

**M. S. KAKADE COLLEGE SOMESHWARNAGAR,  
TAL- BARAMATI, DIST- PUNE-412306**

**PROGRAM OUTCOMES (PO)**

**B.A**

1. Opens doors to a wide range of career options for students across the globe in various sectors like Languages, Historical, Economic, Politics, Defense, Geography,
2. Students can opt for careers in media & advertising, writing & publishing, journalism, public relations, Army, Economists, Land Surveyors, Leaderships, etc.
3. Students can plan their career opportunities in various countries and look for suitable global careers.
4. Students study a variety of spheres like literature, socio-cultural, economic, Geographical and political issues concerning contemporary era.
5. Knowledge of some essential soft skills enhanced their employability.
6. Deserve positions like Editorial and Content Development Positions in Reputed Publication Houses, Journalism – Print and Electronic, Teaching Field, Writer and Publisher, Bloggers/ Critic/ Reviewers etc.
7. Programme like B. A. that is exhaustive program that opens wide-ranging career options for graduate students.
8. They have proud of native cultural experiences and situations in order to develop humane values and social awareness in practical life
9. Students can opt for Career paths the after completing their course B. A. like Public Relations & Advertising in Corporate Houses and Public Sectors.
10. They can get employability in various Corporate Houses and in all fields

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**PROGRAM OUTCOMES (PO)**

**B. Com.**

1. To develop independent logical thinking and facilitate personality development of the students.
2. To equip the students for seeking suitable careers in management and entrepreneurship

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**PROGRAM OUTCOMES (PO)**

**B. Sc.**

1. To do masters in the basic areas of the discipline.
2. To apply their broad knowledge of science across a range of fields, with in-depth knowledge in at least one area of study.
3. To articulate the methods of science and explain why current scientific knowledge is both contestable and testable by further inquiry.
4. To apply appropriate methods of research, investigation and design, to solve problems in science, including the planning and/or conduct of a significant project, problem or investigation.
5. To recognize the need for information; effectively search for, evaluate, manage and apply that information in support of scientific investigation.
6. Employ highly developed conceptual, analytical, quantitative and technical skills and are adept with a range of technologies.
7. To evaluate the role of science, in addressing current issues facing local and global communities, for example climate change, health and disease, food security, sustainable energy use etc.
8. To work effectively in groups to meet a shared goal with people who's disciplinary and cultural backgrounds differ from their own.
9. To communicate clearly and convincingly about science ideas, practice and future contributions to expert and non-expert audiences, matching the mode of communication to their audience.

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**PROGRAM OUTCOMES (PO)**

**BBA (CA)**

- 1) Students will be able to recognize & appreciate the role of computing in a wide variety of activities & application of Modern society, including commerce, education, communication.
- 2) Analyze a given problem and develop an algorithm to solve the problem.
- 3) Demonstrate the basic technicalities of creating word document, creating power point presentation, design spreadsheet for office use.
- 4) Develop the software projects by understanding the client requirement.
- 5) Define fundamental account concept, conventions & terminologies.
- 6) Implement the various programming languages like C, C++, VB. Net, and Java Construct in the right way.
- 7) Able to master the basic concept and understand the database management system.
- 8) Evaluate and analyze the SDLC, understand software design, coding techniques and software testing principle.

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**PROGRAM OUTCOMES (PO)**

**M. A.**

1. Students can opt for careers in media & advertising, writing & publishing, journalism, public relations, Army, Leaderships, etc.
2. Opens doors to a wide range of career options for students across the globe in various sectors like Languages and history departments.
3. Students can plan their career opportunities in various countries and look for suitable global careers.
4. Knowledge of some essential soft skills enhanced their employability.
5. Deserve positions like Editorial and Content Development Positions in Reputed Publication Houses, Journalism – Print and Electronic, Teaching Field, Writer and Publisher, Bloggers/ Critic/ Reviewers etc.
6. Programme like M. A. that is exhaustive program that opens wide-ranging career options for graduate students.
7. They have proud of native cultural experiences and situations in order to develop humane values and social awareness in practical life
8. Students can opt for Career paths the after completing their course M. A. like Public Relations & Advertising in Corporate Houses and Public Sectors.
9. They can get employability in various Corporate Houses and in all fields.

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**PROGRAM OUTCOMES (PO)**

**M. Com.**

1. To equip and train Post Graduate students to accept the challenges of Business World by providing opportunities for study and analysis of advanced Commercial and business methods and processes.
2. To study by students methods of Data collection and their interpretations.
3. To develop among students Communication, Study and Analytical skills.

**M. S. KAKADE COLLEGE SOMESHWARNAGAR,  
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**PROGRAM SPECIFIC OUTCOMES (PSO)**

**B. A. (English)**

1. Opens doors to a wide range of career options for students across the globe
2. Students can opt for careers in media & advertising, writing & publishing, journalism, public relations,
3. Students can plan their higher studies in these countries and look for suitable global careers with transnational corporations.
4. Provide students can opportunity to read and respond to novels, plays, and poetry across different genres.
5. Students study a variety of literature, socio-cultural, and political issues concerning contemporary English.
6. Students can make literary analyses, cultural diversity, critical thinking, and communication skills through the curriculum.
7. B. A. English that is exhaustive program opens wide-ranging career options for the students.
8. Students can opt for Career paths the after completing their course B. A. English like Public Relations & Advertising in Corporate Houses and Public Sectors
9. They can get employability as Language Expert & Translator, Marketing / Strategic Communication Positions in Corporate Houses
10. Deserve positions like Editorial and Content Development Positions in Reputed Publication Houses, Journalism – Print and Electronic, Teaching Field, Writer and Publisher, Bloggers/ Critic/ Reviewers etc.

## PROGRAM SPECIFIC OUTCOMES (PSO)

### B.A. (Marathi)

1. Awareness of life philosophy, contemporarily, behaviour in literature.
2. Increases literary and linguistic comprehension.
3. Different literary types can be understood.
4. Marathi literature, language and culture are closely introduced.
5. Introduces various literary streams in modern Marathi literature.
6. Interest in Marathi language and literature increases.
7. Creates the ability to respond freely to literature.
8. Literary genres are studied in a philosophical manner.
9. Gains knowledge of cultural contexts in literary works.
10. Gains knowledge of literary language and practical language.
11. Writing, Reading, Conversation, Assessment, Testing etc. Linguistic skills develop.
12. Understanding the nature scope origin of Marathi Literature.
13. Acquire overall linguistic competence and communicative skills.
14. Understand native cultural experiences and situations and develop humane value and social awareness.
15. Develop interest in literature story, Drama and poetry.
16. Inculcate moral and human values within themselves.
17. Use their moral and social sense in life.
18. Communicate effectively in various business situations.
19. The verbal and non-verbal skills of communication are developed.
20. Demonstrate skills in oral and written communication sufficient to publish and present work.
21. Compare the strength and limitations of different theories to pursue Research.
22. Know more about Marathi Literature useful, contribution in different level past to present.
23. Making awareness of Marathi knowledge to the society.

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

### **B.A. (HINDI)**

1. Develop Hindi reading & linguistic comprehension of students
2. Develop interest in Hindi literature story and poetry.
3. Inculcate moral and human values within themselves
4. Use their moral and social sense in life.
5. Communicate effectively in various business situations.
6. The verbal and non-verbal skills of communication are developed.
7. Demonstrate skills in oral and written communication sufficient to publish and present work.
8. Demonstrate through service, the value of translation to the academy and community at large.
9. Apply the knowledge for university undergraduate teaching
10. Interact productively with people from diverse backgrounds through journalism
11. Understanding the nature scope origin of Hindi Literature
12. Know more about Hindi Literature useful, contribution in different level past to present.
13. Making awareness of Hindi knowledge to the society.
14. Understanding the nature scope origin of Hindi Literature
15. Know more about Hindi Literature useful, contribution in different level past to present.
16. Closely together, thereby making the society and nation more stronger

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

### **B.A. (HISTORY)**

1. Understand background of our religion, customs institutions, administration and so on.
2. Understand the present existing social, political, religious and economic conditions of the people.
3. Analyze relationship between the past and the present is lively presented in the history.
4. Develop practical skills helpful in the study and understanding of historical events.
  - (a) Draw historical maps, charts, diagrams etc.
  - (b) Prepare historical models, tools etc.
5. Develop interests in the study of history and activities relating to history.
  - (a) Collect ancient arts, old coins and other historical materials;
  - (b) Participate in historical drama and historical occasions;
  - (c) Visit places of historical interests, archaeological sites, museums and archives;
  - (d) Read historical documents, maps, charts etc.
  - (e) Play active roles in activities of the historical organizations and associations; and
  - (f) Write articles on historical topics
6. The study of history helps to impart moral education.
7. Create and awareness about patriotism among the students.

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

### **B.A. (GEOGRAPHY)**

1. The study of Physical Geography helps to gain an insight into the processes of landform development and geomorphic hazards. A possible outcome is that students could be able to minimize the intensity of such hazards and monument of related events.
2. The branches of Human Geography make them capable of identifying the development prerogatives of regions and applying them in formulation of regional development plans.
3. The study of Practical Geography prepares them in the field survey and Planning of region. Students could make outline and map of local region which is very useful in planning and Land use study.
4. Geography introduces the students to the characteristics of soil regions, floral and faunal regions. This holistic knowledge makes them capable of assessing and developing forestry projects, biodiversity conservation plans and probable land use policies of rural areas.
5. Demonstrate knowledge of physical and culture features of the earth and locate them on the map.
6. Know the basic concepts and terminologies used in Geography like interior of the earth, plate tectonic, sea floor spreading, population growth, disasters, composition and structure of atmosphere, hydrosphere, etc.
7. Know about the basic disciplines of Geography and its sub branches.
8. Differentiate between minerals and rock, weather and climate, interior of the earth, basic industries, farming etc.
9. Get information about the causes and the effect of local, national and International problems like global warming, acid rain, ozone depletion, soil Degradation , deforestation etc.
10. Handle topographical and weather maps and interpret them.
11. Identify types of rocks.
12. Know about Geographical Information System (GIS) and Remote Sensing (RS).

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

### **B.A. (POLITICAL SCIENCE)**

1. Understand the contribution of the main traditions of western political thinkers to political thought
2. Understand the processes and dynamics of Indian government and politics. It also familiarize with the vital contemporary emerging issues of centre-state relation, political parties, emergence of new leadership at different levels, demand for autonomy movement, ethnic conflicts etc.
3. Acquaint with the basic concepts, principles and dynamics of public administration.
4. Familiarize with important theories and issues of international relations.
5. Understand the basic concept and ideological orientations of political science discipline.
6. Understand the contribution of the main traditions of Indian Political Thought.
7. An understanding the evolution, development and trends of India's foreign policy.
8. Acquaint with the basics of International Law and the new trends in the realm of International law.
9. Understand the basic concept and issues concerning human rights and challenges.
10. Understand the women's issues and problems.
11. Familiarize with the problems and prospects of rural development of India.
12. Understand the cultural, social, political, economic and constitutional environment as a historical perspective of Indian Administration.

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

### **B.A. (DEPARTMENT OF DEFENSE AND STRATEGIC STUDIES)**

1. This Programme helps to students for Create about Patriot.
2. This Programme help to Student for understanding the Defense Organization of India.
3. This Programme Create awareness among Students about National Security.
4. This Programme create awareness among the Students about Military Geography.
5. This Programme helps to Students for understanding about Chhatrapati Shivaji Maharaj as a Nation builder and his Guerrilla Strategy , Tactics.
6. This Programme helps to understands for International and Regional Organization.
7. This Programme create awareness among the Students about
8. Defense Budget of India.

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

### **B.A. (ECONOMICS)**

1. Understanding the efficiency and equity implications of market interference, including government policies.
2. To introduce the students with development of banking and financial system in India
3. To study the market-consumer relationship
4. Developing research knowledge in economics.
5. To study the basic concepts in macroeconomics like money, employment, public finance, etc.
6. Developing the skill of data collection & use of sampling techniques in research.
7. Developing the knowledge about theories of economic growth & Development and issues of economic planning.
8. Creating awareness about changing macro-economic policies and theories.
9. To introduce the students with different economic thoughts
10. To introduce the students with foreign trade policies
11. Economics is the study of how societies, governments, businesses, households and individuals allocate their scarce resources.
12. This discipline has two important features. First, it helps to develop conceptual models of behavior to predict responses to changes in policy and market conditions. Second, rigorous statistical analysis is used to investigate these changes.
13. Economists are well known for advising the government on economic issues, formulating policies at the Reserve Bank of India and analyzing economic conditions for investment banks, brokerage houses, real estate companies, and other private sector businesses. They also contribute to the development of many other public policies including health care, welfare, and social reform and efforts to reduce inequality, pollution and crime.

## PROGRAM SPECIFIC OUTCOMES (PSO)

<b>Program Specific Outcomes : B. Com. (Banking &amp; Finance)</b>
<ol style="list-style-type: none"><li>1. Student understood the concept, structure and functioning Indian Banking System.</li><li>2. Students got knowledge about Banking business and regulating authorities of banking business.</li><li>3. Students got information about evolution of Banking and banking business policies of Banks and government.</li><li>4. Student obtained knowledge about role of Banking in economic development of India.</li><li>5. Students got awareness about International Banking business and its effects of Indian Banking Business.</li></ol>

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

<b>Program Specific Outcomes : B. Com. (Marketing Management)</b>
<ol style="list-style-type: none"><li>1. Students understood the concept and functions of marketing planning and sales management.</li><li>2. Students got knowledge about marketing strategies and organization</li><li>3. Students got information about various facets of marketing with regulatory aspects.</li><li>4. Students understood marketing in globalize scenario.</li><li>5. Students obtained knowledge regarding the concepts of Marketing Research.</li><li>6. Students understood the role of Brand and Distribution of production including Management in marketing.</li><li>7. Students understood the basic concepts related to Marketing, Management, Productivity and Economic Development.</li><li>8. Students obtained knowledge about the importance of control on marketing activities.</li></ol>

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

<b>Co-operation and Rural Development (M.Com)</b>
<ol style="list-style-type: none"><li>1. Student got knowledge about Co-operation in detail.</li><li>2. Students got knowledge about role of cooperation in rural development in detail.</li><li>3. Student understood the importance of Cooperation in business world.</li><li>4. Students understood the importance of cooperative act in social and economic development.</li><li>5. Students got full knowledge evolution of cooperative movement worldwide.</li><li>6. Students got full knowledge about State cooperative act and its functioning.</li></ol>

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

<b>Advanced Accounting &amp; Taxation (M.Com)</b>
<ol style="list-style-type: none"><li>1. Student got knowledge about Accounting in detail.</li><li>2. Students got knowledge about Taxation in detail.</li><li>3. Student understood the importance of Accounting in corporate world.</li><li>4. Students understood the importance of Taxes for corporate world and government.</li><li>5. Students got full knowledge about Income Tax Act, 1961.</li><li>6. Students got full knowledge about Accounting Standards.</li><li>7. Students aware about importance of Accounting &amp; Taxation.</li></ol>

## **PROGRAM SPECIFIC OUTCOMES (PSO)**

### **B.SC. (CHEMISTRY)**

1. To have post graduate education in chemistry after B.Sc. Chemistry.
2. To use modern library search tools to locate and retrieve scientific information about a topic, chemical, chemical technique, or an issue relating to chemistry.
3. To understand the objective of their chemical experiments, properly carry out the experiments, and appropriately record and analyze the results.
4. To use standard laboratory equipment, modern instrumentation, and classical techniques to carry out experiments.
5. To follow the proper procedures and regulations for safe handling and use of chemicals.
6. To communicate the concepts and results of their laboratory experiments through effective writing and oral communication skills.
7. To pursue their career objectives in advanced education in professional and in a scientific career in government or industry, in a teaching career in the school systems, or in a related career following graduation.

### **B.SC. (BOTANY)**

1. Students acquire fundamental Botanical knowledge through theory and practical's, as well as to explain basis plant of life, reproduction and their survival in nature
2. To enrich knowledge through problem solving, minor/major projects, seminars, tutorials, review of research articles/papers, participation in scientific events, study visits.
3. Helped to understand role of living and fossil plants in our life.
4. To create awareness about cultivation, conservation and sustainable utilization of biodiversity
5. To know advance techniques in plant sciences like tissue culture, Peyote mediation, plant disease management, formulation of new herbal drugs etc.
6. Students able to start nursery, mushroom cultivation, bio fertilizer production, fruit preservation and horticultural practices.
7. To help students to build-up a progressive and successful career in botany

## PROGRAM SPECIFIC OUTCOMES (PSO)

### **B.SC. (MICROBIOLOGY)**

1. For a graduate degree holder in Microbiology subject, the pharma/ Healthcare sector can provide you several opportunities, in various departments, such as Quality control Microbiology, and Quality Assurance.
2. As a QC microbiologist in a pharma company, you will be involved in analyzing the quality of final products, raw materials, water quality, etc.
3. As a Quality assurance executive, you will be involved in managing records, preparation of reports based on your observations, and implementation of safety procedures for testing in order to ensure final products meet the highest standards.
4. Since the final products of every pharmaceutical company are mainly related to the public health and overall well-being which demands detailed monitoring and assessment of every step.
5. A graduate degree in microbiology can provide you opportunities in other sectors also like, private and government hospitals, technicians in private laboratories, forensic science laboratories, environmental management organizations, educational institutions, food processing industry, Dairy industry, Alcohol, and beverage industry, Agricultural departments, and Bioprocess industry.

### **B.SC.( MATHEMATICS)**

- 1) Think in a critical manner.
- 2) Know when there is a need for information, to be able to identify, locate, evaluate, and effectively use that information for the issue or problem at hand.
- 3) Formulate and develop mathematical arguments in a logical manner.
- 4) Acquire good knowledge and understanding in advanced areas of mathematics and software like maxima, chosen by the student from the given courses.
- 5) Understand, formulate and use quantitative models arising in social science, Business and other contexts.

## PROGRAM SPECIFIC OUTCOMES (PSO)

### **B.SC. (STATISTICS)**

- 1) Statistics is the language of the uncertainties riddled modern information age.
- 2) This program is a compact combination of detailed course of statistics and adequate amount of courses on computer science, mathematics and operation research to compliment & offer diversification after the completion of program.
- 3) The growth & development of child & adolescents.
- 4) Theoretician foundations of knowledge & curriculum.

### **B.SC. (PHYSICS)**

1. To foster scientific attitude, provide in-depth knowledge of scientific and technological concepts of Physics.
2. To enrich knowledge through problem solving, minor/major projects, seminars, tutorials, review of research articles/papers, participation in scientific events, study visits.
3. To familiarize with recent scientific and technological developments.
4. To create foundation for research and development in Physics.
5. To help students to learn various experimental and computational tools thereby developing analytical abilities to address real world problems.
6. To train students in skills related to research, education, industry, and market.
7. To help students to build-up a progressive and successful career in Physics.

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**COURSE OUTCOMES (CO)**

**DEPARTMENT OF ENGLISH**

<b>Course Outcome-B.A</b>		
<b>Class</b>	<b>Course Title</b>	<b>Outcomes</b>
<b>F.Y.B.A</b>	<b>Compulsory English Title of the Paper: Literary Gleam: An Anthology of Prose and Poetry</b>	<ol style="list-style-type: none"> <li>1. Read the best examples of prose and poetry in English</li> <li>2. Realize the beauty and communicative power of English</li> <li>3. Instill human values themselves and develop the character of a responsible citizens of the world</li> <li>4. Develop the ability to appreciate ideas and think critically</li> <li>5. Enhance employability of themselves by developing their linguistic competence and communicative skills</li> <li>6. Reinforce structures already learnt in the previous stages of learning.</li> <li>7. Learn a lot of new English words which enriched their existing vocabulary of the English language.</li> <li>8. Understand how English language can be used for very beautifully for creative purposes</li> <li>9. Develop overall linguistic competence and communicative skills.</li> </ol>
	<b>Optional English- Title of the Paper: Initiations: Minor Literary Forms &amp; Basics of Phonology</b>	<ol style="list-style-type: none"> <li>1. Learn the basics of literature and language and develop an integrated view about language and literature in themselves</li> <li>2. Acquaint themselves with minor forms of literature in English and will appreciate the creative use of language in literature</li> <li>3. Learn the basics of phonology of English so that they can pronounce English words in a better way and speak the language fluently and correctly</li> <li>4. Get ready for detailed study and understanding of literature and language</li> <li>5. Enhance the job potential of students by improving their language skills</li> <li>6. Use the knowledge of different types of literature, literary devices and literary terms for higher</li> </ol>

		<p>studies in literature.</p> <ol style="list-style-type: none"> <li>7. Improve the pronunciation of English language through some topics on phonetics and phonology</li> <li>8. Develop confidence regarding phonetic and creative use of English for different purposes.</li> </ol>
<b>F. Y. B. Com</b>	<b>Compulsory English- Prescribed Text: Success Avenue</b>	<ol style="list-style-type: none"> <li>1. Students read and write relevant and practically helpful pieces of prose and poetry in their leisure time</li> <li>2. Understand the beauty and communicative power of English and its practical application in their daily lives</li> <li>3. Understand and involve the contemporary socio-economic and cultural situation around to them</li> <li>4. They use oral and written communication skills effectively in their practical lives</li> <li>5. Make ready for employability to get bread and butter</li> <li>6. developed overall linguistic competence and communicative skills</li> <li>7. Make independent thinking and take their own decisions in their lives</li> <li>8. Read newspapers, Success stories of Entrepreneurs and motivate themselves</li> <li>9. Walk with confidence and responsible citizens in the society</li> <li>10. Cooperate and aware the other people in society for the welfare of the Human Beings.</li> </ol>
<b>F. Y. B. Com</b>	<b>Course: Additional English- Prescribed Text: Pearls of Wisdom (Board of Editors- Orient Black Swan)</b>	<ol style="list-style-type: none"> <li>1. To develop the students' interest as a student of Commerce and make them think on business, finance and commercial facts and philosophy of Commerce.</li> <li>2. To expose students to the best examples of literature in English and to contribute to their emotional as well as independent thinking.</li> <li>3. To develop linguistic competence and communication skills in English.</li> <li>4. To develop competence in using English for the career of their choice.</li> <li>5. To enhance skills required for their placement.</li> <li>6. To develop effective communication skills by developing ability to use right words in the right context.</li> <li>7. To enhance employability of the students by</li> </ol>

		<p>developing their basic soft skills.</p> <ol style="list-style-type: none"> <li>8. To develop literary Sensibility and sense of cultural diversity in students.</li> <li>9. To develop overall personality of the students.</li> <li>1. 10. To develop learner's interest in reading literary pieces.</li> </ol>
<b>S. Y. B. A.</b>	<p><b>Discipline Specific Course (DSC-1A)</b>  <b>- Title of the Paper:</b>  Appreciating Drama</p>	<ol style="list-style-type: none"> <li>1. Students watch drama practically with interest and understand its theoretical aspects and practical demonstration on stage</li> <li>2. students analysis the drama and its performing dimensions practically</li> <li>3. They are familiarize with the elements and all types of Drama</li> <li>4. They read and watch masterpieces of English Drama from different parts of the world with interest and make review independently in practical life</li> <li>5. They appreciate and analyze drama independently in the contemporary period</li> <li>6. students' are able to discuss on the aesthetics of Drama and empowered to evaluate drama independently</li> <li>7. They understand all the Literary Elements: Theme, Plot, Characters, Diction, Conflict, Setting etc. While watching actual drama</li> <li>8. They make analysis of all Theatrical Elements: Stage directions, Light effects, Music, Costumes, Stage property, Makeup etc.</li> <li>9. They actively participate in the One-act-play, Satire, Street play, a short Radio play, Jokes etc. in their practical lives.</li> </ol>
<b>S. Y. B. A.</b>	<p><b>Skill Enhancement Course-(SEC-2A)-</b>  “Mastering Communication Skills”</p>	<ol style="list-style-type: none"> <li>1. Students use the skill of English for everyday communication</li> <li>2. Students are acquainted the with the verbal and nonverbal communication skills</li> <li>3. They get opportunities and exposure for speaking in various contexts</li> <li>4. They are acquainted and familiarized with various soft skills</li> <li>5. Developed interest among the students to interact in English in their practical lives</li> <li>6. They are ready for employability to get bread and butter</li> </ol>

		<ol style="list-style-type: none"> <li>7. Students use Conversation in various situations like joining and Leaving Accepting/Declining Invitations, asking /Giving/Refusing Permission</li> <li>8. They use the Digital Literacy like CALL- Computer-assisted Language Learning &amp; MALL- Mobile-assisted Language Learning for effective communication and Project Presentation.</li> </ol>
	<p><b>Values and Skills through Literature</b> (Board of Editors- Orient Black Swan) Course: Compulsory English</p>	<ol style="list-style-type: none"> <li>1. To develop effective communication skills by developing ability to use right words in the right context.</li> <li>2. To expose students to the best examples of literature in English and to contribute to their emotional as well as independent thinking.</li> <li>3. To develop linguistic competence and communication skills in English.</li> <li>4. To develop competence in using English for the career of their choice.</li> <li>5. To enhance skills required for their placement.</li> <li>6. To use English effectively in the career of their choice.</li> <li>7. To enhance employability of the students by developing their basic soft skills.</li> <li>8. To develop literary Sensibility and sense of cultural diversity in students.</li> <li>9. To develop overall personality of the students.</li> <li>10. To revise and reinforce the learning of some important areas of grammar for better linguistic competence.</li> <li>11. To develop learner's interest in reading literary pieces.</li> </ol>
	<p><b>Course:</b> <b>Discipline Specific Course (DSC-2A) (Old Special Paper-II)</b> <b>Title of the Paper:</b> <b>Appreciating Poetry</b> <b>Prescribed Text: Mirage: An Anthology</b></p>	<ol style="list-style-type: none"> <li>1. To understand and learn the basics of poetry through its theory and the practical application of some of the terms related to poetry.</li> <li>2. To understand and learn the different cultural aspects from different nationalities and cultures through poems.</li> <li>2. To acquaint students with the terminology in poetry criticism.</li> <li>3. To encourage students to make a detailed study of a few sample masterpieces of English poetry.</li> <li>4. To enhance students' awareness in the aesthetics of poetry and to empower them to read, appreciate and critically evaluate poetry</li> </ol>

	<p><b>of English Poetry (Board of Editors-Orient Black Swan)</b></p>	<p>independently.</p> <ol style="list-style-type: none"> <li>5. To become familiarize and to create analytical thinking of the poets such as William Shakespeare, Philip Sydney, John Donne, William Blake, Emily Dickinson, John Clare, Rabindranath Tagore, Judith Wright, Maya Angelou.</li> <li>6. To exercise verbal as well as nonverbal communication effectively for their career.</li> <li>7. To develop literary Sensibility and sense of cultural diversity in students.</li> <li>8. 9. To develop overall personality of the students.</li> </ol>
	<p><b>Discipline Specific Course- Title of the Paper: Advanced Study of English Language</b></p>	<ol style="list-style-type: none"> <li>1. Master various components of language</li> <li>2. Develop overall linguistic competence of themselves</li> <li>3. Comprehend advanced areas of language study.</li> <li>4. Make preparation for detailed study and understanding of language.</li> <li>5. Enhance communicative skills of students by developing insight into the working of language</li> <li>6. Enhance the job potential of students by improving their language skills</li> <li>7. Improve the pronunciation of English language through some topics on phonetics and phonology</li> <li>8. Develop confidence regarding phonetic and creative use of English for different purposes</li> </ol>
<p><b>T. Y. B. A</b></p>	<p><b>Compulsory English Prescribed Text: Exploring New Horizons</b></p>	<ol style="list-style-type: none"> <li>1. Students are familiarized with some excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of English.</li> <li>2. Students are able to become competent and effective users of English in real life situations.</li> <li>3. Overall personality of the students is developed</li> <li>4. Inculcated humanitarian values and foster sympathetic attitude in the students.</li> <li>5. Students are trained in practical writing skills required in work environment.</li> <li>6. Knowledge of some essential soft skills enhanced their employability.</li> <li>7. students are acquainted with different cultures in the outside world</li> <li>8. Improved the linguistic and communicative abilities of the students.</li> </ol>

		<ol style="list-style-type: none"> <li>9. Developed caring attitude in our students and make them better human beings.</li> <li>10. Students are confident and enable to face the real life challenges successfully.</li> <li>11. Due to Linguistic competence they are achieving success in almost all the fields of life.</li> </ol>
<b>T. Y. B. A</b>	<p><b>Discipline Specific Elective (DSE-2C &amp; DSE-2D) (Old S-4) (w. e. f. 2021-2022)</b></p> <p><b>Title of the Paper:</b> Introduction to Literary Criticism</p>	<ol style="list-style-type: none"> <li>1. Students understand the basics of literary criticism</li> <li>2. They are also aware of the nature and historical development of criticism</li> <li>3. They are familiarized with the significant critical approaches and terms and they can apply while reading the texts</li> <li>4. Students interpret literary works in the light of the critical approaches</li> <li>5. Developed aptitude for critical analysis</li> <li>6. Students have different views, perspectives, approaches and terms and they understand literature in its diverse forms.</li> <li>7. They can do the self-interpretation, judgment, analysis and evaluation of literature.</li> <li>8. Students understand Forms and contents of literature, structures and substance of literature.</li> </ol>
<b>T. Y. B. A</b>	<p><b>Skill Enhancement Course (SEC 2-C &amp; SEC 2-D) (w. e. f. 2021-2022)</b></p> <p><b>Title of the Paper:</b> Mastering Life Skills and Life Values</p>	<ol style="list-style-type: none"> <li>1. Students understand the social skills and interpersonal skills</li> <li>2. They developed self-confidence and can communicate effectively</li> <li>3. Students understand and think critically in practical lives</li> <li>4. They make plan to stress management and positive thinking in daily lives</li> <li>5. Students leadership qualities are shown through their involvement in practical lives</li> <li>6. Students are sensitive about the universal human values in the society</li> <li>7. Developed overall personality of the students</li> <li>8. They actively participates in monitoring, Projects, Seminars, Presentations, Group Discussions.</li> </ol>
	<p>Course: Optional English General Paper-3 (w. e.</p>	<ol style="list-style-type: none"> <li>1. To understand and familiarized with the Indian English poetry.</li> <li>2. To understand excellent pieces of poetry in English so that they expound the beauty and</li> </ol>

	<p>f. 2015-16)  Title of the Paper:  Advanced Study of English Language and Literature  Prescribed Text:  1) A Collection of Indian English Poetry –(Ed. Radha Mohan Singh, Orient Blackswan)  2) Linguistics: An Introduction- (Ed. Board of Editors, Orient Blackswan)</p>	<p>communicative power of English in their personal life.  3. To understand the use of English in different careers.  4. To develop competence in using English for the career of their choice.  5. To enhance skills required for their placement.  6. To become sensitized about levels of linguistic analysis, phonology, morphology, syntax, semantics and discourse analysis.  7. To exercise verbal as well as nonverbal communication effectively for their career.  8. To develop literary Sensibility and sense of cultural diversity in students.  9. To develop overall personality of the students.</p>
	<p><b>Discipline Specific Elective (DSE-1C&amp; DSE-1D)- Title of the Paper: Appreciating Novel</b></p>	<ol style="list-style-type: none"> <li>1. Understand the basics of novel as a literary form, the historical development and nature of novel.</li> <li>2. Comprehend different types and aspects of novel.</li> <li>3. Develop literary sensibility and sense of cultural diversity.</li> <li>4. Increase their knowledge about human life and its stark realities by reading the prescribed novels in the paper.</li> <li>5. Inculcated in themselves strong literary sensibility and sense of cultural diversity in the world.</li> <li>6. Read the prescribed novels students also read other novels of the same and few other authors.</li> <li>7. Develop the skills and competence of the English language by reading these novels</li> <li>8. Develop habits of reading lengthy books may try to write a novel themselves.</li> </ol>

**DEPARTMENT OF MARATHI**

<b>Class</b>	<b>Course</b>	<b>Course Code</b>	<b>Course Outcomes</b>
FYBA	Marathi Sahitya :Kath Ani Bhashik Kaushalyevikas & Marathi Sahitya :Ekankika Ani Bhashik Kaushalyevikas	11021A & 11022A	<p><b>Sem – 1 &amp; Sem-2</b></p> <ol style="list-style-type: none"> <li>1. Get introduced to Marathi literature, language and culture.</li> <li>2. Create interest in Marathi literature.</li> <li>3. Develop the literary taste.</li> <li>4. Develop the literary taste.</li> <li>5. Connect literature to real life experience.</li> <li>6. Understand various branches and movements of Marathi literature.</li> <li>7. Develop linguistic skills to meet the requirements in the age of globalization.</li> </ol>
FYBCOM	Bhasha, Sahitya Ani Kaushalyevikas & Bhasha, Sahitya Ani Kaushalyevikas	117 & 127	<p><b>Sem – 1 &amp; Sem-2</b></p> <ol style="list-style-type: none"> <li>1. The students got knowledge of language transactions in various fields.</li> <li>2. Skills in the use of various regional Marathi languages were developed.</li> <li>3. Thoughts of the work of a competent person in various fields.</li> <li>4. Ethical, professional and ideological values were nurtured in the students.</li> </ol>
SYBA	CC-1C Bhashik Kaushalyvikas Ani Adhunik Marathi Sahitya-Rarangdhang Novel CC-1D Bhashik Kaushalyvikas Ani Adhunik Marathi Sahitya-Sahityarang Lalitgadhyia	23023 & 24023	<p><b>Sem – 1</b></p> <ol style="list-style-type: none"> <li>1. Understood the novel format and elements. Learned the type of novel and the journey.</li> <li>2. The students listened to the lecture on the novel Rarangdhang on YouTube. And she tried to understand the novel.</li> <li>3. The students participated in a workshop on the novel Rarangdhang.</li> <li>4. Students participated in the online hours taken on this course.</li> <li>5. The students tried to understand the nature and elements of fine prose, types of fine prose and movement.</li> </ol> <p><b>Sem –2</b></p> <ol style="list-style-type: none"> <li>1. Studybook Sahityarang, Editor Prof. Dr. Shirish Landage, Pro. Dr. Dilip Pawar, Prof. Dr. Jaya Kadam Aksharwadmay Prakashan, Pune.</li> </ol>

			<p>The students listened to the audio recording of this book.</p> <p>2. Through online tasik, the students explained the fine articles in the book Sahityarang. Students practiced multiple choice questions based on the syllabus.</p>
SYBA	<p>MIL-2 Marathi Language Communication Skills &amp; MIL-2 Marathi for New Media and Social Media( Navmadhyame Ani Samajmadhyam ansathi Lekhan)</p>	23011 & 24011	<p><b>Sem – 1</b></p> <ol style="list-style-type: none"> <li>1. Understood the correlation between language and personality development.</li> <li>2. Life in a democracy and the media explained the correlation between them.</li> <li>3. Writing for the media, he wrote several video clips for the newspaper, including news writing and print editing for the newspaper, codification of the speech for the airwaves, and codification for the documentary for the television.</li> </ol> <p><b>Sem- 2</b></p> <ol style="list-style-type: none"> <li>1. Explained the concepts of language, life practices and new media, social media.</li> <li>2. Studied new media and types of social media, blogs, Face book.</li> <li>3. New media and social media literacy, Understood the uses and consequences.</li> <li>4. Practiced writing and professional correspondence for websites and blogs, Twitter.</li> <li>5. Students practiced multiple choice questions based on this syllabus.</li> </ol>
SYBA- S1	<p>DSE-IA (S-1) Autobiography - Prakashwata DSE 1B (S-1) Madhyayugin Marathi Sahitya- Nivdak Madhyayugin Granth</p>	23021 & 24021	<p><b>Sem –1</b></p> <ol style="list-style-type: none"> <li>1. Understand aspects of Biography and Autobiography.</li> <li>2. Develop ability to appreciate and evaluate selected Biographies and Autobiographies in modern Marathi Literature.</li> <li>3. Autobiographical concepts, format inspiration and movement Understood.</li> <li>4. Tried to understand the uniqueness of autobiography compared to other literary genres in fine prose.</li> </ol> <p><b>Sem -2</b></p> <ol style="list-style-type: none"> <li>1. Selected Medieval Prose, Editor Prof. Dr. Shirish Landage, Prof. Dr. Prabhakar Desai, Prof. Dr. Prakash Shewale listened to the audio recording of the book.</li> </ol>

			<p>2. The students explained the articles in this book through online Lecturer.</p> <p>3. Students practiced multiple choice questions based on the syllabus.</p>
SYBA	<p>DSE-2A Sahity Vichar (S-2)</p> <p>DSE 2B Sahity Samiksha (S-2)</p>	<p>23092 &amp; 24092</p>	<p style="text-align: center;"><b>Sem-1</b></p> <p>1. Understood the nature and purpose of literature.</p> <p>2. Understood the production process and language of literature.</p> <p>3. Tastes developed to enjoy literature.</p> <p>4. Understood the interrelationship between literature and society.</p> <p>5. Understood the concept of literature type.</p> <p>6. Understand the nature and function of literature.</p> <p>7. Understand the nature of the process of literary creation and the concept of Literary genus.</p> <p style="text-align: center;"><b>Sem-2</b></p> <p>1. Understand the basics of literary criticism.</p> <p>2. Comprehend the nature and historical development of criticism.</p> <p>3. Ability to interpret literary works in the light of the critical approaches.</p> <p>4. Get familiar with the significant critical approaches and terms</p>
SYBA	<p><b>Skills based courses</b></p> <p>SEC-2A Prakashan Vyvahar &amp; SEC- 2B Upyojit Lekhan Kaushalye</p>	<p>23025 &amp; 24025</p>	<p style="text-align: center;"><b>Sem-1</b></p> <p>Publishing and editing [SEC 2 A]</p> <p>1. Acquired the necessary skills for publishing and editing.</p> <p>2. Gained knowledge of the training required for publishing and editing.</p> <p>3. Visited publishing houses, advertising agencies, printing presses, newspaper offices, distribution agencies, bookstores, flex production centres, newsmen and learned how to get training.</p> <p style="text-align: center;"><b>Sem-2</b></p> <p><b>Applied Writing Skills [SEC 2 B (2)]</b></p> <p>1. Understood the skills required for advertising, interview writing and editing.</p> <p>2. Understood the need for training required for</p>

			<p>advertising, interview writing and editing.</p> <p>3. It was realized that it is necessary to acquire deployment skills along with demonstrations for advertising, interview writing and editing.</p>
TYBA	Adhunik Marathi Sahitya Ani Vyaharik Va Upyojit Marathi (G-3)	3027	<p>1. Understood the importance and nature of text examination.</p> <p>2. Various types of modern Marathi literature were introduced.</p> <p>3. Increased ability to enjoy literature by developing an interest in literature.</p> <p>4. Understood the philosophical structure of literary essays like 'Essay' and 'Travel Description'.</p>
TYBA	Sahityavichar (S-3)	3028	<p>1. Understood the nature and purpose of literature.</p> <p>2. Understood the production process and language of literature.</p> <p>3. Tastes developed to enjoy literature.</p> <p>4. Understood the interrelationship between literature and society.</p> <p>5. Understand the nature and function of literature.</p>
TYBA	Varnanatmak Ani Eaitihasik Bhashavidnyan (S-4)	3029	<p>1. The student realized the importance of language study.</p> <p>2. Demonstrations aroused interest in the study of language.</p> <p>3. Explaining the new concepts used in the study of language created interest in student project writing.</p> <p>4. Get introduced to descriptive &amp; Historical linguistics.</p> <p>5. Know the importance of language in human life.</p> <p>6. Know the various methods to the study of language.</p>
MA I	Bhashavyahar Ani Bhashik Kaushalye Bhag-1	10401	<p>1. Students became aware of the linguistic skills required for personality development.</p> <p>2. Students got theoretical and practical knowledge of translation and translation process.</p> <p>3. The students became aware of the interview technique and interviewed the author directly.</p> <p>4. Students write applications for different places themselves.</p>

			<p>5. The students understood the nature of the publishing business as well as how the business is run.</p> <p>6. Students became aware of how to write in Marathi standard language.</p>
MA I	Marathi Sahityacha Etahas(1800to 1920)	10402	<p>1. Concept of (text based) Marathi novel &amp; short stories of modern era.</p> <p>2. Know the brief literature in same period.</p> <p>3. Understanding of development of Marathi novels and short stories.</p> <p>4. Differentiation and departure points of Marathi novels and short stories.</p> <p>5. Get information about the Novel and Story Literature.</p> <p>6. Study the literary trends of Marathi short stories.</p>
MA I	Eaitihasik Bhashavidnyan	10403	<p>1. Ability to understand the development of Marathi language &amp; Linguistics.</p> <p>2. Understanding of Marathi language &amp; Linguistics.</p> <p>Differentiation and departure points of Marathi language &amp; Linguistics.</p> <p>1.Ability to think about Marathi language &amp; Linguistics.</p> <p>2.Ability to understand the development of Marathi language of Aadikal &amp; Madhyakaal.</p> <p>3.Understanding of History of Marathi language of Aadikaal and Madhyakaal.</p> <p>4.Differentiation and departure points of Marathi language of Aadikaal and Madhyakaal.</p> <p>5.Time framing ability of Aadikaleen and Madhyakaleen Marathi language Develop the language skill.</p>
MA I	Gramin Sahity	10404	<p>1. Students understood how rural literature was created after the post-independence period.</p> <p>2. Students understood the nature and function of rural literature.</p> <p>3. The students got knowledge about the development of various genres in rural literature.</p> <p>4. Understood the contribution of rural literature to the students and how it was developed.</p>

MA I	Bhashavyahar Ani Bhashik Kaushalye Bhag-2	20401	<ol style="list-style-type: none"> <li>1. Acquiring Linguistic Skills for Personality Development.</li> <li>2. To provide theoretical and practical information about translation and translation process.</li> <li>3. To give theoretical and practical information of statement skills.</li> <li>4. Explain the need for public relations skills and adopt techniques for their use</li> <li>5. Students became aware of the linguistic skills required for personality development.</li> <li>6. The students got theoretical and practical knowledge of translation and translation process</li> <li>..</li> <li>7. The students became aware of the narrative skills.</li> </ol>
MA I	Marathi Sahityacha Etahas(1920 to 1960)	20402	<ol style="list-style-type: none"> <li>1. Develop the views of Literary Review.</li> <li>2. Develop the language skill.</li> <li>3. Able to critically interact with others about different aspects of Literature.</li> <li>4. Get acquainted to the major Marathi writers and their works from 1818 to 1960.</li> <li>5. Get introduced to the nature, source and types of Marathi literature from 1818 to 1960.</li> </ol>
MA I	Samajbhashavid nyan	20403	<ol style="list-style-type: none"> <li>1. Know the various methods to the study of Social language.</li> <li>2. Understand the communication process and method.</li> <li>3. Develop knowledge of Marathi Linguistics &amp; Grammar.</li> <li>4. Able to understand the origin and development of Marathi language.</li> <li>5. Know the importance of language in human life.</li> <li>6. Know the various methods to the study of language.</li> <li>7. Understand the communication process and method.</li> <li>8. Understand the meaning, concept, characteristics, kinds, development of a language.</li> </ol>
MA I	Dalit Sahitya	20404	<ol style="list-style-type: none"> <li>1. The students understood the reasons for the creation of Dalit literature and its tradition after the post-independence period.</li> <li>2. Students understood the nature of Dalit</li> </ol>

			<p>literature and the nature of rebellion.</p> <p>3. The students became aware of the various literary genres created in Dalit literature and how they developed.</p>
MA II	Prasarmadhymansathi Lekhankaushlye Bhag-1	30401	<p>1. The students acquired writing skills in the fields of media worm journalism, development journalism, news writing, reportage etc.</p> <p>2. Students understood the importance of media in today's world.</p> <p>3. The students developed the linguistic ability required to get the opportunity of service in the visual and audio media.</p>
MA II	Sahityasamiksha	30402	<p>1. Explained the tradition of Marathi literature critics and researchers to the students.</p> <p>2. Developed vision and ability to review in students.</p> <p>3. Convince students of the nature and importance of interdisciplinary research.</p> <p>4. Developed the vision and ability to do research in students.</p> <p>5. Ability to think about the development of Indian poetics.</p> <p>6. Know the importance of criticism.</p>
MA II	Nemlelya Madhyayugin Sahitykrutincha Abhyas	30403	<p>1. He noticed the concepts and forms of literature in the medieval period</p> <p>2. Learned the features of literary works The literary garden of literature studied the value of life.</p> <p>3. Discovered the period and the contract for the creation of literary works.</p>
MA II	Loksahityachi Multattve Ani Marathi Loksahity	30405	<p>1. Students understood the concept of folklore, epistemology, folk and literature.</p> <p>2. While studying folklore, the students noticed the comprehensiveness and Comprehensiveness of folklore.</p> <p>3. The social, religious, cultural awareness of folklore became clear to the students.</p>
MA II	Prasarmadhymansathi Lekhankaushlye Bhag-2	40401	<p>1. The students acquired writing skills in the field of news coverage of relevant events in media, news coverage in nature and environment context and news coverage on folk art.</p> <p>2. Students understood the importance of advertising writing in today's world media.</p>

			3. Students understand how to write screenwriting and writing according to the type of literature in the media as well as service opportunities in this field.
MA II	Sahityasanshodhan	40402	<ol style="list-style-type: none"> <li>1. Informed the students about the research concept and form of motivation, purpose type and its requirements.</li> <li>2. Identify appropriate research topics.</li> <li>3. Select and define appropriate research problem and parameters</li> <li>4. Prepare a project proposal (to undertake a project)</li> <li>5. Organize and conduct research (advanced project) in a more appropriate manner</li> <li>6. Write a research report and thesis Understand the way to Analyses a research problem systematically.</li> <li>7. Comprehend the various aspects of research procedure.</li> <li>8. Gain deep knowledge in the technical aspects of writing a Project.</li> </ol>
MA II	Nemlelya Madhyayugin Sahitykrutincha Abhyas-2	40403	<ol style="list-style-type: none"> <li>1. The students were introduced to the concept of literature in modern times.</li> <li>2. Learned the features of literature.</li> <li>3. Students shared information about the literary value and life value of literature.</li> <li>4. Explain to the students what the characteristics of modern literature types are.</li> <li>5. The students explored the period and the connection between the creation of literary works.</li> </ol>
MA II	Loksahityachi Multattve Ani Marathi Loksahity-2	40405	<ol style="list-style-type: none"> <li>1. Know the co-relation between folk literature and other branches.</li> <li>2. Know the concept of folk literature.</li> <li>3. Know the tradition of folk literature in India.</li> <li>4. Know the new trends in the study of folk literature in new era.</li> <li>5. Students understood the nature of folklore and the meaning, language, composition, region, type and artistic beauty of folklore.</li> <li>6. The students understood the tradition of scholars in Marathi folklore as well as the breadth and inclusiveness of folklore.</li> </ol>

**DEPARTMENT OF HINDI**

<b>Class</b>	<b>Course</b>	<b>Course Code</b>	<b>Course Outcomes</b>
FYBA	Vaikalpik Hindi Prashnapatra I A & IIA	11091B & 11092B	<ol style="list-style-type: none"> <li>1. Understanding the nature scope origin of Hindi Literature</li> <li>2. Know more about Hindi Literature useful, contribution i different level past to present.</li> <li>3. Making awareness of Hindi knowledge to the society.</li> <li>4. Benefits of getting employment opportunities such as the Hindi officers, Translators, manager, teacher and lecturer and so on.</li> </ol>
FYB.Co m	Vaikalpik Hindi Prashnapatra I A & IIA	117 C & 127 C	<ol style="list-style-type: none"> <li>1. Develop Hindi reading &amp; linguistic comprehension of students</li> <li>2. Develop interest in literature story and poetry.</li> <li>3. Inculcate moral and human values within themselves</li> <li>4. Understand the types of Short Story Writing in Hindi.</li> <li>5. Develop Reading, Writing &amp; Communication skills in Hindi</li> <li>6. Develop knowledge of literary forms Hindi poetry.</li> <li>7. Understand the basic forms of story and Poetry in Hindi.</li> <li>8. Learn values through literary works in Hindi.</li> </ol>
SYBA	MIL-2 Hindi Bhasha Shikshan MIL-2 Hindi Bhasha Shikshan	23012 & 23012	<ol style="list-style-type: none"> <li>1. Able to understand the concepts of linguistic.</li> <li>2. Able to understand the different flows of Hindi language (Rajbhasha,Bolibhasha)</li> <li>3. Able to understand the introductory concepts of Hindi grammar in Hindi.</li> <li>4. Able to understand the importance of linguistic</li> </ol>
SYBA	DSE-IA Kavyashashtra Samanya {S-	23091 & 24091	<ol style="list-style-type: none"> <li>1. Introduce the Bharatiya Kavya Shastra in Hindi.</li> <li>2. Develop the views of Literary Review in Hindi.</li> <li>3. Develop the language skill in Hindi.</li> </ol>

	1) DSE 1B Sahitya Ke Bhed (S-1)		<ol style="list-style-type: none"> <li>4. Able to critically interact with others about different aspects of Literature in Hindi.</li> <li>5. Ability to think about the development of Indian poetics.</li> <li>6. Know the importance of criticism in Hindi.</li> <li>7. Increase vision regarding literary value in Hindi.</li> <li>8. Get information about Alankar in Hindi Literature</li> </ol>
SYBA	DSE-2A Madhyayugin Kavya Tatha Upanyas Sahitya (S-2) DSE 2B Madhyayugin Kavya Tatha Natak Sahitya S-2	23092 & 24092	<ol style="list-style-type: none"> <li>1. Study the Krishna bhakti and Ram bhakti poem of Surdas and Tulsidas along with their philosophy of bhakti culture and its impact on our day to day life .</li> <li>2. Develop interest in Novel in Hindi.</li> <li>3. Get information about the ancient Hindi Literature.</li> <li>4. Know the concept and process of Literature in Hindi.</li> <li>5. Know the concept of Drama in Hindi.</li> <li>6. Know the concept and process of dramatics in Hindi. .</li> <li>7. Learn the origin of drama as dramatic art in Hindi.</li> </ol>
SYBA	CC-1C Adhunik Kavya Kahani Tatha Vyavharik Hindi CC-1D Adhunik Hindi Vyangya Sahitya Tatha Vyavharik Hindi	23093 24093	<ol style="list-style-type: none"> <li>1. Development of literary and linguistic test of the newly admitted students in Hindi.</li> <li>2. Knowledge of the basic function of literary language in Hindi.</li> <li>3. Perfection of the use of Idioms and Phrases.</li> <li>4. Enrichment of critical views of the students.</li> <li>5. Introduce the stories and story writers to the students in Hindi.</li> <li>6. Develop the National spirit among students.</li> </ol>
SYBA	SEC-2A Anuvad Swarup Evam Vyavhar & SEC- 2B Madhyam Lekhan	23096 & 24096	<ol style="list-style-type: none"> <li>1. Introduction of theory of Translation.</li> <li>2. Discuss about the problems of Translation and resolve them.</li> <li>3. Objectives of Good Translation.</li> <li>4. Understand translation as a tool for inter cultural and intra cultural communication.</li> <li>5. Understand the scope of translation.</li> <li>6. Understand the qualities of a translator.</li> </ol>

			<ol style="list-style-type: none"> <li>7. Able to understand the tools for translation, technical terminology of various domain</li> <li>8. Understand the translation approaches to scientific and technical texts.</li> <li>9. Understand problems in translating poetry, novels and other genres of literature.</li> <li>10. Introduce the History of Hindi Journalism.</li> <li>11. Introduction of the Main Hindi Journals.</li> <li>12. Contribution of Hindi Journalism in Independence of India.</li> <li>13. Understanding the various forms of writing in Media.</li> <li>14. Understanding the concept of proof reading.</li> <li>15. Able to understand the problems of Social media and their remedies.</li> <li>16. Give the importance for creative writing like Advertisement, Media, Add, etc.</li> </ol>
TYBA	<p>DSE 1C Hindi Sahitya Ka Itihas(Adikal, Bhaktikal, Ritikal Ka Samanya Parichay) (S-3) &amp; DSE 1D Hindi Sahitya Ka Itihas (Adhunik Kal :Samanya Parichay) (S-3)</p>	35091 & 36091	<ol style="list-style-type: none"> <li>1. Able to understand origin of Hindi language and its literature.</li> <li>2. Able to understand and identifying the dialects of Hindi language family.</li> <li>3. Able to analyze the development of Khariboli Hindi.</li> <li>4. Able to understand the concept of History of Literature in Hindi.</li> <li>5. Kahani (Story) &amp; Upanyas (Novel): Origin and Development in Hindi.</li> <li>6. Able to understand the importance and basis of the names given to each period of Hindi Literature.</li> <li>7. Develop the criticism views among students. Medieval and Modern Poetry: Able to understand the importance of Adikal, Bhaktikal, Ritikal &amp; Adhunikal.</li> <li>8. Understanding the change in content and style of expression in short stories in Hindi.</li> <li>9. Understanding the spirit of Nationalism of Bhartendu Harishchandra and Ramachandra Shukla.</li> <li>10. Understand the history of Hindi Literature from its emergence</li> <li>11. Understand the ancient classical tradition of Hindi Literature and the popular writers of</li> </ol>

			<p>the period under study in Hindi.</p> <p>12. Analyze the impact of Bhakti Movement on Hindi Literature.</p> <p>13. Analyze the different trends of Bhakti movement and the contribution of popular writers.</p> <p>14. Have a thorough Knowledge about the literature of 17th and 18th century in Hindi.</p>
TYBA	<p>DSE 2C Bhasha Vidnyan (S-4) &amp; DSE 2D Hindi Bhasha Aur Usaka Vikas (S-4)</p>	<p>35092 &amp; 36092</p>	<ol style="list-style-type: none"> <li>1. Know the various methods to the study of language.</li> <li>2. Understand the communication process and method.</li> <li>3. Develop knowledge of Hindi Linguistics &amp; Grammar in Hindi.</li> <li>4. Able to understand the ancient and medieval period languages.</li> <li>5. Able to understand the origin and development of Hindi language.</li> <li>6. Able to understand the different forms of Khadiboli Hindi</li> <li>7. Able to understand the introductory concepts of Hindi grammar.</li> <li>8. Know the concept of Linguistics in Hindi.</li> <li>9. Know the importance of language in human life.</li> <li>10. Know the various methods to the study of language.</li> <li>11. Understand the communication process and method.</li> </ol>
TYBA	<p>CC-1E Kathetar Vidhayen (G-3) &amp; CC-1F Gajal Vidha Aur Patrachar (G-3)</p>	<p>35093 &amp; 36093</p>	<ol style="list-style-type: none"> <li>1. Get introduction of Hindi authors.</li> <li>2. Get information about the autobiography, essay and drama literature.</li> <li>3. Get information about Hindi Literature forms.</li> <li>4. Know the new trends, study of poetic Drama, New Poetry and Gazal literature in new era.</li> <li>5. Learn Values through literary work.</li> <li>6. Get acquainted with the poetic style, diction of the age to which it belongs.</li> </ol>
TYBA	<p>SEC-2C Patkatha Lekhan</p>	<p>35096 &amp;</p>	<ol style="list-style-type: none"> <li>1. Understand the origin and development of Film.</li> <li>2. Understand the development of Films in</li> </ol>

	& SEC-2D Sahitya Aur Philmantaran	36096	Indian Languages. 3. Understand the silent features of screenplay writing in Hindi. 4. Analyze the screenplay given in the syllabus.
MA I	Madhyauygin Kavya	10501	1. Concept of text based Prachin & Madhyakaleen Hindi Literature. 2. Ability to understand the development of Prachin & Madhyakaleen Hindi Literature. 3. Understanding of Hindi literature and language of Aadikaal and Madhyakaal. 4. Differentiation and departure points of Hindi literature and language of Aadikaal and Madhyakaal. 5. Ability to think about Hindi literature and language of Aadikaal and Madhyakaal.
MA I	Katha Sahitya	10502	1. Concept of (text based) Hindi novel & short stories of modern era (Aadhunikkaal). 2. Ability to understand the development of Hindi novels and short stories by textual study. 3. Differentiation and departure points of Hindi novels and short stories. 4. Ability to think about Hindi novels and short stories in Hindi. 5. Get information about the Novel and Story Literature. 6. Get information about Medieval Hindi Literature forms. 7. Study social change effect on Medieval Hindi literature. 8. Understand the philosophy of Premchand about a woman of middle class through 'Nirmala' in Hindi. 9. Study the literary trends of Hindi short stories . 10. Study the life history and literary works of Jayshankar Prasad, Yashpal and Rangeya Raghav in Hindi .
MA I	Bhartiya Kavyashasht	10503	1. Develop the views of Literary Review. 2. Develop the language skill. 3. Able to critically interact with others about different aspects of Literature in Hindi.

			<ol style="list-style-type: none"> <li>4. Ability to think about the development of Indian poetics.</li> <li>5. Know the importance of criticism.</li> <li>6. Increase vision regarding literary value in Hindi.</li> <li>7. Understand the Indian poetics .</li> <li>8. Study about kavya ,Ras , Alankar and Chhanda</li> <li>9. Study definition , kinds, importance of Ras and to get an idea of Alankar , Riti , Dhvani and Vakrokti Sampradayas in Indian context .</li> <li>10. Get information about Alankar in Hindi Literature</li> </ol>
MA I	Vaikalpik : Natakkar Mohan Rakesh	10505	<ol style="list-style-type: none"> <li>1. Understand the contribution of Mohan Rakesh to Hindi literature in General.</li> <li>2. Analyze the social life as portrayed in the creative works of Mohan Rakesh.</li> <li>3. Understand the relevance of the creative works of Mohan Rakesh.</li> <li>4. Analyze the unique language and communication techniques of Mohan</li> <li>5. Rakesh based on his drama and other genres of Literatur</li> <li>6. Concept of text based study of plays of Hindi.</li> <li>7. Ability to understand the development of plays of Hindi.</li> <li>8. Understanding of Hindi plays and essays.</li> <li>9. Differentiation and departure points of Hindi plays.</li> <li>10. Ability to think about Hindi plays.</li> <li>11. Get an idea about Drama , its importance , concept , characteristics , history etc.</li> <li>12. Understand the vision of Jayshankar Prasad through the drama ‘Ajatsatru.’</li> <li>13. Understand the life history of Kalidas through ‘Asharh Ka Ek Din’ written by Mohan Rakesh .</li> <li>14. Get an idea of life history and literary contribution of Lakshmi narayan Mishra , Harikrishna Premi and Lakshminarayan Lal</li> </ol>
MA I	Kathetr Gadya Sahitya	20501	<ol style="list-style-type: none"> <li>1. Get introduction of Hindi authors.</li> <li>2. Get information about the autobiography, essay and drama literature in Hindi.</li> <li>3. Get information about Hindi Literature forms.</li> </ol>

MA I	Sodh Pravidhi	20502	<ol style="list-style-type: none"> <li>1. Understand some basic concepts of research and its methodologies in Hindi</li> <li>2. Identify appropriate research topics in Hindi</li> <li>3. Select and define appropriate research problem and parameters</li> <li>4. Prepare a project proposal (to undertake a project)</li> <li>5. Organize and conduct research (advanced project) in a more appropriate manner</li> <li>6. Write a research report and thesis Understand the way to Analyses a research problem systematically in Hindi.</li> <li>7. Comprehend the various aspects of research procedure.</li> <li>8. Gain deep knowledge in the technical aspects of writing a thesis.</li> <li>9. Understand various approaches in research.</li> <li>10. write a research proposal (grants)</li> </ol>
MA I	Paschyatya Kavyashastr	20503	<ol style="list-style-type: none"> <li>1. Ability to understand the development of Western poetics.</li> <li>2. Understanding of the development of Western poetics.</li> <li>3. Differentiation and departure points of Western poetics.</li> <li>4. Ability to think about the development of Western poetics.</li> <li>5. Understand the Western Poetics.</li> <li>6. Understand the various views of eminent Western critics like Plato, Arastu, Dr. Samuel Jhonson, William Wordsworth, Mathew Arnold ,I. A. Richard .</li> <li>7. Unow about the Western literary trends of Romanticism, Idealism, Realism, Existentialism.</li> </ol>
MA I	Vaikalpik : Hindi Upanyas Sahitya	20505	<ol style="list-style-type: none"> <li>1. Get an idea about Novel, its importance , history etc.</li> <li>2. Understand the vision of Premchand and his concern for strengthening the freedom movement in India through ‘Karmabhumi’ novel .</li> <li>3. Understand the views of Bhagawaticharan Verma through ‘Chitralkha’.</li> <li>4. Study the life history and literary works of</li> </ol>

			Devakinandan Khatri , Jainendra Kumar and Phanishwar Nath Renu.
MA II	Aadhunik Kavya (Aadarshvadi, Chayawadi Tatha Anya Kavya)	30501	<ol style="list-style-type: none"> <li>1. Study the Historical Development of Hindi Literature.</li> <li>2. Know the brief literature in same period.</li> <li>3. Know the various literary form in same period.</li> </ol>
MA II	Bhasha Vidnyan	30502	<ol style="list-style-type: none"> <li>1. Know the various methods to the study of language.</li> <li>2. Understand the communication process and method.</li> <li>3. Develop knowledge of Hindi Linguistics &amp; Grammar.</li> <li>4. Able to understand the ancient and medieval period languages in Hindi.</li> <li>5. Able to understand the origin and development of Hindi language.</li> <li>6. Able to understand the different forms of Khadiboli (Hindi, Urdu)</li> <li>7. Able to understand the introductory concepts of Hindi grammar. Know the concept of Linguistics in Hindi.</li> <li>8. Know the importance of language in human life.</li> <li>9. Know the various methods to the study of language.</li> <li>10. Understand the communication process and method.</li> <li>11. Understand the meaning ,concept, characteristics , kinds , development of a language .</li> <li>12. Understand the meaning , concept ,kinds and different part of linguistics in Hindi .</li> <li>13. It is a complete paper on linguistics in Hindi.</li> </ol>
MA II	Hindi Sahitya Ka Itihas	30503	<ol style="list-style-type: none"> <li>1. Concept of History of Hindi Literature of beginning period (Aadikaal) and medieval period (Madhyakaal)</li> <li>2. Ability to understand the development of Hindi language and literature of Aadikal &amp; Madhyakaal.</li> <li>3. Understanding of History of Hindi literature and language of Aadikaal and Madhyakaal.</li> </ol>

			<p>4. Differentiation and departure points of Hindi literature and language of Aadikaal and Madhyakaal.</p> <p>5. Time framing ability of Aadikaleen and Madhyakaleen Hindi Literature.</p>
MA II	Vaiklpik : Hindi Aalochana	30504	<p>1. Study criticism, its definition, importance, concept, kinds, history etc.</p> <p>2. Understand the contribution and various views of eminent Hindi critics, like Ramchandra Shukla, Hazariprasad Dwivedi, Nanddulare Vajpayee, Ramvilas Sharma and Dr. Nagendra .</p>
MA II	Aadhunik Kavya	40501	<p>1. Concept of History of Hindi Literature of modern era (Aadhunikkaal).</p> <p>2. Ability to understand the development to Hindi language and literature of modern era (Aadhunikkaal).</p> <p>3. Understanding of History of Hindi literature of modern era (Aadhunikkaal).</p> <p>4. Differentiation and departure points of modern Hindi literature.</p> <p>5. Time framing ability of modern Hindi Literature.</p>
MA II	Hindi Bhasha Ka Vikas	40502	<p>1. Concept of Hindi language &amp; Linguistics.</p> <p>2. Ability to understand the development of Hindi language &amp; Linguistics.</p> <p>3. Understanding of Hindi language &amp; Linguistics.</p> <p>4. Differentiation and departure points of Hindi language &amp; Linguistics.</p> <p>5. Ability to think about Hindi language &amp; Linguistics.</p>
MA II	Hindi Sahitya Ka Itihas (Aadhunik Kaal)	40503	<p>1. Study the socio-cultural &amp; political background from 1900 till date.</p> <p>2. Know the brief literature in same period.</p> <p>3. Know the various literary form in same period.</p> <p>4. Understand the literature and characteristics of Adhunik kal in context of socio – economic cultural and political condition of that period .</p> <p>5. Study the literature of Bharatenduyugin kavyadhara , Dwivediyugin kavyadhara , Chhayavadyugin kavyadhara , Chhayavadottar kavyadharayen .</p>

			6. Identify and analysis the eminent Hindi writings of Bharatenduyug, Dwivediyug , Chhayvad, chhayavadottaryug and their various skills of writings in Hindi.
MA II	Vaiklpik : Bhartiya Loksahtya	40504	<ol style="list-style-type: none"> <li>1. Know the co-relation between folk literature and other branches.</li> <li>2. Know the concept of folk literature in Hindi .</li> <li>3. Know the tradition of folk literature in India.</li> <li>4. Know the new trends in the study of folk literature in new era.</li> </ol>

## DEPARTMENT OF ECONOMICS

Class	Course	Course Outcomes
FY BA- Sem-I & II	G1- Indian Economic Environment	<ol style="list-style-type: none"> <li>1. To familiarize the students with the recent developments in the Indian Economy.</li> <li>2. To help the students to prepare for varied competitive examinations</li> <li>3. To provide the students with the background of the Indian Economy with focus. Ability to develop an understanding of the economic environment and the factors affecting economic environment.</li> <li>4. Ability to develop awareness on the various new developments in the different sectors of an economy – agriculture, industry, services, banking, etc.</li> <li>5. Ability to compare and contrast Indian Economy with other world economies.</li> </ol>
SY BA	G2- Financial System	<ol style="list-style-type: none"> <li>1. To create the awareness of the student of financial system.</li> <li>2. Understanding of the opportunities of finance their interaction with rest of the economy essential to realize how monetary force operates through multitude of channels.</li> </ol>
	S1-Micro Economics	<ol style="list-style-type: none"> <li>1. To understand the behavior of an economic agent namely; a consumer, a producer, a factor owner and the price fluctuations in a market. Price formation in different markets structure and the equilibrium of a firm and industry.</li> </ol>
	S2-Macro Economics	<ol style="list-style-type: none"> <li>1. To understand the economic analysis in terms of theoretical, empirical as well as policy-making issues.</li> <li>2. The objective of the course is to familiarize the students the basic concepts of Macro economics and applications.</li> </ol>
TY BA	G3- Economic Development & Planning	<ol style="list-style-type: none"> <li>1. This paper is devoted to the theories of economics development, approaches to economic development, social and institutional aspects of development, constraints on development process, macroeconomic policies, role of foreign capital and economic planning in developing countries.</li> </ol>
	S3- International Economics	<ol style="list-style-type: none"> <li>1. Course provides the students a thorough understanding and deep knowledge about the basic principles that tent to govern the free flow of trading goods and services at the global level.</li> <li>2. It trained about the rational of recent challenge in the export import policies of India.</li> </ol>
	S4-Public	<ol style="list-style-type: none"> <li>1. To understand the policies and operations which involve the use</li> </ol>

	Finance	of tax and expenditure measures while budgetary policy. It helps to understand expenditure program, budgetary procedures, stabilizations instruments, debt issues, levels of the government, etc.
F.Y. B. Com Sem-I	Business Economics (Micro)	<ol style="list-style-type: none"> <li>1. To impart knowledge of business economics</li> <li>2. To clarify micro economic concepts</li> <li>3. To analyze and interpret charts and graphs</li> <li>4. To understand basic theories, concepts of micro economics and their application</li> </ol>
F.Y. B. Com Sem-II	Business Economics (Micro)	<ol style="list-style-type: none"> <li>1. To understand the basic concepts of micro economics.</li> <li>2. To understand the tools and theories of economics for solving the problem of decision making by consumers and producers.</li> <li>3. To understand the problem of scarcity and choices.</li> </ol>
S.Y. B. Com	Business Economics (Macro)	<ol style="list-style-type: none"> <li>1. To understand the concept, process and importance of communication.</li> <li>2. To acquire and develop good communication skills requisite for business correspondence.</li> <li>3. To develop awareness regarding new trends in business communication.</li> <li>4. To provide knowledge of various media of communication.</li> <li>5. To develop business communication skills through the application and exercises.</li> </ol>
T.Y. B. Com	Indian and Global Economic Development	<ol style="list-style-type: none"> <li>1. To acquaint students with the basic concepts, terms &amp; provisions of Mercantile and Business Laws.</li> <li>2. To develop the awareness among the students regarding these laws affecting business, trade and commerce.</li> </ol>

## DEPARTMENT OF HISTORY

CLASS	Course Title	CODE	Course wise Outcomes
<b>F.Y.B.A (Credit System) SEM- I</b>	<b>Early India: From Prehistory to the Age of the Mauryas</b>	11171	<ol style="list-style-type: none"> <li>1. Provides examples of sources used to study of various periods in early history.</li> <li>2. Relates key historical developments during early period occurring in one place with another.</li> <li>3. Analyze socio-political and economic changes during the early period.</li> <li>4. Estimate the foreign invasion and achievement of the rulers.</li> </ol>
<b>SEM- II</b>	<b>Course Title: Early India: Post Mauryan Age to the Rashtrakutas</b>	11172	<ol style="list-style-type: none"> <li>1. Draws comparisons between policies of different rulers.</li> <li>2. Understanding Role of Gupta Emperor and Harshvardhanas in the early India.</li> <li>3. Understand transition to medieval India.</li> <li>4. Analyses factors of Literature, Religion, Art and Architecture in early India.</li> </ol>
<b>S.Y.B.A (Credit System) Semester- III &amp; IV</b>	<b>History of the Marathas (1630 - 1707)</b>	<b>CC-1(3)</b>	<ol style="list-style-type: none"> <li>1. Students will develop the ability to analyze sources of the Maratha history.</li> <li>2. Students will learn significance of regional history and political foundation of the region.</li> <li>3. It will enhance their perception of 17<sup>th</sup> century Maratha and India in the context of Maratha History.</li> <li>4. Appreciate the skills of leadership and administrative system of the Marathas.</li> </ol>
	<b>History of the Marathas (1707- 1818)</b>	<b>CC-2(3)</b>	<ol style="list-style-type: none"> <li>1. Students will be able to analyze the Marathas policy of expansionism and its consequences.</li> <li>2. They will understand the role played by the Marathas in the 18th century India.</li> <li>3. They will be acquainted with the art of diplomacy in the Deccan region.</li> <li>4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy.</li> </ol>
	<b>Medieval India – Sultanate Period</b>	<b>DSE-1A (3)</b>	<ol style="list-style-type: none"> <li>1. Provides examples of sources used to study of various periods in history.</li> </ol>

			<ol style="list-style-type: none"> <li>2. Relates key historical developments during medieval period occurring in one place with another.</li> <li>3. Analyze socio-political and economic changes during the medieval period.</li> <li>4. Estimate the foreign invasion and achievement of the rulers.</li> </ol>
	<b>Medieval India – Mughal Period</b>	<b>DSE-1B (3)</b>	<ol style="list-style-type: none"> <li>1. Draws comparisons between policies of different rulers.</li> <li>2. Understanding Role of Akbar in the consolidation of Mughal rule in India.</li> <li>3. Understand Aurangzeb’s conflict with Rajputas, Maratha and weakening Mughals age.</li> <li>4. Analyses factors which led to the emergence of new religious ideas and movements (bhakti and Sufi)</li> </ol>
	<b>Glimpses of the Modern World Part I</b>	<b>DSE-2A (3)</b>	<ol style="list-style-type: none"> <li>1. It will enable students to develop the overall understanding of the Modern World.</li> <li>2. The students will get acquainted with the Renaissance, major political, socio-religious and economic developments during the Modern World.</li> <li>3. It will enhance their perception of the history of the Modern World.</li> <li>4. It will enable students to understand the significance of the intellectual, economic, political developments in the Modern World.</li> </ol>
	<b>Glimpses of the Modern World Part II</b>	<b>DSE-2B (3)</b>	<ol style="list-style-type: none"> <li>1. It will enable students to develop the overall understanding of the Modern World.</li> <li>2. The students will get acquainted with the major nationalist movements, the World War II and its consequences, the Cold War and its Consequences.</li> <li>3. It will enhance their overall perception of the history of the Modern World.</li> <li>4. It will enable students to understand the significance of the strategic political developments in the Modern World.</li> </ol>

	<b>History of East Asia</b>	<b>DSE-2A (3)</b>	<ol style="list-style-type: none"> <li>1. It will enable students to develop the overall understanding of the Asian countries.</li> <li>2. The students will get acquainted with the Communism in China &amp; Imperialism of Japan.</li> <li>3. It will enhance their perception of the developmental Policies of the Asian Countries.</li> <li>4. It will enable students to understand the significance of China and Japan in the Modern World.</li> </ol>
	<b>History of West Asia</b>	<b>DSE-2B (3)</b>	<ol style="list-style-type: none"> <li>1. It will enable students to develop the overall understanding of the West Asian countries.</li> <li>2. The students will get acquainted with the modernization of Turkestan, Arab Nationalism and the Arab-Israel Conflict.</li> <li>3. It will enhance their perception of the developmental policies of the Asian Countries.</li> <li>4. It will enable students to understand the significance of the West Asian countries in the Modern World.</li> </ol>
<b>T.Y.B.A SEM- V &amp; VI</b>	<b>Indian National Movement (1885-1947)</b>	<b>CC-3(3)</b>	<ol style="list-style-type: none"> <li>1. It will enable students to develop an overall understanding of Modern India.</li> <li>2. It will increase the spirit of Nationalism, Democratic Values and Secularism among the students.</li> <li>3. Students will understand various aspects of the Indian Independence Movement and the creation of Modern India.</li> </ol>
	<b>India after Independence (1947-1991)</b>	<b>CC-4(3)</b>	<ol style="list-style-type: none"> <li>1. It will enable students to develop an overall understanding of the Contemporary India.</li> <li>2. To increase the spirit of healthy</li> </ol>

			<p>Nationalism, Democratic Values and Secularism among the students.</p> <p>3. Students will understand various aspects of India's domestic and foreign policies that shaped Post-Independence India.</p>
	<b>Introduction to Historiography</b>	<b>DSE-3 C (3)</b>	<p>1. Students will be introduced to the information and importance of Historiography.</p> <p>2. Students will be introduced to the different Methods and Tools of data collection.</p> <p>3. Students can study the interdisciplinary approach of History.</p> <p>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.</p> <p>5. This curriculum develops Research ability and process of Research methodology in History.</p>
	<b>Applied History</b>	<b>DSE-3 C (3)</b>	<p>1. Students will be introduced to the information and importance of applied history.</p> <p>2. Student will learn about the Historical significance of Archaeology and Archives and opportunities in the field of Archaeology and Archives.</p> <p>3. Through this course, students will be informed about the opportunities in the field of Media, Museums.</p> <p>4. the about learn will Students 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.</p>
	<b>Maharashtra in the 19th Century</b>	<b>DSE-4 D (3)</b>	<p>1. Student will develop the ability to analyze sources for 19th century Maharashtra History.</p> <p>2. Student will learn significance of Regional History and Socio- religious reformism foundation of the region.</p> <p>3. It will enhance their perception of 19th</p>

			Century Maharashtra. 4. Appreciate the skills of leadership and the Socio-religious System of the Maharashtra.
	<b>Maharashtra in the 20<sup>th</sup> Century</b>	<b>DSE-4 D (3)</b>	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.
	<b>Constitutional Development in India (1773-1853)</b>	<b>DSE-4 D (3)</b>	1. Students will understand evolution of Constitution of India. 2. Student will learn factors and conditions that contributed to constitution of India 3. Students will understand the Democratic Processes and thereby strengthen Democracy.
	<b>Constitutional Development in India (1858-1950)</b>	<b>DSE-4 D (3)</b>	1. Student will understand evolution of Constitution of India. 2. Student will learn factors and conditions that contributed to Constitution of India 3. Students will understand democratic processes and thereby strengthen Democracy.

## DEPARTMENT OF GEOGRAPHY

<b>Course Outcome: B.A. (Geography)</b>		
Class	Course title	Outcome
F.Y.B.A	Sem I 110(A) Physical Geography	<ol style="list-style-type: none"> <li>1. Students are introduced to the basic concepts in Physical Geography.</li> <li>2. Students are introduced to the various geographical features.</li> </ol>
	Sem II 110(B) Human Geography	<ol style="list-style-type: none"> <li>1. Students are introduced to basic concepts in Human Geography.</li> <li>2. The Geographical maturity of students in their current and future courses shall develop.</li> <li>3. The students develop theoretical, applied and computational skills.</li> </ol>
S.Y.B.A (G2)	Sem-III Environmental Geography 210 (A)	<ol style="list-style-type: none"> <li>1. Students are able to understand about the concept of environmental geography, its nature and scope, approaches, importance and type etc.</li> <li>2. Students are aware about the concept of ecosystem, its structure and types.</li> <li>3. Student is able to learn the concept of Biodiversity and its conservation.</li> <li>4. Students are able to acquire the knowledge about environment pollution and its type.</li> </ol>

S.Y.B.A (S-1)	Sem-III Geography of Maharashtra (Gg-220A)	<ol style="list-style-type: none"> <li>1. Student is able to acquire knowledge about geography of our state.</li> <li>2. Students are aware about the magnitude of problem and prospect in Maharashtra.</li> <li>3) Student are able to understand the inter relationship between the subject and the society.</li> </ol>
S.Y.B.A (S-1)	Sem-IV Environmental Geography 210 (A)	<ol style="list-style-type: none"> <li>1. Students are able to learn about the concept the of environmental disasters.</li> <li>2. Students are aware about the environmental problem.</li> <li>3. Student is able to learn the concept of need of planning and management, type of planning and management with reference to India.</li> </ol>
S.Y.B.A (G-2)	Sem-IV Economic Geography 210 (A)	<ol style="list-style-type: none"> <li>1. Students are able to learn about the modes of Transportation and their cost effectiveness, type of trade as well as International trade of India.</li> <li>2. Students also learnt the concept of regional planning, regional imbalance and its importance in economic development.</li> <li>3. Student learnt about the concept rural development, index of rural development as well as various scheme of government for rural development.</li> </ol>
	Sem-IV Geography of Maharashtra (Gg-220A)	<ol style="list-style-type: none"> <li>1.Student are aware about the agriculture problem and prospect of Maharashtra</li> <li>2.Student are able to understand the population distribution and settlement pattern in Maharashtra</li> <li>3. Student is able to understand the concept of rural development.</li> </ol>
S.Y.B.A	( Sem III & IV)	<ol style="list-style-type: none"> <li>1. Students are acquainted with the basic of Statistical</li> </ol>

(S2)	Practical Geography (I & II)	<p>data.</p> <p>2. Students are acquainted with the principles of surveying, its importance and utility in the geographical study.</p> <p>3. Students are familiar to the various Projections and Cartographic Techniques.</p>
T.Y.B.A (G3)	(Yearly) Regional Geography of India (3207)	<p>1. Students are acquainted with Geography of our nation.</p> <p>2. Students are aware about the magnitude of problems and Prospects at National level.</p> <p>3. Students are understand the inter relationship between the subject and society.</p> <p>4. Students understand the recent trends in Regional studies.</p>
T.Y.B.A (G3)	( Yearly) Human Geography ( 3207)	<p>1.Student acquire knowledge of geography of our nation</p> <p>2. Student understood the inter relationship between subject and society.</p> <p>3. Student learnt recent trends in regional studies.</p>
T.Y.B.A (S3)	(Yearly) Agricultural Geography (3208)	<p>1. Students are introduced to Agricultural activities and its relation with Geography.</p> <p>2. Students are familiarized with new modern technical methods and their applications in agricultural activities.</p> <p>3. Students are able to apply the previously knowledge in problems and prospects in agriculture.</p>
T.Y.B.A (S4)	(Yearly) Techniques of Special Analysis (3209)	<p>1. Students are introduced with SOI Top sheets and to acquire knowledge of Top sheet Reading/Interpretation.</p> <p>2. Students are familiarized with the weather instruments and their applications in Geographical phenomena.</p> <p>3. Awareness about GIS was created among the students.</p>

**DEPARTMENT OF POLITICAL SCIENCE**

<b>Course Ourtcomes : B.A. (Political Science)</b>			
<b>Class</b>	<b>Course title</b>	<b>Subject Code</b>	<b>Course Outcome</b>
FYBA	Paper-(Introduction to Indian Constitution)	G-1 Code--11161A-Poli.Sci.G-1	<ol style="list-style-type: none"> <li>1. The students are acquainted with the important features of the Constitution of India.</li> <li>2. The student is aware with the basic framework of Indian Government.</li> <li>3. The students become familiar to the working of the Constitution of India.</li> <li>4. Students can know the different ideological standpoints to various concept and theories that are critically explained.</li> </ol>
S.Y.B.A.	Paper-(An Introduction to Political Ideologies )	CC2C-23164 – Poli.Sci-Gen-2	<ol style="list-style-type: none"> <li>1. Students are introduced to concepts, ideas and theories in political science.</li> <li>2. Students are familiar to evolution and usage, ideas and theories with reference to individual thinkers both historically and analytically.</li> <li>3. Students can know the different ideological standpoints to various concept and theories that are critically explained.</li> <li>4. Students are aware about the theory of yester year’s gains prominence in contemporary political theory.</li> </ol>
S.Y.B.A.	Paper-(Western Political Thoughts)	DSE-1A-23161-Poli.Sci.-Spe -1	<ol style="list-style-type: none"> <li>1. Students are introduced to classical tradition in political theory from Plato to Marx with the view to analyze and understand political events and problems of their time and solution</li> <li>2. Students are aware about the negligence of women’s concerns and issues</li> <li>3. Students can know the change within the Western political tradition</li> </ol>
S.Y.B.A.	Paper-(Political Journalism)	DSE-2A-23162-Poli.Sci.Spe -2	<ol style="list-style-type: none"> <li>1. Students are introduced to classical tradition in political theory from Plato to Marx with the view to analyze and understand political events and problems of their time and solution.</li> </ol>

			<p>2. Students are aware about the negligence of women's concerns and issues.</p> <p>3. Students can know the change within the Western political tradition.</p>
S.Y.B.A.	Paper-(Basic of Indian Constitution)	SEC-2A-(23165) Poli. Sci. Spe -2 Value Add./ Skill Ench. Course 2- Credits	<p>1. Students are introduced to concepts, ideas and theories in political science</p> <p>2. Students are familiar to evolution and usage, ideas and theories with reference to individual thinkers both historically and analytically.</p> <p>3. Students can know the different ideological standpoints to various concept and theories that are critically explained</p> <p>4. Students are aware about the theory of yester year's gains prominence in contemporary political theory.</p>
T.Y.B.A.	Paper- Local Government of Maharashtra	(3167)- Political Science Gen -3	<p>1. Students are introduced to structure of Local Self Government of Maharashtra.</p> <p>2. Students are familiar to awareness of the various Local Self Institutions, function, and composition and importance.</p> <p>3. Students can know the role of Local Government and Local Leadership in development Course.</p>
T.Y.B.A.	Paper- (Public Adiministration)	(3168)-Poli. Sci. Spe -3 (Pattern-2013)	<p>1. Students are introduced to essence of Public Administration, its effectiveness in translating the governing philosophy into programmes, policies and activities and making it a part of Community living.</p> <p>2. Students are familiar to personnel public administration in the historic context highlighting several of its categories which develops administrative salience and capabilities to deal with the process of Changes</p> <p>3. Students can know the paradigm of democratic legitimacy</p> <p>4. The importance of legislative and judicial control over administration is given to students Course</p>

T.Y.B.A.	Paper - (International Politics)	(3169)-Poli. Sci. Spe. -4 (Pattern- 2013)	<ol style="list-style-type: none"> <li>1. Students are introduced to concepts and dimensions of international relations</li> <li>2. Students are familiar to different theories highlighting the major debates and different aspects of balance of power within.</li> <li>3. Students can know the various aspects of conflict and conflict resolution, collective security and specificity of the long period of post Second World War and phase of the Cold War. Of Detente and Deterrence leading to theories of rough parity in armaments.</li> </ol>
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**DEPARTMENT OF DEFENSE AND STRATEGIC STUDIES**

<b>Course Outcomes : B.A. (Defense &amp; Strategic Studies)</b>			
<b>SEM</b>	<b>Course Title</b>	<b>Subject Code</b>	<b>COURSE OUTCOMES</b>
<b>F.Y.BA SEM-I</b>	Defense Organization of India	11271	<ol style="list-style-type: none"> <li>1. Students are able to introduced Defense Organization of India.</li> <li>2. They are acquiring Knowledge about Paramilitary forces.</li> <li>3. Students are learnt about Higher Defense Organization.</li> <li>4. Student understood about Intelligence Organization of India.</li> </ol>
<b>F.Y.BA SEM-II</b>	India's National Security	11272	<ol style="list-style-type: none"> <li>1. Students are able to introduced issues of India's National Security.</li> <li>2. They are acquire Knowledge about India's Internal Security challenges.</li> <li>3. Students are learnt about India's External Security challenges.</li> <li>4. Student understood about Non-conventional Threats of India.</li> </ol>
<b>SYBA SEM-III (2019 Pattern)</b>	Chhatrapati Shivaji Maharaj as a Nation Builder	23273 CC-1C	<ol style="list-style-type: none"> <li>1. Students are able to understand Chhatrapati Shivaji Maharaj as a Nation Builder.</li> <li>2. They are acquiring Knowledge about the Maratha Military Organization.</li> <li>3. Students are learnt about Swarajya Building.</li> <li>4. Student understood about Military History.</li> </ol>
	India's Internal Security-I		<ol style="list-style-type: none"> <li>1. Students are able to understand National Security of India.</li> <li>2. They are acquiring Knowledge about the nature of internal security.</li> <li>3. Student is learnt about the Social Problems in India and its effects.</li> <li>4. Student understood about Regionalism in India.</li> </ol>

	Geo-Politics	23272 DSE-2A	<ol style="list-style-type: none"> <li>1. Students understand the concept of Geopolitics during War and Peace time.</li> <li>2. They are acquiring Knowledge about the theories of Geopolitical Thinkers.</li> <li>3. Student is learnt about the Maritime Boundaries and Territorial Sea.</li> <li>4. Student understood about Geographical factors affecting War.</li> </ol>
<b>SYBA SEM-IV</b>	Chhatrapati Shivaji's Military System	24273	<ol style="list-style-type: none"> <li>1. Students are able to understand Chhatrapati Shivaji Maharaj Military System.</li> <li>2. They are acquiring Knowledge about the Organization of Maratha Army.</li> <li>3. Students are learnt about the Forts Built by Chhatrapati Shivaji Maharaj.</li> <li>4. Student understood about Ship building under Chhatrapati Shivaji Maharaj.</li> </ol>
	India's Internal Security-II	24271	<ol style="list-style-type: none"> <li>1. Students are able to understand Security Issue of Jammu and Kashmir Problems.</li> <li>2. They are acquire Knowledge about the Naxalite Problems.</li> <li>3. Student are learnt about the Terrorism.</li> <li>4. Student understood about Cyber Crime in India</li> </ol>
	Military Geography	24272	<ol style="list-style-type: none"> <li>1. Students are able to understand the concept and relevance attributes of Military Geography for National Security.</li> <li>2. They are acquiring Knowledge about the concept of Warfare in different Terrains.</li> <li>3. Students are learnt about the concept of Geo-Strategy.</li> <li>4. iv) Student understood about Geography and Warfare.</li> </ol>
<b>T.Y.B.A (2013 Pattern)</b>	Cotemporary Warfare	3277	<ol style="list-style-type: none"> <li>1. Students are aware about the Concept and Component of Revolutionary war.</li> <li>2. Students learnt about the various Warfare (eg. Nuclear War and Nuclear Weapon system.)</li> <li>3. Students understood of Chemical and Biological Warfare</li> </ol>

	International Organization	3278	<ol style="list-style-type: none"> <li>1. Students are understood of structure, Objectives and Functioning of U. N.</li> <li>2. Student acquires the knowledge about role and importance of UN in case of Peace, Security, and Dispute Settlement and Enforcement action.</li> <li>3. Students learnt about Functioning of U. N. in the field of Social and Economic Issues.</li> <li>4. Students are aware about Human Rights.</li> </ol>
	Defence Economics	3279	<ol style="list-style-type: none"> <li>1. Students are aware about Indian Economic system and Budget allocation for Defense.</li> <li>2. Students learnt budgetary procedure of Indian defense budget.</li> <li>3. Students understood of Parliamentary Control of Defense budget.</li> <li>4. Students acquire the Knowledge of Expenditure on budget 1947 to Update and determinants.</li> </ol>

**DEPARTMENT OF COMMERCE**

<b>Course Outcome: B. Com.</b>		
<b>Class</b>	<b>Course Title</b>	<b>Outcome</b>
F.Y.B.Com Sem. 1	112- Financial Accounting	<ol style="list-style-type: none"> <li>1. Students get knowledge of various accounting concepts</li> <li>2. Students achieve knowledge about accounting procedures, methods and techniques.</li> </ol>
	114- Business Mathematics and Statistics	<ol style="list-style-type: none"> <li>1. Students prepared for competitive examinations.</li> <li>2. Students understood the concept of Simple interest, compound interest and the concept of EMI.</li> <li>3. Students aware with the concept of shares and calculations of Dividend</li> <li>4. Students understood the concept of population and sample.</li> <li>5. Students upgraded their knowledge regarding the use of frequency distribution useful for make decision.</li> </ol>
	116- Consumer Protection and Business Ethics	<ol style="list-style-type: none"> <li>1. Students acquaint with consumer and consumer movement.</li> <li>2. The students aware about consumer rights, duties and mechanism for resolving their disputes.</li> </ol>
F.Y.B.Com Sem. 2	122- Financial Accounting	<ol style="list-style-type: none"> <li>1. Students achieve knowledge about accounting procedures, methods and techniques.</li> <li>2. Students have practical approach to accounts writing by using software package.</li> </ol>
	124- Business Mathematics and Statistics	<ol style="list-style-type: none"> <li>1. Students understood various methods of calculation regarding averages and variations.</li> <li>2. Students understood the concept and application of profit and loss in business.</li> <li>3. Students obtained knowledge for solving the LPP to maximize the profit and to minimize the cost.</li> <li>4. Students knew about utility of correlation and regression analysis and estimation about the relationship between two variables.</li> <li>5. Students understood the concept and techniques of different types of index numbers.</li> </ol>
	126- Consumer Protection and Business Ethics	<ol style="list-style-type: none"> <li>1. Students aware about laws relating to consumers.</li> <li>2. Students aware with role of Business Ethics in various functional areas.</li> </ol>
	Business Communication	<ol style="list-style-type: none"> <li>1. Students understood the concept, process and importance of communication.</li> <li>2. Students aware regarding new trends in business</li> </ol>

S.Y.B.Com		<p>communication.</p> <ol style="list-style-type: none"> <li>Students upgraded with the knowledge of various media of communication.</li> <li>Students developed with various skills of business communication through the application and exercises.</li> </ol>
	Business Management	<ol style="list-style-type: none"> <li>Students upgraded with the basic knowledge &amp; understanding about business management concept.</li> <li>Students understood various functions of management</li> </ol>
	Elements of Company Law	<ol style="list-style-type: none"> <li>Students imparted with the knowledge of fundamentals of Company Law.</li> <li>The knowledge of students updated regarding the provisions of the Companies Act of 2013.</li> <li>The knowledge of students improved regarding new concepts involving in company law regime.</li> <li>Students acquainted with the duties and responsibilities of Key Managerial Personnel.</li> <li>Students imparted with the provisions and procedures under company law</li> </ol>
S.Y.B.Com	Corporate Accounting	<ol style="list-style-type: none"> <li>The students are enabled to develop awareness about Corporate Accounting in conformity with the provisions of Companies Act and Accounting as per Indian Accounting Standards.</li> <li>The students have learned about the conceptual aspect of corporate accounting and skills for Computerized Accounting</li> <li>The students are capable to implement their skills about accounting standards</li> </ol>
TYB.Com	3113- Business Regulatory Framework (Mercantile Law)	<ol style="list-style-type: none"> <li>Students grasped the detailed information regarding the basic concepts, terms &amp; provisions of Mercantile and Business Laws.</li> <li>Awareness improved among the students regarding these laws affecting business, trade and commerce.</li> </ol>
	3153- Auditing & Taxation	<ol style="list-style-type: none"> <li>The students got acquaint with the concept and principles of Auditing, Audit process, Assurance Standards, Tax Audit, and Audit of computerized Systems.</li> <li>They got knowledge about preparation of Audit report.</li> <li>Students understood the basic concepts and to acquire knowledge about Computation of Income, Submission of Income Tax Return, Advance Tax,</li> </ol>

		and Tax deducted at Source, Tax Collection Authorities under the Income Tax Act, 1961.
	Advanced Accounting	<ol style="list-style-type: none"> <li>1. Imparted the knowledge of various accounting concepts</li> <li>2. The knowledge about accounting procedures, methods and techniques has installed.</li> <li>3. Students got acquainted with practical approach to accounts writing by using software package.</li> </ol>
<b>Course Outcomes: M. Com.</b>		
<b>Class</b>	<b>Course Title</b>	<b>Outcome</b>
M.Com. Part I Sem. 1	101 Management Accounting	1. The objective of the course is to enable students to acquire sound Knowledge of concepts, methods and techniques of management accounting and to make the students develop competence with their usage in managerial decision making and control.
	102 Strategic Management	1. Students acquire sound knowledge of concepts, nature and structure of strategic Management
M.Com. Part I Sem. 2	201- Financial Analysis & Control.	1. The objective of the course is that the students acquire sound knowledge of concepts, methods and techniques of management accounting and the students developed for competence with their usage in managerial decision making and control
	202 A- Industrial Economics	The students studied the basic concepts of <ol style="list-style-type: none"> <li>1. Industrial economics</li> <li>2. The significance and problems of industrialization.</li> <li>3. The impact of Industrialization on Indian Economy</li> </ol>
M.Com. Part 2 Sem. 3	301- Business Finance	Students acquire sound knowledge of concepts, nature and structure of business finance.
	302- Research Methodology for Business	<ol style="list-style-type: none"> <li>1. The students acquaint with the areas of Business Research Activities.</li> <li>2. The students enhance capabilities to conduct the research in the field of business and social sciences.</li> <li>3. The students enable in developing the most appropriate methodology for their research studies.</li> <li>4. The students are familiar with the art of using different research methods and techniques</li> </ol>
M.Com. Part 2 Sem.	401- Capital Market and Financial	<ol style="list-style-type: none"> <li>1. Students acquire sound knowledge, concept and</li> <li>2. Structure of capital market and financial services.</li> </ol>

4	Services.	
	402- Industrial Economic Environment.	<ol style="list-style-type: none"><li>1. The basic concepts of Industrial Finance.</li><li>2. The effects of New Economic Policy.</li><li>3. The impact of Labor reforms on Industries.</li></ol>

**DEPARTMENT OF BBA (CA)**  
**Course Outcomes**

<b>Class</b>	<b>Subject Code and Subject Name</b>	<b>Outcome</b>
<b>F.Y.BBA(CA) Sem. I</b>	<b>CA-101-Business Communication</b>	<ol style="list-style-type: none"> <li>1. To understand what is the role of communication in personal and business world</li> <li>2. To understand system and communication and their utility</li> <li>3. To develop proficiency in how to write business letters and other communications in required</li> </ol>
	<b>CA-102 Principle of Management</b>	<ol style="list-style-type: none"> <li>1. To understand basic concept regarding org. Business Administration</li> <li>2. To examining how various management principles</li> <li>3. To develop managerial skills among the students</li> </ol>
	<b>CA-103-C language</b>	<ol style="list-style-type: none"> <li>1. Learn the basic and introduction of computer, structure of c and control structure</li> <li>2. Know arrays, arrays types, string handling functions.</li> <li>3. Understand user defined functions, categories of function and recursion, structures and unions.</li> <li>4. Know the concept pointers, file handling, input output operations.</li> <li>5. Able to use the classification of data structure about abstract data Type, stack and queue</li> </ol>
	<b>CA-104–Database Management System</b>	<ol style="list-style-type: none"> <li>1. Able to master the basic concepts &amp; understand the application of database.</li> <li>2. Able to construct an Entity-Relationship (E-R) model from specification &amp; to transform to relational model.</li> <li>3. Understand &amp; apply database normalization principles.</li> </ol>

		4. Understand the principle of database transaction management, database recovery, security.
	<b>CA-105-Statistics</b>	<ol style="list-style-type: none"> <li>1. To understand role and importance of statistics in various business situations</li> <li>2. To develop skills related with basic statistical technique</li> <li>3. Develop right understanding regarding regression, correlation and data interpretation</li> </ol>
<b>F.Y.BBA(CA) Sem. II</b>	<b>CA-201– Organization behavior &amp; HRM</b>	<ol style="list-style-type: none"> <li>1. To understand basic concept of HRM &amp; OB</li> <li>2. To make aware students about traditional &amp; modern methods of procurement &amp; development in organization.</li> <li>3. To know the major trends in HRM &amp; OB</li> </ol>
	<b>CA-202-Financial Accounting</b>	<ol style="list-style-type: none"> <li>1. To develop right understanding regarding role and importance of monetary and financial transactions in business</li> <li>2. To cultivate right approach towards classifications of different transactions and their implications</li> <li>3. To develop proficiency preparation of basic financial as to how to write basis accounting statement - Trading and P&amp;L</li> </ol>
	<b>CA-203–Business Mathematics</b>	<ol style="list-style-type: none"> <li>1. To understand role and importance of Mathematics in various business situations and while developing software.</li> <li>2. To develop skills related with basic mathematical technique</li> </ol>
	<b>CA-204–Relational Database</b>	<ol style="list-style-type: none"> <li>1. Enables students to understand relational database concepts and transaction management concepts in database system.</li> <li>2. ii) Enables student to write PL/SQL programs that use: procedure, function, package, cursor and trigger.</li> </ol>
	<b>CA-205–Web Technology HTML-JS-CSS</b>	<ol style="list-style-type: none"> <li>1. To know &amp; understand concepts of internet programming.</li> <li>2. ii) To understand how to develop web based</li> </ol>

		applications using JavaScript.
<b>S.Y.BBA(CA) Sem. 1III</b>	<b>CA-301-Digital Marketing</b>	<ol style="list-style-type: none"> <li>1. The aim of this syllabus is to give knowledge about using digital marketing in and as business.</li> <li>2. To make SWOT analysis, SEO optimization and use of various digital marketing tools</li> </ol>
	<b>CA-302-Data structure</b>	<ol style="list-style-type: none"> <li>1. To understand the concepts of ADTs</li> <li>2. To learn linear data structures – lists, stacks, and queues</li> <li>3. 3 To understand sorting, searching and hashing algorithms</li> <li>4. 4. To apply Tree and Graph structures</li> </ol>
	<b>CA-303-Software Engineering</b>	<ol style="list-style-type: none"> <li>1. To understand System concepts.</li> <li>2. To understand Software Engineering concepts.</li> <li>3. To understand the applications of Software Engineering concepts and Design in Software development</li> </ol>
	<b>CA-304-Angular JS</b>	<ol style="list-style-type: none"> <li>1. By the end of this course, the students should be able to Understand Client Side MVC and SPA</li> <li>2. Explore AngularJS Component</li> <li>3. Develop an AngularJS Single Page Application</li> <li>4. Create and bind controllers with Javascript</li> <li>5. Apply filter in AngularJS application</li> </ol>
	<b>CA-305-Big Data</b>	<ol style="list-style-type: none"> <li>1. To enable learners to develop expert knowledge and analytical skills in current and developing areas of analysis statistics, and machine learning</li> <li>2. To enable the learner to identify, develop and apply detailed analytical, creative, problem solving skills.</li> <li>3. Provide the learner with a comprehensive platform for career development, innovation and further study.</li> </ol>
<b>S.Y.BBA(CA) Sem. 1V</b>	<b>CA-401-Networking</b>	<ol style="list-style-type: none"> <li>1. To gain knowledge about Computer Networks concepts.</li> <li>2. To know about working of networking</li> </ol>

		<p>models, addresses, transmission Medias and connectivity devices.</p> <p>3. 3. To acquire information about network security and cryptography.</p>
	<b>CA-402-Object Oriented concept through CPP</b>	<p>1. Acquire an understanding of basic object-oriented concepts and the issues involved in effective class design.</p> <p>2. 2. Enable students to write programs using C++ features like operator overloading, constructor and destructor, inheritance, polymorphism and exception handling</p>
	<b>CA-403-Operating System</b>	<p>1. To know the services provided by Operating System</p> <p>2. To know the scheduling concept</p> <p>3. To understand design issues related to memory management and various related algorithms.</p> <p>4. 4. To understand design issues related to File management and various related algorithms</p>
	<b>CA-404-Node JS</b>	<p>1. Understand the JavaScript and technical concepts behind Node JS</p> <p>2. Structure a Node application in modules</p> <p>3. Understand and use the Event Emitter</p> <p>4. Understand Buffers, Streams, and Pipes</p> <p>5. Build a Web Server in Node and understand how it really works</p> <p>6. Connect to a SQL or Mongo database in Node</p>
<b>T.Y.BBA(CA) Sem. V</b>	<b>CA-501-Java Programming</b>	<p>1. Design and implement Applet and event handling mechanisms in programs</p> <p>2. Apply object oriented programming concepts in problem solving through JAVA.</p>
	<b>CA-502-Web Technology</b>	<p>1. Conceptualize and plan an internet-based business that applies appropriate business models and web technologies.</p> <p>2. Combine multiple web technologies to create advanced web components.</p> <p>3. Design websites using appropriate security</p>

		<p>principles, focusing specifically on the vulnerabilities inherent in common web implementations.</p> <p>4. Incorporate best practices in navigation, usability and written content to design websites that give users easy access to the information they seek.</p>
	<b>CA-503-.Net Programming</b>	<p>1. Student learns to develop applications using VB.NET</p> <p>2. They will also learn to apply these languages to develop server-side applications which make use of ADO.NET, ASP.NET, Web Services etc</p>
	<b>CA-504-Object Oriented software engineering</b>	<p>1. Evaluate and analyze the SDLC and basic architecture SRS documents.</p> <p>2. Help to understand the software design and coding techniques.</p> <p>3. Understand the software testing principles.</p> <p>4. Understand the concept project management.</p> <p>5. Identify various concepts of Advanced UML techniques</p>
<b>T.Y.BBA(CA) Sem. VI</b>	<b>CA-601 Advanced web technology</b>	<p>1. Employ fundamental computer theory to basic programming techniques.</p> <p>2. Use fundamental skills to maintain web server services required to host a website.</p> <p>3. Select and apply markup languages for processing, identifying, and presenting of information in web pages.</p> <p>4. Use scripting languages and web services to transfer data and add interactive components to web pages.</p> <p>5. Create and manipulate web media objects using editing software.</p> <p>6. Incorporate aesthetics and formal concepts of layout and organization to design websites</p>

	<b>CA-602-Advance Java-</b>	<ol style="list-style-type: none"> <li>1. Apply object oriented programming concepts in problem solving through JAVA.</li> <li>2. Design and implement Applet and event handling mechanisms in programs</li> </ol>
	<b>CA-603-Recent Trends in IT -</b>	<ol style="list-style-type: none"> <li>1. Students would be able to understand the legal and security issues.</li> <li>2. Students would be able to apply the knowledge in compiler design, text and image processing.</li> <li>3. The student will be able to define a system and recognize the behavior of a system.</li> <li>4. They will be able to minimize a system and compare different systems.</li> </ol>
	<b>CA-604 Software Testing</b>	<ol style="list-style-type: none"> <li>1. Investigate the reason for bugs and analyze the principles in software testing to prevent and remove bugs.</li> <li>2. Implement various test processes for quality improvement</li> <li>3. Design test planning.</li> <li>4. Manage the test process</li> <li>5. Apply the software testing techniques in commercial environment</li> <li>6. Use practical knowledge of a variety of ways to test software and an understanding of some of the tradeoffs between testing techniques</li> </ol>

**DEPARTMENT OF CHEMISTRY**

**Semester-I**

Class	Course Title	Course Outcomes
		<b>Students of the First Year B. Sc. Chemistry (2019 CBCS Pattern) are exempted</b>
<b>F.Y.B.Sc. (CBCS Pattern)</b>	<b>CH-101: Physical Chemistry Paper-I</b>	<ol style="list-style-type: none"><li>1. To learn the principle of thermodynamic &amp; calculation of different types of energies.</li><li>2. To understand exothermic and endothermic reactions, third law of thermodynamics and its application.</li><li>3. Understand the concept of different salts and their pH value, preparation of Buffer solution.</li><li>4. Understand the concept of common ion effect Hydrolysis constant, ionic product, solubility product.</li></ol>
<b>F.Y.B.Sc. (CBCS Pattern)</b>	<b>CH-102: Organic Chemistry Paper-II</b>	<ol style="list-style-type: none"><li>1. To understand the fundamentals, principles. Students will learn Fundamentals of organic chemistry.</li><li>2. To understand the stereochemistry (Conformations, configurations and nomenclatures).</li><li>3. To enhance the knowledge related to Functional groups.</li><li>4. To understand functional group approach for aliphatic hydrocarbons.</li></ol>
<b>F.Y.B.Sc. (CBCS Pattern)</b>	<b>CH-103: Practical Chemistry Paper-III</b>	<ol style="list-style-type: none"><li>1. To learn importance of chemical safety and Lab safety while performing experiments in laboratory.</li><li>2. To learn about determination of thermo chemical parameters and related concepts.</li><li>3. Understand techniques of pH measurements and preparation of buffer solutions.</li><li>4. To learn elemental analysis of organic compounds and chromatographic techniques for separation of constituents of mixtures.</li></ol>

**Semester-II**

Class	Course Title	Course Outcomes
		<b>Students of the First Year B. Sc. Chemistry (2019 CBCS Pattern) are exempted</b>
<b>F.Y.B.Sc. (CBCS Pattern)</b>	<b>CH-201: Inorganic Chemistry Paper-I</b>	<ol style="list-style-type: none"><li>1. To learn various theories and principles applied to reveal atomic structure. Significance of quantum chemistry.</li><li>2. To explain rules for filling electrons in various orbitals- Aufbau principle, Pauli Exclusion Principle, Hund's rule of maximum multiplicity and Electronic configuration.</li></ol>

		<ol style="list-style-type: none"> <li>To classify elements as main group, transition and inner transition elements.</li> <li>To write name, symbol, electronic configuration, trends and properties.</li> <li>To define various types of chemical bonds- Ionic, covalent, coordinate and metallic bond.</li> <li>To describe VBT and its application and also the need of VSEPR theory.</li> </ol>
<b>F.Y.B.Sc. (CBCS Pattern)</b>	<b>CH-202: Analytical Chemistry Paper-II</b>	<ol style="list-style-type: none"> <li>To understand concept of mole concentrations and various units of concentrations which will be helpful for preparation of solution.</li> <li>To understand stoichiometric calculation, Units such as ppm, ppb, ppt, density and specific gravity study.</li> <li>To learn basics of chromatography and its types.</li> <li>To understand measurement, working and application of pH meter.</li> <li>To learn separation, classification and determination of binary mixture.</li> </ol>
<b>F.Y.B.Sc. (CBCS Pattern)</b>	<b>CH-203: Practical Chemistry Paper-III</b>	<ol style="list-style-type: none"> <li>To understand Inorganic volumetric analysis and synthesis of Inorganic compounds.</li> <li>To understand analysis of commercial products.</li> <li>To learn about preparations and purification of organic compounds.</li> </ol>

### Semester-I

<b>Class</b>	<b>Course Title</b>	<b>Course Outcomes</b>
<b>S.Y.B.Sc.</b>	<b>CH-211: Physical &amp; Analytical Chemistry Paper-I 81311</b>	<ol style="list-style-type: none"> <li>To determine rate of reaction, order of reaction, techniques and solve problem related to it.</li> <li>To understand concepts in photochemistry, types, quantum yield and are able to solve numerical problems</li> <li>To understand concepts of distribution law, its thermodynamic proof, application and extraction theory.</li> <li>To learn sampling techniques, chemical analysis and application.</li> <li>To learn different errors and deviation useful in chemical determination and analysis.</li> <li>To develop skill in quantitative analysis, detection of different radicals, interfering ions and removal, common ion effect.</li> </ol>
	<b>CH-212: Inorganic &amp; Organic</b>	<ol style="list-style-type: none"> <li>To learn stereochemistry, different conformations of cyclohexane and comparison of stability. Baeyer's strain theory and stability of conformations.</li> </ol>

	<b>Chemistry Paper-II 81321</b>	<ol style="list-style-type: none"> <li>2. To learn types of reagents, organic reactions, Mechanism of Aldol condensation, Markonikov's and anti-Markonikov's addition, Saytzeff and Hoffmann elimination, SN1 and SN2 reactions and Hofmann rearrangement.</li> <li>3. To learn principles and process of metallurgy, difference between ore and minerals, calcination and roasting and smelting, methods for separation.</li> <li>4. To understand electrolysis of alumina and its refining, Aluminium and its alloys, purification of bauxite ore.</li> <li>5. To learn pyrometallurgy, physico chemical principles, different reactions in the blast furnace, properties of pig iron and wrought iron, methods for preparation of steel, their merits and demerits.</li> <li>6. Meaning of corrosion and passivity, types and factors affecting corrosion, prevention of metal from corrosion, theories of passivity.</li> </ol>
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### Semester-II

Class	Course Title	Course Outcomes
S.Y.B.Sc.	<b>CH-221: Physical &amp; Analytical Chemistry Paper-I 81312</b>	<ol style="list-style-type: none"> <li>1. To understand the concept of free energy , types and relation of free energy with other thermodynamic parameters, Chaperon equation, Clauses Chaperon equation and numerical problems</li> <li>2. To know different types of solution and understand vapors composition diagram, zoetrope's and able to solve numerical.</li> <li>3. To understand volumetric analysis, preparation of solution of different concentrations, calibration of glassware.</li> <li>4. To know the importance of indicators, types of titration and estimation by different methods.</li> </ol>
	<b>CH-222: Inorganic &amp; Organic Chemistry Paper-II 81322</b>	<ol style="list-style-type: none"> <li>1. To understand concept of different reagents used in the one type of conversion, Merits &amp; demerits of different reagents, Reagent based mechanisms and Use of different hydrogen donors for hydrogenation.</li> <li>2. To define and classify heterocyclic compounds, Use Huckel rule to predict aromaticity, suggest synthetic route for preparation of various heterocyclic compounds and Write and complete various reactions of heterocyclic compounds as well as predict products.</li> </ol>

		<ol style="list-style-type: none"> <li>3. To know importance of biochemistry, reactions of glucose, principle in Killani Fischer synthesis, stereoisomerism in monosaccharide, phenomenon of mutarotation, structure and bonding in maltose, lactose, cellobiose and sucrose, classification and structure of amino acids.</li> <li>4. To study d-block elements, physical and chemical properties and trends observed in the elements.</li> <li>5. To know the organ metallic compounds, metal-carbon bond, multiple bonding in CO, synthesis of binary metal carbonyls, 18 electron rule, catalytic properties and applications.</li> </ol>
	<b>CH-223: Practical Chemistry Paper-III</b>	<ol style="list-style-type: none"> <li>1. To verify theoretical principles by performing experiments</li> <li>2. To interpret the experimental data and obtain conclusions.</li> <li>3. To improve analytical skills while performing practicals.</li> <li>4. To correlate the theory with experiments and understand their importance.</li> </ol>

### Semester-III

Class	Course Title	Course Outcomes
T.Y.B.Sc.	<b>CH-313: Physical Chemistry Paper-I</b>	<ol style="list-style-type: none"> <li>1. To learn rate constant for third order reaction, energy of activation, Arrhenius equation, solve the sums based on it.</li> <li>2. To understand Ohm's law, Kohlrausch's law transport number. Debye-Huckel-Onsager Interionic Attraction theory, Asymmetry /Relaxation effect, Electrophoretic effect.</li> <li>3. To understand the term additive and constitutive properties, electrical polarization of molecule, induced and orientation polarization, dipole moment ,nature of wave Rotational / Microwave spectroscopy , Vibrational Spectra , Vibrational rotational Spectra , Raman Spectroscopy and Solve the numerical problems</li> <li>4. To understand terms in phase equilibria such as-system, phase in system, components in system, degree of freedom, one / two component system, phase rule and application of phase rule to one and two component system.</li> </ol>

<b>T.Y.B.Sc.</b>	<b>CH-323: Inorganic Chemistry Paper-II</b>	<ol style="list-style-type: none"> <li>1. To draw the MO energy level diagram for heteronuclear diatomic molecule.</li> <li>2. To compare the different approaches to bonding in Coordination compound.</li> <li>3. To understand the meaning of various terms involved in coordination chemistry</li> <li>4. To comment on the stereoisomerism in complexes with C.N. 4 &amp; 6.</li> </ol>
	<b>CH-333: Organic Chemistry Paper-III</b>	<ol style="list-style-type: none"> <li>1. To understand pKa and pKb of organic acids and bases, factors affecting the acidity and basicity of organic compounds.</li> <li>2. To understand stereochemistry, energy and stability of conformations of disubstituted cyclohexane.</li> <li>3. To understand mechanism, kinetics and comparison of SN1 &amp; SN2 reactions.</li> <li>4. To understand reactions of alkenes, alkynes and carbonyl compounds with reaction mechanism. Elimination reactions and their mechanism.</li> <li>5. To understand the aromatic electrophilic and nucleophilic substitution reactions, effect of activating and deactivating groups on rate and orientation in reaction products.</li> </ol>
	<b>CH-343: Analytical Chemistry Paper-IV</b>	<ol style="list-style-type: none"> <li>1. To understand principles of common ion effect and solubility product factors affecting solubility product.</li> <li>2. To understand electro gravimetric principle, principle, factors and applications of TGA and DTA.</li> <li>3. To learn principle, instrumentation, working and application of Spectrophotometer, AAS, FES.</li> <li>4. To understand construction, working, advantages, disadvantages of DME, polarography.</li> </ol>
	<b>CH-353: Industrial Chemistry Paper-V</b>	<ol style="list-style-type: none"> <li>1. To understand different processes actually run, safety measures to be adopted in industries, production of chemicals and processes involving in production.</li> <li>2. To learn regarding set up of small scale industry, different techniques to increase the production</li> </ol>
	<b>CH-E3: Agriculture Chemistry Paper-VI</b>	<ol style="list-style-type: none"> <li>1. To know agriculture chemistry, it's potential, basic concept of soil, its properties &amp; classification on the basis of pH.</li> <li>2. To know the different plant nutrients, their functions and deficiency symptoms, various</li> </ol>

		<p>techniques to protect the plants.</p> <p>3. To Identify the problematic soil and recommend method for their reclamation</p> <p>4. To have the knowledge of quality irrigation water, quality standard and analysis of irrigation water.</p>
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#### Semester-IV

Class	Course Title	Course Outcomes
T.Y.B.Sc.	<b>CH-314: Physical Chemistry Paper-I</b>	<ol style="list-style-type: none"> <li>1. To know emf, type of cells, reference electrode, Nernst Equation and equilibrium constant K of the cell reaction, liquid junction potential, classification of electrochemical cell and solve the numerical problems based on this topic.</li> <li>2. To classify nuclides, decay kinetics, measurement of radioactivity, application of radioisotopes and solve the numerical problems based on this topic.</li> <li>3. To understand crystalline and amorphous solids / anisotropic and isotropic solid, and laws of crystallography, Weiss and Millers Indices, Crystal system different planes, Bragg's experiment, Structure of NaCl Laue's and Bragg's method applications and solve the numerical problems.</li> <li>4. To understand concept of quantization, atomic spectra, wave particle duality, Uncertainty principle and its physical significance, Schrodinger wave equation, Wave function and its Interpretation, Degeneracy, application, solve the numerical problems.</li> </ol>
	<b>CH-324: Inorganic Chemistry Paper-II</b>	<ol style="list-style-type: none"> <li>1. To know the electronic configuration of lanthanides and actinides.</li> <li>2. To understand types of crystalline solids, different operations in stoichiometric molecules.</li> <li>3. To understand the bio-inorganic chemistry.</li> <li>4. To understand the formation of p-type and n-type semiconductor.</li> </ol>
	<b>CH-334: Organic Chemistry Paper-III</b>	<ol style="list-style-type: none"> <li>1. To understand carbanions and their synthetic application, retro synthesis, terms involved in it.</li> <li>2. To understand mechanism of Beckmann, Bayer-Villiger, Pinacol-pincolone, Curtis, Favorski, Claisen rearrangement reactions.</li> <li>3. To understand applications of UV, IR and NMR spectroscopy in structure determination.</li> </ol>

		4. To know the isolation, classification, synthesis and structure determination of terpenoids (Citral) and alkaloids (Ephedrine) using chemical.
	<b>CH-344: Analytical Chemistry Paper-IV</b>	<ol style="list-style-type: none"> <li>1. Principle, types, advantages and applications of solvent extraction, chromatography, electrophoresis.</li> <li>2. To know principle and working of GSC and GLC analysis, types of column, detectors</li> <li>3. To understand separation mechanism, instrumentation and application of HPLC.</li> <li>4. To understand nephelometry and turbidimetry as an analytical tool, their differences and application.</li> </ol>
	<b>CH-354: Industrial Chemistry Paper-V</b>	<ol style="list-style-type: none"> <li>1. To classify polymerization reactions, thermodynamic and transport properties of polymer, commercial polymers.</li> <li>2. To know importance of sugar industry, consumption (plantation white) sugar with flow diagram., cane juice extraction by various methods, clarification by processes like carbonation, Sulphitation, Phosphatation, etc.</li> <li>3. To understand types of surfactants, raw materials for detergents, washing action and detergents, detergent builders, additives.</li> <li>4. To learn preparation of dye intermediates, structural features, classification and applications of dyes.</li> <li>5. To know methods of production and pharmacological activity, meaning of the terms, synthesis and uses of few drug.</li> </ol>
<b>T.Y.B.Sc.</b>	<b>CH-D3: Dairy Chemistry Paper-VI</b>	<ol style="list-style-type: none"> <li>1. To know importance of the Dairy chemistry subject from the point of rural economy, composition of milk, its food &amp; nutritive value</li> <li>2. To understand the microbiology of the milk, various preservatives and adulterants, various milk proteins and their role for the human body.</li> <li>3. To know various milk products, their composition, manufacture and uses</li> <li>4. To identify preservative and adulterants in milk.</li> </ol>
	<b>CH-347: Physical Chemistry Practical-I</b>	<ol style="list-style-type: none"> <li>1. To determine rate constant, strength of acid, order of reaction, energy of activation</li> <li>2. To understand the variation of mutual solubility temperature with %concentration, effect of impurity on critical point.</li> <li>3. verify Langmuir and Freundlich adsorption</li> </ol>

		<p>isotherm, determine the molecular weight of polymer by using Ostwald viscometer</p> <ol style="list-style-type: none"> <li>To handle different instrument like pH meter, conductivity meter, potentiometer, colorimeter etc. and are able to determine different parameters.</li> <li>determine specific refractivity, molar refractivity using Abbe's Refractometer</li> <li>To determine the transport number of cation by moving boundary method.</li> </ol>
	<b>CH-348: Inorganic Chemistry Practical-II</b>	<ol style="list-style-type: none"> <li>To understand gravimetric and volumetric analysis of ores and alloy.</li> <li>To prepare a various inorganic complex and determine its % purity.</li> <li>To study binary mixture with removal of borate and phosphate</li> <li>To understand inorganic Qualitative analysis of mixture containing borates and phosphates.</li> <li>To visit a chemical industry.</li> </ol>
	<b>CH-349: Organic Chemistry Practical-III</b>	<ol style="list-style-type: none"> <li>To understand quantitative estimation of organic compounds from the given sample solution.</li> <li>To learn synthesis of organic compounds and checking their purity.</li> <li>To perform qualitative analysis of binary mixture and identification of components by performing different kinds of reactions on them.</li> </ol>

## DEPARTMENT OF BOTANY

Class	Course Name	Course Code	Course Outcomes
<b>Semester-I F.Y.B.Sc</b>	<b>Plant life &amp; Utilization I</b>	<b>BO.111</b>	<ol style="list-style-type: none"> <li>1. Know the economic importance of cryptogams.</li> <li>2. Identify the diversity of life forms in ecosystem.</li> <li>3. Well understand about entire life cycle of different plants.</li> <li>4. Easily classify the different plant groups through classification system</li> </ol>
	<b>Plant Morphology and Anatomy</b>	<b>BO.112</b>	<ol style="list-style-type: none"> <li>1. Well define about vegetative &amp; reproductive structure.</li> <li>2. Able to describe morphological characters.</li> <li>3. Understand the internal structure of different tissues.</li> <li>4. Use of practical knowledge in research purpose.</li> </ol>
<b>Semester-II F.Y.B.Sc</b>	<b>Plant Life And Utilization II</b>	<b>BO.121</b>	<ol style="list-style-type: none"> <li>1. Know the economic importance of higher plants.</li> <li>2. Understand the utilization of phanerogams in different fields.</li> <li>3. Understand the life cycle of cycus &amp; nephrolepis.</li> <li>4. Develop the practical knowledge.</li> </ol>
	<b>Principles of Plant Science</b>	<b>BO.122</b>	<ol style="list-style-type: none"> <li>1. Know the different physiological concepts related to plants.</li> <li>2. Understand the phases of plant life cycle.</li> <li>3. Students well understand molecular level concepts of plants.</li> <li>4. Develop the practical knowledge in students.</li> </ol>
<b>S.Y.B.Sc Semester-III</b>	<b>Taxonomy Of angiosperms &amp; Plant Ecology</b>	<b>BO.231</b>	<ol style="list-style-type: none"> <li>1. Students well understand about ecological groups.</li> <li>2. Comparative account among plants families.</li> <li>3. Understand the importance of taxonomy &amp; systematic.</li> <li>4. To gain proficiency in use of key &amp; identification manuals for identifies any unknown plant species.</li> </ol>
	<b>Plant Physiology</b>	<b>BO.232</b>	<ol style="list-style-type: none"> <li>1. Acquire the basic knowledge about growth &amp; development in plants.</li> <li>2. Understand the relationship of plants with</li> </ol>

			<p>water.</p> <ol style="list-style-type: none"> <li>3. Know the importance of photosynthesis &amp; metabolic processes in plants.</li> <li>4. Acquired the practical skills which are useful in research.</li> </ol>
<b>S.Y.B.Sc Semester- IV</b>	<b>Plant Anatomy &amp; Embryology</b>	<b>BO.241</b>	<ol style="list-style-type: none"> <li>1. Students know about development of monocot &amp; dicot embryo.</li> <li>2. Well define characteristics of plant development.</li> <li>3. Knowledge about various tissue system.</li> <li>4. Students well perform laboratory techniques.</li> </ol>
	<b>Plant Biotechnology</b>	<b>BO.242</b>	<ol style="list-style-type: none"> <li>1. Use of transgenic technology for improvement of quality of plant.</li> <li>2. Understand the advantage of in vitro propagation.</li> <li>3. Realize the importance of plant tissue culture.</li> <li>4. Develop the certain strategies against plant pest and diseases.</li> </ol>

## DEPARTMENT OF MICROBIOLOGY

### SEM - I

Class	Name of Paper	Subject code	Course wise Outcomes
F.Y.B.Sc	Introduction to Microbial World	MB 111	<ol style="list-style-type: none"> <li>1. Students learnt the scientific methods and understood that the history of science is the embodiment of scientific knowledge.</li> <li>2. As an introductory part of Microbiology, students got the basic ideas and practices from the contribution of several Microbiologists in the field of microbiology.</li> <li>3. They come to know about the various diverse organism of microbial world like algae, fungi, protozoa and their general characteristics and importance.</li> <li>4. They got knowledge about DNA ,its structure, its replication and its function</li> </ol>
	Basic Techniques in Microbiology	MB 112	<ol style="list-style-type: none"> <li>1. Students got knowledge about Structure ,Working, Microscope, its Properties &amp; Role</li> <li>2. Students gained knowledge about various Staining techniques</li> <li>3. They got information about various types of Stains</li> <li>4. Students understood the importance of Sterilization &amp; Disinfection</li> <li>5. They learned the types of Sterilization &amp; Disinfection</li> </ol>
	Practical course based on Paper I & Paper II	MB 113	<ol style="list-style-type: none"> <li>1. Students were able to perform various staining techniques</li> <li>2. Students were introduced to various instruments used in Microbiology laboratory</li> </ol>
S.Y.B.Sc	Medical Microbiology and Immunology	MB 211	<ol style="list-style-type: none"> <li>1. Students known about various Blood Group</li> <li>2. They gained knowledge about Formation of Blood cells</li> </ol>
	Bacterial Physiology and Fermentation technology	MB 212	<ol style="list-style-type: none"> <li>1. Students came across new fermented products such as Cheese, Vitamin, etc</li> <li>2. Students got the knowledge about fermentation industry</li> </ol>
	Practical course based on Paper I	MB 213	<ol style="list-style-type: none"> <li>1. Students studied the biochemical characterization of bacteria</li> </ol>

	& Paper II		2. Students known about the industrially important microorganisms
T.Y.B.Sc	Medical Microbiology I	MB 331	<ol style="list-style-type: none"> <li>1. Understood the human anatomy, pathogens associated with diseases.</li> <li>2. Acquired knowledge of principles underlying establishment of pathogens in human body.</li> </ol>
	Genetics and molecular biology	MB332	<ol style="list-style-type: none"> <li>1. To exhibit a knowledge base in Genetics and Molecular Biology</li> <li>2. To understand the central dogma of Molecular Biology</li> <li>3. To construct genetic map of bacteria and fungi</li> <li>4. To get introduced to concept of recombination and bacteriophage Genetics</li> <li>5. To understand the concept cloning in bacteria</li> <li>6. To demonstrate the knowledge of common and advanced laboratory practices in Molecular Biology</li> </ol>
	Enzymology	MB333	<ol style="list-style-type: none"> <li>1. To understand methods of active site determination, role of enzymes and its cofactors in microbial physiology.</li> <li>2. To learn to perform enzyme assay, purification and quantification of enzymes activity, enzyme kinetics in terms of initial, final velocity, mathematical expression of enzyme kinetic parameters.</li> <li>3. To correlate regulation of metabolism at enzymatic levels and apply, methodology for commercial applications of enzymes</li> <li>4. To learn mechanisms of transport of solutes across the membrane</li> <li>5. To get acquainted with mechanism of biosynthesis and degradation of bio molecules</li> </ol>
	Immunology I	MB334	<ol style="list-style-type: none"> <li>1. Understand immune system structure, composition, function and comparison of different types of immunity.</li> <li>2. Acquire knowledge about antigens, Recognition of pathogens; antigen processing and presentation; Immunity to infection and pathological consequences of immuno deficiencies.</li> <li>3. To learn the applications of Immunology in monoclonal antibodies, vaccines production and Immunotherapy.</li> </ol>

			<ol style="list-style-type: none"> <li>4. Understand abnormal working of Immune system in hypersensitivity, auto immune diseases, immune tolerance and transplantation immunology.</li> <li>5. To develop strategies for Diagnosis of diseases based on antigen and antibody reactions with emphasis on prevailing communicable diseases.</li> </ol>
	Fermentation Technology I	MB335	<ol style="list-style-type: none"> <li>1. To impart technical understanding of commercial fermentations.</li> <li>2. To apply classical, advanced strain improvement and isolation techniques for fermentation processes. To optimize and sterilize media used in fermentation industry for commercially economical and efficient fermentations.</li> <li>3. To recover the product using suitable methods and ensuring quality of the finished product by quality assurance tests.</li> <li>4. To acquaint fermentation economics, process patentability, process validation.</li> <li>5. To comprehend the large scale productions of commercially significant fermentation products of classical and recent significance</li> </ol>
	Food and Dairy Microbiology	MB336	<ol style="list-style-type: none"> <li>1. To describe food safety problems and solutions in India and global scale.</li> <li>2. Identify and classify types of microorganisms in food processing and compare their Characteristics and behavior</li> <li>3. To learn food classification based on their perish ability, intrinsic and extrinsic factors affecting the growth of microbes in foods, role of microorganisms in food fermentation.</li> <li>4. To acquire knowledge about food spoilage, food borne diseases, predisposition and preventive and control measures.</li> <li>5. To apply principles of sanitation, heat treatment, irradiation, modified atmosphere, antimicrobial preservatives and combination of method (hurdle concept) to control microbial growth with emphasis on HACCP guidelines.</li> </ol>

## Sem II

Class	Name of Paper	Subject code	Course wise Outcomes
F.Y.B.Sc	Bacterial Cell and Biochemistry	MB 121	<ol style="list-style-type: none"> <li>1. Students got familiar with the parts of bacterial cells.</li> <li>2. Students got knowledge with classification of bacteria and introduction to bergey's manual</li> </ol>
	Microbial Cultivation and Growth	MB 122	<ol style="list-style-type: none"> <li>1. Students well known about the nutritional requirement for the growth of Microorganisms</li> <li>2. Students were able to perform different microscopic technologies used in industrial sectors</li> </ol>
	Practical Course Based On Paper I and II	MB 123	<ol style="list-style-type: none"> <li>1. Students practiced the method of isolation of microorganisms</li> <li>2. Students known about cultivation of microorganisms</li> <li>3. Students learned to preserve the microbial cultures</li> </ol>
S.Y.B.Sc	Bacterial Genetics	MB 221	<ol style="list-style-type: none"> <li>1. Students became familiar with ii. Types of nucleic acids i.e (DNA and RNAs)</li> <li>2. Students understood broadly about Plasmids</li> <li>3. They got knowledge about Gene Expression</li> <li>4. They understood the mechanism of DNA replication</li> </ol>
	Air ,Water and Soil Microbiology	MB 222	<ol style="list-style-type: none"> <li>1. Students understood about the organisms present in Air ,Water And Soil</li> <li>2. They understood the Methods of Air sampling and types of air samplers</li> <li>3. Students understood the Role of microorganisms in composting and humus formation</li> <li>4. Students got brief knowledge about the microorganisms involved in the Biofertilizers, Biocontrol agents</li> </ol>
	Practical course based on Paper I & Paper II	MB 223	<ol style="list-style-type: none"> <li>1. 1. Students got knowledge about the methods of air sampling</li> <li>2. Students got idea of bacteriological test of water</li> </ol>
	Medical Microbiology II	MB 341	<ol style="list-style-type: none"> <li>1. Developed the identification systems for microbial disease diagnosis, disease treatment and prevention measures.</li> <li>2. Comprehension of pathogenesis of specific</li> </ol>

T.Y.B.Sc			pathogens causing microbial diseases.
	Genetics and Molecular Biology II	MB 342	<ol style="list-style-type: none"> <li>1. To exhibit a knowledge base in Genetics and Molecular Biology</li> <li>2. To understand the central dogma of Molecular Biology</li> <li>3. To construct genetic map of bacteria and fungi</li> <li>4. To get introduced to concept of recombination and bacteriophage Genetics</li> <li>5. To understand the concept cloning in bacteria</li> <li>6. To demonstrate the knowledge of common and advanced laboratory practices in Molecular Biology</li> </ol>
	Metabolism	MB 343	<ol style="list-style-type: none"> <li>1. To understand methods of active site determination, role of enzymes and its cofactors in microbial physiology.</li> <li>2. To learn to perform enzyme assay, purification and quantification of enzymes activity, enzyme kinetics in terms of initial, final velocity, mathematical expression of enzyme kinetic parameters.</li> <li>3. To correlate regulation of metabolism at enzymatic levels and apply, methodology for commercial applications of enzymes</li> <li>4. To learn mechanisms of transport of solutes across the membrane</li> <li>5. To get acquainted with mechanism of biosynthesis and degradation of bio molecules</li> </ol>
Immunology II	MB 344	<ol style="list-style-type: none"> <li>1. Understand immune system structure, composition, function and comparison of different types of immunity.</li> <li>2. Acquire knowledge about antigens, Recognition of pathogens; antigen processing and presentation; Immunity to infection and pathological consequences of immuno deficiencies.</li> <li>3. To learn the applications of Immunology in monoclonal antibodies, vaccines production and Immunotherapy.</li> <li>4. Understand abnormal working of Immune system in hypersensitivity, auto immune diseases, immune tolerance and transplantation immunology.</li> <li>5. To develop strategies for Diagnosis of diseases</li> </ol>	

			based on antigen and antibody reactions with emphasis on prevailing communicable diseases.
	Fermentation Technology II	MB 345	<ol style="list-style-type: none"> <li>1. To impart technical understanding of commercial fermentations.</li> <li>2. To apply classical, advanced strain improvement and isolation techniques for fermentation processes. To optimize and sterilize media used in fermentation industry for commercially economical and efficient fermentations.</li> <li>3. To recover the product using suitable methods and ensuring quality of the finished product by quality assurance tests.</li> <li>4. To acquaint fermentation economics, process patentability, process validation.</li> <li>5. To comprehend the large scale productions of commercially significant fermentation products of classical and recent significance</li> </ol>
	Agricultural and Environmental Microbiology	MB 346	<ol style="list-style-type: none"> <li>1. To understand plant growth improvement with respect to disease resistance, environment tolerance.</li> <li>2. To correlate stages of plant disease development, epidemiology and symptom based classification, control methods.</li> <li>3. To understand the importance of microorganisms in sustainable agriculture, biotechnological application of bio films, edible vaccines.</li> <li>4. To correlate Soil Micro biome and Role of microorganisms in soil health</li> <li>5. To determine the use of Microorganisms as tools in plant genetic engineering.</li> </ol>
	Practical Course I- Applied Microbiology	MB 347	<ol style="list-style-type: none"> <li>1. Students were able to perform the testing of the milk and dairy products</li> <li>2. Students came across about enrichment, isolation, preparation and application of bioinoculat</li> </ol>
	Practical Course II- Biochemistry and Molecular biology	MB 348	<ol style="list-style-type: none"> <li>1. Students known about enzyme production (Screening, Production)</li> <li>2. Students able to estimate blood sugar, blood urea, serum cholesterol, serum protein</li> </ol>
	Practical Course III Diagnostic Microbiology and Immunology	MB 349	<ol style="list-style-type: none"> <li>1. Students were able to perform blood grouping</li> <li>2. They were also able to perform haemoglobin, ESR, PCV, RBC, WBC counting</li> </ol>

**DEPARTMENT OF MATHEMATICS**

Class	Course Title	Outcome
<p style="text-align: center;"><b>SEM I</b></p> <p style="text-align: center;"><b>F.Y.B.Sc.</b></p>	<p><b>MT-111</b> <b>Algebra</b></p>	<ol style="list-style-type: none"> <li>1. Define Basic concepts of Set, Relations and functions.</li> <li>2. Use the division algorithm, Euclidian algorithm, in computations and proofs about the integers</li> <li>3. Learn about some important results in the theory of numbers including the prime number theorem, describe the properties of prime numbers,</li> <li>4. Show that every positive integer can be expressed as product of prime power in unique way</li> <li>5. Write a formula for the number of positive integers less than n that are relatively prime to n</li> <li>6. Define congruence and describe the properties of congruence</li> <li>7. State Chinese Remainder Theorem, Fermat's and Wilson's theorem</li> <li>8. Compute sums, products, quotients, conjugate, modulus, and argument of complex numbers .</li> <li>9. Apply De-Moivre's theorem to find the nth roots of unity.</li> </ol>
	<p><b>MT-112</b> <b>Calculus I</b></p>	<ol style="list-style-type: none"> <li>1. Describe the Algebraic and Order Properties of R</li> <li>2. Understand absolute value function and its properties, triangle inequality and its consequences, neighborhood of a point on real line.</li> <li>3. Define of Upper bound, Lower bound, supremum, infimum of subsets of R, completeness property of R.</li> <li>4. Know Archimedean property and its consequences, the density theorem</li> <li>5. Learn to define sequence in terms of functions from to a subset of .</li> <li>6. Recognize bounded, convergent, divergent, Cauchy and monotonic sequences and to calculate their limit superior, limit inferior, and the limit of a bounded sequence.</li> <li>7. Learn to check function is continuous understand the consequences of the intermediate value theorem for continuous functions.</li> </ol>
	<p><b>MT-113</b> <b>Mathematics</b> <b>Practical</b></p>	<ol style="list-style-type: none"> <li>1. Learn Maxima software.</li> <li>2. Learn to find graphs, roots and primes integer using maxima software</li> <li>3. Problem solve on algebra and calculus by using maxima software.</li> </ol>

		4. Knowledge of application of mathematics
<b>SEM III</b>  <b>S.Y.B.Sc.</b>	<b>MT-231- Calculus of Several Variables</b>	<ol style="list-style-type: none"> <li>1. Learn conceptual variations while advancing from one variable to several variables in calculus.</li> <li>2. Understand Functions of two variables, Domain and Range,</li> <li>3. Graphs, Level Curves, Functions of Three or More Variables, Limits and Continuity.</li> <li>4. Applications of multivariable calculus tools in physics, economics, optimization, and understanding the architecture of curves and surfaces in plane and space etc.</li> <li>5. Understand Partial Derivatives</li> <li>6. Learn Higher Derivatives, Clairaut's Theorem, Partial Differential Equations, Wave equation, Chain Rule, Homogeneous Functions, Euler's theorem.</li> <li>7. Recognize the major classification of PDEs and the qualitative differences between the classes of equations.</li> <li>8. Be competent in solving linear PDEs using classical solution methods</li> <li>9. Understand Extreme values of functions of two variables.</li> <li>10. Learn Necessary conditions for extreme values, Second Derivative Test, Lagrange Multipliers</li> <li>11. Inter-relationship amongst the line integral, double and triple integral formulations.</li> <li>12. Sketch curves in Cartesian and polar coordinate systems.</li> </ol>
	<b>MT-232(A) Numerical Methods &amp; it's applications</b>	<ol style="list-style-type: none"> <li>1. Obtain numerical solutions of algebraic and transcendental equations.</li> <li>2. Learn about various interpolating and extrapolating methods.</li> <li>3. Define Basic concepts of operators <math>\Delta, E, \nabla</math></li> <li>4. Find the difference of polynomial</li> <li>5. Solve problems using Newton forward formula and Newton backward formula.</li> <li>6. Derive Newton forward formula and Newton backward interpolation formula.</li> <li>7. Apply Lagrange's Interpolation formula when difference interval are unequal</li> <li>8. Understood the concept of Numerical Differentiation (Derivatives using Newton's forward difference</li> </ol>

		formula) 9. Apply various numerical methods in real life problems 10. Derive general quadrature formula 11. Derive Trapezoidal rule, Simpson's 1/3 and 3/8 rules -using general quadrature formula 12. Solve initial and boundary value problems in differential equations using numerical methods. 13. Find the solution of ordinary differential equation of first by Taylor's Series method, Picard's method of successive approximations, Euler method, Modified Euler's methods and Runge-Kutta methods
	<b>MT-233 Mathematics Practical</b>	1. Learn Maxima software. 2. Problem solve on analytic geometry and calculus by using maxima software. 3. Problem solving on geometry and calculus. 4. Give the knowledge of geometry using maxima software.

**Course outcome : B.Sc. (Mathematics)**

<b>Class</b>	<b>Course Title</b>	<b>Outcome</b>
<b>SEM II F.Y.B.Sc.</b>	<b>MT-121 Analytical Geometry</b>	1. Describe the various forms of equation of a plane, straight line, Sphere, Cone and Cylinder. 2. Find the angle between planes, Bisector planes, Perpendicular distance from a point to a plane, Image of a line on a plane, Intersection of two lines 3. Define coplanar lines and illustrate 4. Compute the angle between a line and a plane, length of perpendicular from a point to a line 5. Define skew lines 6. Calculate the Shortest distance between two skew lines
	<b>MT-122 Calculus II</b>	1. Assimilate the notions derivative of a function at a point 2. Calculate the limit and examine the continuity of a function at a point. 3. Apply derivative tests in optimization problems appearing in social sciences, physical sciences, life sciences and a host of other disciplines. 4. Understand $L'$ Hospital Rule and Successive Differentiation 5. Understand the genesis of ordinary differential equations.

		<p>6. solve first order differential equations utilizing the standard techniques Learn various techniques of getting exact solutions of solvable first order differential equations and linear differential equations.</p> <p>7. 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 equations.</p> <p>8. Formulate mathematical models in the form of ordinary differential equations to suggest possible solutions of the day to day problems arising in physical, chemical and biological disciplines.</p>
	<b>MT-123 Mathematics Practical.</b>	<p>1.Solves Problem on Calculus and analytical geometry</p> <p>2.Introduction to application of mathematics in real life. Learn to build logical concept.</p>
<b>SEM IV S.Y.B.Sc.</b>	<b>MT-241 Linear Algebra</b>	<p>1.Solve linear systems (using matrices) by Gauss elimination and Gauss-Jordan elimination method</p> <p>2.Understand the concepts of vector spaces, subspaces, bases, dimension and their properties.</p> <p>3.Recognize the concepts of the term linear independence, linear dependence, basis, and dimension, and apply these concepts to various vector spaces and subspaces</p> <p>4.Understand about Row, Column and Null Space of a matrix, and Rank and nullity</p> <p>5.Discuss the linear transformations, properties and equality</p> <p>6.Understand the concepts of Kernel and range</p> <p>7.State Rank-Nullity theorem</p> <p>8.Use matrix algebra and the related matrices to linear transformations</p> <p>9.Relate matrices and linear transformations, compute eigen values and eigen vectors of linear transformations.</p> <p>10. Find the characteristic equation, eigen values and eigen vectors of a matrix.</p> <p>11. State Cayley- Hamilton theorem</p> <p>12. Learn basic Matrix Transformations in <math>R^2</math> and <math>R^3</math></p> <p>13. Understand linear Isomorphism</p>

	<p><b>MT-242(B)</b> <b>Dynamical</b> <b>Systems</b></p>	<ol style="list-style-type: none"> <li>1. Students understand fundamental concepts related to modeling time dependent phenomena. Students extend their knowledge of calculus to solve problems in difference equations.</li> <li>2. Students improve problem solving skills.</li> <li>3. Students will cooperate when appropriate to help each other understand the concepts of dynamical systems and to learn how to function in a work.</li> </ol>
	<p><b>MT-243</b> <b>Mathematics</b> <b>Practical</b></p>	<ol style="list-style-type: none"> <li>1. To demonstrate used of interpolation method in numerical analysis.</li> <li>2. Use computational techniques and algebraic skills essential for the study of systems of Linear equations, matrix algebra, vector spaces, eigenvalues and eigenvectors, Orthogonality and Diagonalization</li> </ol>

**DEPARTMENT OF STATISTICS**

Sr No.	Course Name	Course Code	COURSE WISE OUTCOMES
F.Y.B.Sc (CBCS) Semester-I	Descriptive statistics-I	ST-111	1) Understand data related concepts 2) Develop the practical knowledge. 3) Students well understand about Statistical industrial work. 4) Students well understand about practical knowledge.
	Discrete probability & probability Distributions-I	ST -112	1) Understand the concepts of random variable, probability distribution and Correlation and regression Understand the detailed concepts of probability distributions. 2) Students well understand about Statistical industrial work. 3) Students well understand about practical knowledge.
Semester-II	Descriptive Statistics-II	ST-121	1) Students learn to design data collection plans and basic tools of descriptive statistics 2) Develop the practical knowledge. 3) Students well understand about Statistical industrial field work. 4) Students well understand about practical knowledge.
	Discrete probability & probability Distributions-II	ST-122	1) Understand the basic Operators in calculus of finite difference and analytical functions. 2) Develop the practical knowledge in students.
S.Y.B.Sc (CBCS) Semester-III	Discrete probability Distribution & Time Series	ST-231	1) Students learn to design data collection plans and basic tools of descriptive statistics. 2) Students well understand about Statistical industrial work. 3) Students well understand about practical knowledge.
	Continuous Probability Distributions	ST-232	1) Students learn different types of continuous distribution with their properties and applications. 2) Students well understand about Statistical industrial work. 3) Students well understand about practical knowledge.

Semester-II	Test of Significance And Statistical Methods	ST-241	<ol style="list-style-type: none"> <li>1) Students well understand about Statistical test of significance.</li> <li>2) Students well understand about Statistical analysis.</li> <li>3) Students well understand about Statistical industrial work.</li> <li>4) Students well understand about practical knowledge.</li> </ol>
	Sampling Distributions And Exact Tests	ST-242	<ol style="list-style-type: none"> <li>1) Understand the concept of sampling distribution of a statistic and its properties, difference between parameter and statistic.</li> <li>2) Students well understand about Statistical industrial work.</li> <li>3) Students well understand about practical knowledge.</li> </ol>

**DEPARTMENT OF PHYSICS**

Sr No.	Course Name	Course Code	Course Outcomes
F.Y.B.Sc Semester- I	Mechanics & Properties of Matter	PHY -111	1. To utilize basic properties of materials such as elastic & Poisson's ratio. 2. Determine the deflection & deformation of equation.
	Physics Principles & Applications	PHY -112	1. To know units of pressure, temperature, density & mass. 2. Calculate changes in kinetic & potential energy. 3. To define heat, work & temperature. 4. Study of Diesel & Otto cycles & Isothermal & Adiabatic process.
Semester- II	Heat & Thermodynamics	PHY-121	1. To know units of pressure, temperature, density & mass. 2. Calculate changes in kinetic & potential energy. 3. Calculate absolute temperature & pressure. 4. To able to state first law of thermodynamics.
	Electricity & Magnetism	PHY-122	1. Describe & explain the behavior of permanent magnets including induced magnetism. 2. Describe how magnetic fields arise from moving charges. 3. Explain magnetization and demagnetization of ferromagnetic material in terms of magnetic domain.
S.Y.B.Sc Semester- III	Mathematical Methods in Physics-I	PHY-231	1. Use of complex analysis in solving physical problems. 2. To solve ordinary & partial differential equation. 3. Use of orthogonal polynomials. 4. Use of special functions, Green's Function & calculus variable.
	Electronics	PHY- 232(A)	1. The current voltage of semiconductor device. 2. Design & analyzed of electronic

			<p>circuit.</p> <p>3. Evaluate frequency response to understand behavior of electronic circuit.</p> <p>4 Developed a digital logic &amp; apply it to solve real life problem.</p>
Semester-IV	Oscillations, Waves & Sound	PHY-241	<p>1 Be able to recognize &amp; use a mathematical oscillator equations &amp; wave equation &amp; derive the equation for certain system.</p> <p>2 Describe &amp; calculate what happens when waves move from one medium to another &amp; be able to explain dispersion and group &amp; phase, velocity.</p>
	Optics	PHY-242	<p>1. Describe the optical principle of thick lens &amp; optical aberration.</p> <p>2. Apply Fourier analysis to describe optical phenomena.</p> <p>3. Solve problem in optics by selecting the appropriate equation &amp; performing numerical or analytical calculations.</p> <p>4. To perform laboratory experiment in optics.</p>
T.Y.B.Sc Semester-I	Mathematical Methods in Physics-II	PHY-331	<p>1. Use of complex analysis in solving physical problems.</p> <p>2. To solve ordinary &amp; partial differential equation.</p> <p>3. Use of complex variables.</p> <p>4. Use of vector algebra, study of vector properties &amp; vector analysis.</p>
	Solid State Physics	PHY-332	<p>1. Acquire basic concepts about crystalline lattices.</p> <p>2. Understand origin of energy bands in solid.</p> <p>3. Understand importance of dynamics of electrons in conductance properties of materials.</p> <p>4. Understand importance of crystalline order in solid.</p> <p>5. Understand importance of quantum behavior of electrons in metals.</p>

	Classical Mechanics	PHY-333	<ol style="list-style-type: none"> <li>1. To utilize basic properties of materials such as elastic &amp; Poisson's ratio.</li> <li>2. Determine the deflection &amp; deformation of equation.</li> <li>3. Analysis of of composite beams &amp; shaft.</li> </ol>
	Atomic & Molecular Physics	PHY-334	<ol style="list-style-type: none"> <li>1. The ability to describe different types of atomic &amp; molecular spectra &amp; related instruments.</li> <li>2. Understanding rotational, vibration, electronic &amp; Raman spectra of molecules.</li> <li>3. Describe electron spin &amp; nuclear magnetic resonance spectroscopy.</li> <li>4. Identify atomic effect as space quantization &amp; Zeeman effect.</li> </ol>
	Computational Physics	PHY-335	<ol style="list-style-type: none"> <li>1 To learn the basic of scientific numerical simulation &amp; modeling.</li> <li>2 To learn how to interpret &amp; analyze dada visually both during &amp; after computation.</li> <li>3To learn through direct experience the use of scientific work stations in thinking creatively&amp; solving problems.</li> </ol>
Semester-II	Classical Electrodynamics	PHY-341	<ol style="list-style-type: none"> <li>1. Describe the nature of electromagnetic wave.</li> <li>2. The ability to use electric field due to current distribution.</li> <li>3. To analyzing the electromagnetic field due to time varying charge.</li> <li>4. To explain the charge particles &amp; radiation.</li> </ol>
	Quantum Mechanics	PHY-342	<ol style="list-style-type: none"> <li>1. To apply the variation method.</li> <li>2. To solve time dependent &amp; independent Schrodinger equation.</li> <li>3. Combine Spin &amp; angular moments.</li> <li>4. Apply perturbation theory to solve simple problems.</li> </ol>
	Thermodynamics &	PHY-343	<ol style="list-style-type: none"> <li>1. To know units of pressure,</li> </ol>

	Statistical Physics		<p>temperature, density &amp; mass.</p> <p>2. Calculate changes in kinetic &amp; potential energy.</p> <p>3. Calculate absolute temperature &amp; pressure.</p> <p>4. To able to state fist law of thermodynamics.</p>
	Nuclear Physics	PHY-344	<p>1. The ability to describe different types of atomic &amp; molecular spectra &amp; related instruments.</p> <p>2. Astro-particle physics studies of elementary particles.</p> <p>3. Describe electron spin &amp; nuclear magnetic resonance spectroscopy.</p>
	Electronics/Advanced Electronics	PHY-345	<p>1. The ability to describe different types of atomic &amp; molecular spectra &amp; related instruments.</p> <p>2. Astro-particle physics studies of elementary particles.</p> <p>3. Describe electron spin &amp; nuclear magnetic resonance spectroscopy.</p>
	Laser	PHY-346(K)	<p>1. To develop research &amp; technology outcomes.</p> <p>2. To develop &amp; construct laser based machining center.</p> <p>3. Latest development in scanner technology.</p> <p>4. Use in drilling, cutting, military, medical, industry etc.</p>

  
**Co-ordinator**  
 Internal Quality Assurance Cell (IQAC)  
 M. S. Kakade College, Someshwarnagar



  
**PRINCIPAL**  
 MUGUTRAO SAHEBRAO KAKADE COLLEGE,  
 SOMESHWARNAGAR, TAL. BARAMATI, DIST. PUNE:412306