





Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur.

Programme Outcomes, Programme Specific Outcomes & Course Outcomes

Programme Outcomes of the Commerce Faculty:

Name of the	Programme Outcomes	
Programme B. Com.	After completing three years for Bachelors in Commerce (B.Com.)	
Di Comi	programme students will be able to:	
	Develop numerical abilities of students.	
	2. Create awareness of law and Legislations related to commerce and	
	business.	
	3. Introduce recent trends in Business, Organizations and Industries.	
	4. Acquire practical skills related with banking and other business.	
	5. Acquire practical knowledge in Income Tax & GST.	
	6. Inculcate Account writing Skill.	
	7. Analyse basic concepts of Business, industries and Business	
	Environment	
	8. Analyse consumer behaviour in markets and market trends	
	9. Evaluate Accounting and auditing skill of firms and industries	
	10. Develop entrepreneurship skill and start his/her own business unit	
	11. Find an opportunity of Job in the field of Insurance, Banking, Transport	
	and Cooperation	
	12. Develop communication skills	
M. Com.	After completing three years for Master in Commerce (M.Com.)	
Advance	programme students will be able to:	
Accountancy	1. M.Com programs provide specialized knowledge and advanced skills in	
	areas such as finance, accounting, marketing, economics, management, and	
	more. Graduates are equipped with in-depth understanding and expertise in	

their chosen field.

- 2. M.Com graduates often find themselves better positioned for career advancement. They may qualify for higher-level positions, increased responsibilities, and leadership roles within their respective industries.
- 3. Due to their advanced skills and specialized knowledge, M.Com graduates tend to earn higher salaries compared to those with only a bachelor's degree. This can be particularly true for roles that require a deep understanding of financial and business concepts.
- 4. The diverse skillset gained during an M.Com program opens doors to various job opportunities across sectors such as banking, finance, consulting, marketing, research, academia, and more.
- 5. M.Com programs often include research projects and assignments that enhance graduates' ability to gather, analyze, and interpret data. This skillset is highly valued in roles requiring data-driven decision-making.
- 6. Graduates with an M.Com degree might have the knowledge and skills needed to start and manage their own businesses. They can apply their understanding of financial management, marketing, and business strategy to their entrepreneurial endeavors.
- 7. M.Com graduates can pursue careers in academia, research, and teaching. With additional qualifications, such as a Ph.D., they can become professors and contribute to the academic community. 8. The global nature of business today means M.Com graduates are well-equipped to work in international markets and contribute to the success of multinational corporations.
- 9. M.Com programs often provide opportunities to connect with professors, industry experts, and fellow students. These connections can lead to valuable professional relationships and opportunities.
- 10. Pursuing an M.Com degree requires dedication, critical thinking, and self-discipline. Graduates often experience personal growth as they navigate through challenging coursework and projects.

- 11. M.Com graduates can contribute to research and innovation within their field. Their understanding of advanced concepts can lead to insights that drive industry progress.
- 12. Having an M.Com degree can enhance your credibility and recognition within your chosen industry, positioning you as a subject matter expert.

Programme Outcomes of the Arts Faculty:

Name of the	Programme Outcomes
Programme B. A.	After the completion of three years of Bachelor in Arts (B. A.)
	Programee students will be able to:
	Express their views and opinions regarding socio-political and economic issues of present day.
	2. Communicate with others confidently and use interpersonal skills.
	3. Develop their overall personality.
	4. Make decisions about their career and personal lives.
	5. Behave as a responsible citizen of nation.
	6. Elaborate language, history and culture of our society.
	7. Explain various life skills.
	8. Develop research attitude and believe in scientific temperament.
	9. Develop entrepreneurship skills.
	10. Be employable in various governmental and non-governmental
	organizations.
	11. Promote active citizenship and community engagement
	12. Analyse and critically reflect on complex problems incorporating multiple perspectives and innovative thinking.
	13. Collaborate respectfully with others, individually and in teams
	14. Understand how cultural, historical, geographical, political,
	linguistic, and environmental forces shape the world and recognize the role of the individual within communities to effect
	change.

Programme Outcomes of the Science Faculty:

Name of the	Programme Outcomes
Programme	
B. Sc.	PO1: Scientific temper will be developed in Students.
	PO2: Students will acquire basic Practical skills & Technical knowledge along with domain knowledge of different subjects in the science stream.
	PO3: Students will become employable; they will be eligible for career opportunities in Industry, or will be able to opt for entrepreneurship.
	PO4: Students will possess basic subject knowledge required for higher studies, professional and applied courses like Management Studies, Law etc.
	PO5: Students will be aware of and able to develop solution oriented approach towards various Social and Environmental issues.
	PO6: Students should be learn toxic elements, the spectroscopic method, stereochemistry, method extraction of metal, Classical and instrumental method of analysis.







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* Programme Specific Outcomes of the Commerce Faculty:

Name of the	Programme Specific Outcomes
Programme	
B. Com. III	1. Explain the nature, functioning and issues related to money, banks and non-
	banking institution in India to the student.
	2. Acquaint the students fully with the changing role of Reserve Bank of India
	and financial institutions in the process of growth and development.
	3. Orient the learner toward entrepreneurship as a career option and creative
	thinking and behaviour.
	4. Expose students to basic entrepreneurial concepts and inculcate theoretical
	knowledge of entrepreneurship.
	5. Develop entrepreneurial qualities and skills among the students and motivate
	them to become entrepreneur.
M. Com. II	1) Understands advanced knowledge in the field of Advance Accountancy.
Advance	2) Enables the students to acquire the basic skills required for carrying out
Accountancy	business activities, Research, stock market operations, accounting practices,
	etc.
	3) Develop adequate knowledge and skill to provide consultancy services in
	finance and marketing.
	4) Confidently prepare for NET, SET, and other competitive examinations of
	their choice.

Programme Specific Outcomes of the Arts Faculty:

Name of the	Programme Specific Outcomes
Programme	
B. A.III	After Successful completion of the three year degree program in Marathi a
Marathi	student should be able to:
	 १. नाटकाची अभिरुची विकसित करून घेतो तसेच नाटकाच्या चिकित्सक अभ्यासाची क्षमता विकसित होते. २. मराठी एकांकिकांच्याद्वारे विद्यार्थांमध्ये लेखन कौशल्यविषयक दृष्टीकोन निर्माण
	करता येतो.
	३. संवादाची क्षमता विकसित करता येते आणि भाषिक कौशल्य विकसित होतात. ४. दलित एकांकिकांमधून सामाजिक निर्माण करून समाजकार्यासाठी दिशा दाखविता येते.
	५. एकांकिकांची आस्वाद क्षमता विकसित होते.
	६. लेलित गद्यातून थोर पुरुष व स्रीयांच्या जीवनचरित्रातून नीती-आचरण चिंतनशीलता व भावात्मकता सूत्रांचा परिचय करून देता येतो तसेच स्री व पुरुष यांच्या जीवनाच्या विविध पैलूंचे दर्शन घडविता येते.
	७. मध्ययुगीन मराठी वाड्मयाच्या निर्मितीमागील प्रेरणा, इतिहास, स्वरूप व वैशिष्टये तसेच विविध साहित्यकृतींचा स्थूल परिचय करून घेता येतो.
	८. वारकरी संप्रदायातील संतकवींच्या काव्यनिर्मितीचे स्वरूप, बखर वाड्मयाचे स्वरूप व वैशिष्टयांचा परिचय करून देऊन बखर व अभंग यांची आस्वाद क्षमताविकसित
	व वाराष्ट्रयाचा पारचय - करून देऊन बेखर व अमग याचा आस्वाद दामताविकासत करता येते
	९. नाट्य अभिरुची विकसित करता येते तसेच नाट्य संकल्पना नाट्य आस्वादाची डोळस क्षमता विकसित करता येते.
	१०. भाषेचे स्वरूप, कार्य, भाषा उत्पतीचे सिद्धांत, भाषाकुल संकल्पना, प्रांतिक भेद, मराठीच्या प्रमुख बोलीचा परिचय, भाषाविषयक असलेले गैरसमज, मराठीवरील अन्य भाषांचा पडलेला प्रभाव तसेच मराठी भाषा
	उत्पतीविषयीची मते जाणून घेऊन मराठीची पूर्वपीठीका लक्षात घेता येते.
	११. मराठी व्याकरणाची आस्वाद क्षमता विकसित करून आकलन क्षमता विकसित
	होते.
	१२. लोकरंगभूमीची संकल्पना, स्वरूप, वैशिष्ट्ये, लोकसाहित्य व लोकरंगभूमी यांचा
	परस्परसंबंध तसेच वहीं, भारुड, दशावतार, तमाशा, लोकनाट्य, पथनाट्य, सत्यशोधक
	जलसे, रिंगणनाट्य व कीर्तन यांच्या स्वरूप, वैशिष्ट्रयांचा परिचय करून देऊन
	लोकसाहित्यविषयक अभिरुची विकसित करता येते.
	१३. हकश्राव्य माध्यमांचा परिचय करून घेऊन त्यासाठी लेखन व संवाद कौशल्य यांचा
	परिचय करून देऊन दकश्राव्य माध्यमांचे कार्य, उपयुक्तता, कार्यक्रमांसाठी लेखन तंत्र व दूरचित्रवाणीसाठी निवेदन कौशल्य विकसित करता येते.
	१४. आधुनिक समाज माध्यमांचा परिचय करून घेता येतो त्याचबरोबर त्यांचे कार्य, ।
	उपयुक्तता आणि ईमेल, ब्लॉग फेसबुक, द्विटर, व्हाटसअप, युट्युब यासाठी लेखन तंत्र
	व निवेदन कौशल्य विकसित करता येते.
	१५. निबंध लेखनाचे स्वरूप, घटक, प्रकार यांचा परिचय करून घेता येतो त्याचबरोबर
	निबंध लेखनाचा सराव करून घेऊन निबंध लेखनाचे कौशल्य विकसित करता येते.
	१६. कथेची अभिरुची विकसित करून घेतो तसेच कथेच्या चिकित्सक अभ्यासाची
	14. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.

क्षमता विकसित होते.

- १७. यशस्वी उद्योजकांच्या चरित्राद्वारे विद्यार्थांमध्ये व्यावसायिक दृष्टीकोन निर्माण करता येतो
- १८. संवादाची क्षमता विकसित करता येते आणि भाषिक कौशल्य विकसित कर होते.
- १९. उत्तम दर्जाची व्यावसायिकवृत्ती निर्माण करून यशस्वी उद्योगाची दिशा दाखविता येते.
- २०. कादंबरीची आस्वाद क्षमता विकसित होते.
- २१. पौवार्त्य व पश्चिमात्य साहित्यशास्त्रातील विविध संकल्पना, साहित्याचे स्वरूप, साहित्याचे प्रयोजन आणि साहित्याची निर्मिती प्रक्रिया यांचा स्थूल परिचय करून घेता येतो.
- २२. नाट्य अभिरुची विकसित करता येते तसेच नाट्य संकल्पना नाट्य आस्वादाची डोळस क्षमता विकसित करता येते.
- २३. मराठी व्याकरणाची आस्वाद क्षमता विकसित करून आकलन क्षमता विकसित होते.

B. A.III Hindi

- भारत देश की राष्ट्रभाषा हिंदी होने के कारण हिंदी भाषा के विकास की जानकारी प्राप्त करना छात्रों के लिए आवश्यक है।
- २. हिंदी साहित्य का इतिहास जान लेने का मतलब है भाषा के भूतकाल के बारे में जान लेना और उससे परिचित होना।
- 3. जो छात्र हिंदी भाषा का अध्ययन कर रहा है उस भाषा के इतिहास से जुडना महत्वपूर्ण है |
- ४. आधुनिक हिंदी साहित्य के घटनाओं का अध्ययन छात्रों कों वर्तमान घटनाओं कों के बरें में सजग बनाता है।
- ५. काव्य,नाटक और समीक्षा छात्रों को भारतीय और पाश्चात्य साहित्य का अध्ययन करने के लिये सक्षम बनते है।
- ६. छात्र हिंदी सिनेजगत से परिचित होंगे।
- ७. भाषा का सूक्ष्मता से अध्ययन करके संवाद कला विकसित होकर उसमें हास्यविनोद भाव छात्रों में विकसित होते है।

B. A.III English

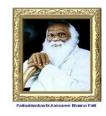
A Student ,who has taken admission into the program of B.A. with English as specific subject of study is expected to achieve following outcomes:

- **1.** Basic knowledge of English as global Language in-depth Knowledge of the Core Areas of the Subject like Literature, History, Theory, Criticism, Grammar and Linguistics etc.
- 2. Train students for careers and advanced studies in a wide range of English, Public Relations, or Communications fields.
- 3. Equip student with analytical skills in linguistics, communications and literary criticism.
- 4. Nurture the notion of Value education through literature.

B. A.III	1. The Arts Graduate can peruse further studies in M.A. in History, B. Ed,	
History	Archaeology, Museology, Epigraphy, and MBA in Heritage.	
	2. The Student can acquire the skill in answering and qualifying the	
	competitive exam and the other necessary examination.	
	3. They can take up job as Assistant Professor at Colleges, Higher Secondary's	
	and Schools.	
	4. Students can pursue M. Phil and Ph. D. in Applied areas.	







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Course Outcomes of the Commerce Faculty:

Name of the Course	Course Outcomes
B. Com. I – English	At the end of the course students will
Comp.	Understand the concepts of communication.
	• Expand their vocabulary after reading the prescribed texts.
	• Attain writing, speaking, reading, & listening competence.

	Be aware of the correct usage of English grammar
	Deceme familiar with calcuted literary forms, develop and strongthen their
	Become familiar with selected literary forms, develop and strengthen their
	imaginative ability and the ability to analyze different literary forms.
B. Com. I - Financial	1. Develop and understand the nature and purpose of financial statements in
Accounting	relationship to decision making.
	2. Develop the ability to use the fundamental accounting equation to
	analyze the effect of business transactions on an organization's accounting
	records and financial statements.
	3. Develop the ability to use a basic accounting system to create (record, classify, and summarize) the data needed to solve a variety of business
	problems.
	4. Develop the ability to use accounting concepts, principles, and
	frameworks to analyze and effectively communicate information to a
	variety of audiences.
	5. Develop the ability to use accounting information to solve a variety of
	business problems.
	6. Develop the ability to interact well with team members.
B. Com. I - Insurance	1. Students will be aware about Technical matters of claim settlement
	2. Students will be capable to understand the insurance practices and its
	policy
	3. Recognise and act within the rules of professional conduct
	4. Identify the client's reasonable expectations as to quality and timeliness of service.
	5. Reflect on their learning and identify learning needs.
	or resident on their reasoning and racinary reasoning needs.
B. Com. I - Principles	1. Students will be aware about Marketing practices available in India
of Marketing	2. Students will be aware about Conceptual and fundamental knowledge of
	markets and its functioning.
	3. Subject will provide package of skills relevant to practice
	4. It will provide marketing research methodology.
B. Com. I - Principles	1.Demonstrate professional communication and Behaviour
of Management	2. Observe and evaluate the influence of historical forces on the curent
	practice of management. 3. Identify and evaluate social responsibility and ethical issues involved in
	business situations and logically articulate own position on such issues.
	4. Explain how organizations adapt to an uncertain environment and
	identify techniques managers use to influence and control the internal
	environment.
	5. Practice the process of management's four functions: planning,
	organizing, leading, and controlling.
	6. Identify and properly use vocabularies within the field of management to
	articulate one's own position on a specific management issue and

	communicate effectively with varied audiences.
	7. Evaluate leadership styles to anticipate the consequences of each
	leadership style.
	8. Gather and analyze both qualitative and quantitative information to
	isolate issues and formulate best control methods.
B. Com. I - Business	1. Understand comparative advantage.
Economics	2. Use supply and demand curves to analyze the impact of taxes etc. on
	consumer surplus and market efficiency.
	3. Understand how to evaluate macroeconomic conditions such as
	unemployment, inflation, and growth.
B. Com. II – English	At the end of the course the students will be –
Comp.	A social longuage skills resociated for day to day and specific records
	Acquire language skills required for day to day and specific purpose.
	• Be able to interpret and illustrate concepts of Communication, Prose and
	Poetry.
	De able to an alone and interment the test masses bad
	Be able to analyze and interpret the text prescribed.
	Develop certain life skills.
B. Com. II -	1.Know the corporate accounting policy
Corporate Accounting	2. Aware students about methods of issue of shares/ debenture
corporate recounting	3. Know the financial analysis for comparison
B. Com. II - Money	Know the fiscal policy of the India
and Financial	2. Know the banking structure in India
System	3. Know the monetary policy of the India
B. Com. II -	1 Aware student about entrepreneurship culture.
Fundamental of	2. Know the theory of entrepreneurship
Entrepreneurship	3. Know the practical know how about project of self-employment
B. Com. II - Business	1. Make them able to decision maker by using statistical tools like
Statistics Statistics	probability, time series, central tendency
Statistics	2. Aware modern techniques of decision making
B. Com. II - Business	1. Is able to describe and apply an economic science perspective to complex
Economics	economic problems.
Leonomies	2. Is able to analyse price setting behaviour in different market structures
	and to assess the impact of different types of government intervention in
	these markets.
	3. Is able to analyse and substantiate, both graphically and verbally,
	producer behaviour in different market structures.
	4. Is able to perform a reasoned welfare economic analysis of the strengths
	(benefits) and limitations (costs) of different market structures.
B. Com. III -	1. Explain and demonstrate accounting practice for equity investments
Advanced	(including accounting for group structures), measurement and disclosure
Accountancy - I	of information, and financial decision making,
11ccountaincy - 1	or information, and infancial decision making,

2. Financial Reporting Standards.	
3. Identify and explain the conceptual underpinnings for current a	dvanced
financial accounting and reporting issues.	
4. Identify and explain current issues related to financial accoun	ting and
financial reporting.	υ
5. Critically analyze and interpret published financial information.	
B. Com. III – 1. Students will able to know the co-operative movement in Ir	dia and
Co-operative Maharashtra.	
Development 2. Students will be able to know the practices of cooperative institut	ons.
3. How cooperative organisations are beneficial to weaker section	
B. Com. III - Student Will aware about	
Advanced 1. Introduction to Tax	
Accountancy –II 2. Tax Compliance, the IRS, and Tax Authorities	
Auditing and Taxation 3. Tax Planning Strategies and Related Limitations	
4. Individual Income Tax Overview	
5. Gross Income and Exclusions	
6. Individual Deductions 7. Individual Income Tax Computation	and Tax
Credits	
8. Business Income, Deductions, and Accounting Methods	
9. Property Acquisition and Cost Recovery	
10. Property Dispositions	
11. Investments	
12. Compensation	
13. Retirement Savings and Deferred	
Auditing	
1. Is able to discuss and describe auditor's responsibility to detect	material
misstatements in the financial statements and is able to identify ri	sk areas
that pose a major threat to the financial statements.	
2. Is able to discuss and describe GAAS and PCAOB Standa	rds and
appropriately apply the standards to audit situations.	
3. Is able to discuss and describe the various audit reports (opinion)	ons) and
also identify required audit report from various audit situations.	
B. Com. III - Modern 1. It will be helpful to know the recent trends in management	
Management 2. It will be helpful to know the SWOT Analysis regards to	ousiness
Practice environment	
3. It will be helpful to know the corporate strategy and its benefit	
4. It will provide knowledge about ISO and Quality Management.	
B. Com. III - Business 1. Subject will be provide the knowledge about economic pol	icy and
Economics practices	
2. It will be helpful to know the LPG and NEP 1991 and its impact	
3. It will be helpful to known the trade cycle in business	
B. Com. III - Business 1. Students will capable to know the technical grounds of mercan	tile law
Regulatory and its uses.	

Framework	2. Students will capable to know the practices of law.
M. Com I	Course Outcome - On completion of the course:
ADVANCED ACCOUNTS - I	CO1: Students will be familiar with the conceptual knowledge of advanced accountancy
	CO2: Students will be understanding banking system.
	• CO3: Students will be acquired the knowledge of preparation of final accounts of banking and insurance companies.
	• CO4: Students will be able to know human resource accounting.
M. Com. – I	Course Outcome - On completion of the course:
MANAGEMENT ACCOUNTING - II	• CO1: Students will be familiar with the conceptual knowledge of management accounting.
	CO2: Students will be understanding concept of cost accounting.
	•CO3: Students will be acquired the knowledge of preparation budget.
	CO4: Students will be able to know the cost – profit analysis.
M. Com I	Course Outcome - On completion of the course:
ADVANCED AUDITING -	• CO1: Students will be familiar with the conceptual knowledge of auditing.
	 CO2: Students will be understanding the concept of Ind. AS. CO3: Students will be acquired the knowledge of preparation of audit report. CO4: Students will be able to do special audit.
M.C. I	-
M. Com. – I BASICS OF GST - IV	Course Outcome - On completion of the course:
DADICO OL ODI - IV	• CO1: Students will be familiar with the concept of GST.
	• CO2: Students will be understanding GST working system.
	• CO3: Students will be acquired the knowledge of preparation GST valuation etc.
M. Com. – I	Course Outcome - On completion of the course:
ENTREPRENEURSHIP	• CO1: Students will be able to guide promotors and key role holders of
AND STARTUP	• CO1: Students will be able to guide promoters and key role holders of start-ups for setting up, stabilizing and scaling up of new enterprises with
(ELECTIVE PAPER)	due regard to the dynamics of entrepreneurial ecosystem.
	• CO2: They will attain abilities to assist the management in implementing innovative ideas for adding values to the products and organization, stabilize operations and scale up with appropriate execution of business plans.

leading start-up entities, meeting challenges and mitigating risks by risk enabled operating strategies, building competitive advantages and adopting measures for result-oriented performance management. • CO4: They will acquire skill set to perform valuation to facilitate fund raising and devising appropriate exit strategies for early-stage investors. M. Com. — I On the Job Training • CO1: Expose the students to the real-life situation • CO2: Develop an ability of critical thinking. • CO3: Analyse the problem in an organization and suggest remedial actions • CO4: Gain working knowledge of the job/profession to get insights of the business. Course Outcome — On completion of the course: • CO1: Distinguish the roles between fraud examiners and forensic accountants; • CO2: Explain the role and ethical and professional obligations of forensic accountants in the context of investigations and disputes; • CO3: Outline the context of financial crimes and analyses the various types of financial crimes, • CO4: The perpetration and dissipation methods, and lessons learned through real-life case studies; • CO5: Apply the Fraud Risk Management Programme in a real-life context and evaluate red flags signalling the existence of financial crimes; • CO6: Develop a forensic investigation engagement plan; • CO7: Apply the appropriate investigative methodology in the execution of a forensic investigation engagement; • CO8: Demonstrate the effective use of digital forensics and data analytics in investigations. • CO9: Prepare a concise forensic investigation report M. Com. — II FINANCIAL MANAGEMENT - VI Course Outcome — On completion of the course: • CO1: Students will be familiar with the conceptual knowledge of financial management. • CO2: Students will be acquired the knowledge of preparation of capital budgeting. • CO4: Students will be acquired the knowledge of preparation of capital budgeting.		• CO3: Students will be equipped with skill sets to assist entrepreneurs in
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M.C. H. C. O. L. C. L. C.		
Course Outcome - On completion of the course:	M. Com. – II	Course Outcome - On completion of the course:

MANAGERIAL DECISIONS ACCOUNTING - VII	 CO1: Students will be familiar with the managerial decision accounting. CO2: Students will be understanding costing methods. CO3: Students will be acquired the knowledge of preparation of cost sheet. CO4: Students will be able to know contemporary issues in the managerial decision accounting.
M. Com. – II INDIAN ACCOUNTING STANDARDS AND PRACTICE (ELECTIVE PAPER)	 CO1: Students will be familiar and acquaint the student the recent developments in International Accounting Standards and various financial reporting practices at the global level. CO2: Students will be familiar with the IFRS's and their applications in the field business, commerce & industry.







Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur.

Course Outcomes of the Arts Faculty:

Name of the Course	Course Outcomes
B. A. I – English	At the end of the course students will
Comp.	Understand the concepts of communication.
	Expand their vocabulary after reading the prescribed texts.
	Attain writing, speaking, reading, & listening competence.

	Be aware of the correct usage of English grammar
	Become familiar with selected literary forms, develop and strengthen their
	imaginative ability and the ability to analyze different literary forms.
B. A. I – English	At the end of the course –
Opt. Introduction to	•Student will know the nature of human language and animal communication
Language	system.
	Students will know the characteristics of speech and writing.
	• Students will be able to identify speech sounds in English.
	• Students will be able to know speech mechanism.
	• Students will be able to identify word formation process of a word.
	They will be able to coin new words
B. A. I – Marathi	१) मराठी वाङ्मयातील कथा या मुलभूत वाड्मय प्रकारची ओळख होण्यास मदत होते.
Comp.	२) कथा, तिचे स्वरूप, घटक आणि प्रमुख प्रकारांचा परिचय विद्यार्थ्यांना होतो.
साहित्य दर्पण	३) मराठी कथेच्या आजवरच्या वाटचालीचा परिचय विद्यार्थ्यांना होतो.
	४) कथेच्या अभ्यासाची दृष्टी विद्यार्थ्यांमध्ये रुजविण्यास सदर अभ्यासक्रमाची मदत होते.
B. A. I – Marathi	१) विद्यार्थ्यांना वैचारिक गद्य लेखनाच्या परंपरेची ओळख करून घेता आली.
Opt.	२) विद्यार्थ्यांना ग्रामीण समाज जीवनातील व्यथा- वेदना, रिती, परंपरा, राजकारण,
साहित्य रंग	समाजकारण याबाबत माहिती जाणून घेता आली.
	३) भटक्या जाती जमातीतील स्त्रियांच्या वेदना समजून घेता आल्या.
	४) भारतीय समाज जीवनातील पुरुषी मानसिकतेचे दर्शन समजून घेता येते.
	५) मराठीतील चरित्र व आत्मचरित्र लेखन परंपरेचा परिचय विद्यार्थ्यांना करून घेता येतो.
B. A. I – Hindi	१.साहित्य का स्वरूप तथा उसकी सार्थकता समझ आयी
Comp. साहित्य सुरभी	२.गद्य की विविध विधाओं का परिचय हुआ
	३.कविता का रसग्रहण किया
	४.पारिभाषिक शब्दावली, संक्षेपण, पल्लवन, वृतांत लेखन की कला अवगत हुई ।
B. A. I – Hindi Opt.	१.साहित्य का स्वरूप तथा उसकी सार्थकता समझ आयी
साहित्य रत्न	२.गद्य की विविध विधाओं का परिचय हुआ
	३.कविता का रसग्रहण किया।
	४.िलंग, वाचन, कारक, हिंदी वर्णमाला,शब्द भेद, हिंदी अंक लेखन, साक्षात्कार लेखन,

	अनुवाद, वार्ता लेखन की कला अवगत हुई ।
	3,
B. A. I – History	1. Students will be able to examine institutional basis of Maharashtra.
Opt.	2. Students will be able the real history of Chhatrapati Shivaji Maharaj and his
Rise of the Maratha	times.
Power (1630 - 1707	3. It will help the students to understand the most important and inspiring history
A.D.)	
	of medieval Maharashtra.
	4. Students will be able to examine social, economic and religious condit
	Medieval Maharashtra
	5. Students will be able to analyze the civil administration, military
	administration and judicial
	system during the 1630 to 1707 A. D.
B. A. I – Politics	1. To acquaint students with the important features of the Constitution of India
Opt. Constitutional	and with the basic framework of Indian government.
Government &	2. To familiarize students with the working of the Constitution of India.
Democracy in India B. A. I – Education	♣ Philosophical Foundation of Education
Opt Paper I and	4 : After the completion of B.A. I Education course students will be
II	able to:
Philosophical and	1) Describe the concept of education and philosophy.
Sociological	2) Illustrate the relation of philosophy with education.
Foundation of	3) Explain the aims, objectives and functions of education.
Education	4) Think critically and discuss different reasons of indiscipline and suggest the
	remedies on it.
	5) Interpret the educational works of different educationists. Sociological Foundation of Education
	♣ After the completion of B.A. I Education course students will be
	able to:
	1) Describe the concept of education and sociology.
	2) Illustrate the relation of sociology with education.
	3) Classify and illustrate the role and importance of social groups in education.
	4) Identify and communicate the current social problems relating to education in
	India and suggest the remedies on it. 5) Identify and illustrate the role & importance of national integration in
	education.
B. A. I – Economics	On completion of the course, students will be able to:
Opt. Indian Economy	 Understand Characteristics and Problems of Indian Economy. Understand various issues related to Indian Economy.
Economy	3. Understand Cooperative Movement in Maharashtra.
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D A I Cociology	After the completion of course in Social and students will be able to:
B. A. I – Sociology	After the completion of course in Sociology, students will be able to:
Opt. Principles of	1. Communicate orally and in writing about sociological concepts.
Sociology	2. Identify the causes and consequences of social divisions and inequalities.
	3. Explain central concepts of social theory and apply them to social life.
B. A. I –	After completion of B. A. course in Geography, students will be able to:
Geography Opt.	1. Understand the background knowledge of Geography and Geology.
	2. Identify and communicate some geomorphologic concepts and processes
	takes place on the earth surface and within the earth crust.
	3. Understand the background knowledge of Geography and Climatology.
	4. Think critically about atmospheric phenomena.
	5. Communicate geographical concepts and data effectively using oral, written
	and visual forms.
	6. Investigate complex real world challenges using appropriate concepts,
	methods, and tools from one or more geographical sub-disciplines.
B. A. II – English	At the end of the course the students will be –
Comp.	
	• Acquire language skills required for day to day and specific purpose.
	• Be able to interpret and illustrate concepts of Communication, Prose and
	Poetry.
	roetry.
	Be able to analyze and interpret the text prescribed.
	• Develop certain life skills.
B. A. II – English	At the end of the course the students will be –
Opt.	
Paper III and V	• Familiar with a few British writers
British Literature	• Familiar with some of the dramas and dramatists
	• Able to understand the features of the text.
B. A. II – English	By the end of the course, students will understand the gradual development of
Opt.	Indian English
Paper IV and VI	
Indian Writing in	Literature and they will
English	• get acquainted with major genres/themes through the study of texts prescribed.
	eget acquainted with major genres/themes through the study of texts prescribed.
	• be familiar with Indian socio-cultural ethos as revealed through texts
	• be familiar with Indian socio-cultural ethos as revealed through texts
	• be familiar with Indian socio-cultural ethos as revealed through texts prescribed and try to correlate it with everyday situations.
	 be familiar with Indian socio-cultural ethos as revealed through texts prescribed and try to correlate it with everyday situations. be able to understand and interpret literature on their own and further cultivate interest in the study of literature in English.
D A H M4h?	 be familiar with Indian socio-cultural ethos as revealed through texts prescribed and try to correlate it with everyday situations. be able to understand and interpret literature on their own and further cultivate interest in the study of literature in English. be able to appreciate poems with critical perspectives.
B. A. II – Marathi Comp. Paper III	 be familiar with Indian socio-cultural ethos as revealed through texts prescribed and try to correlate it with everyday situations. be able to understand and interpret literature on their own and further cultivate interest in the study of literature in English.

and V	३) व्यक्ती चित्रांचा परिचय होतो.
कादंबरी आणि	४) ग्रामीण समजा जिवांतील कृषी जीवन, निसर्ग, रिती रिवाज आणि परंपरा यांची ओळख
आत्मकथन	होते.
	५) आत्मकथा या वाड्मय प्रकारची ओळख होते व समृद्ध अश्या आत्मकथन परंपरेचा परिचय होतो.
	·
B. A. II – Marathi	६) कादंबरी आणि आत्मकथन या प्रकारची वाड्मयीन मुल्ये समजून घेता येतात.
Opt. Paper IV and	१) कविता, नाटक, कथा या वाड्मय प्रकारची स्वरूप व वैशिष्टये जाणून घेता येतात.
VI	२) लेखकाची लेखानामागील भूमिका समजून घेता येते.
एका वाड्मय	३) समाज जीवनात आणि राजकारणात असणाऱ्या प्रसिद्ध व्यक्तींची ओळख होते.
•	४) लेखकाचा, कवीचा जीवन प्रवास लक्ष्यात येतो.
प्रकारचा	५) विविध उपमा, अलंकार आणि रस विचाराची ओळख होते.
अभ्यास	६) कादंबरीचे वाड्मयीन मूल्यमापन करून घेण्याची दृष्टी विकसित होते. ६) कविता या वाड्मय प्रकारचे स्वरूप, वैशिष्ट्रये, वाटचाल, प्रकार व घटक यांचा परिचय
	विद्यार्थ्यांना करून घेता येतो.
B. A. II – Hindi	१.हिंदी कहानी विधा से परिचित किया
Opt.	र १ हिदा परहाना विवास पारावरा विरुपा
Paper III and V	२.हिंदी कहानी के तत्व और स्वरूप को समझाया
आधुनिक हिंदी गद्य :	३.छात्रों में राष्ट्रिय, सामजिक एवं मानवी दृष्टिकोण विकसित हुआ
कहाणी एवं	३.छात्रा म साष्ट्रप, सामाजक एवं मानवा राष्ट्रकाण विकासत हुआ
व्यावहारिक हिंदी	४.छात्रों में जीवन के प्रति सकारात्मकता निर्माण हुई
	५.छात्रों को अपने उत्तरदायित्व के प्रति जागरूक किया ।
	६.कहानी कला के प्रति अभिरुचि और समीक्षा दृष्टी विकसित हुई ।
B. A. II – Hindi	१. भक्तिकाल तथा रीतिकल की सामाजिक परिस्थिति एवं धार्मिक परिवेश से अवगत
Opt.	हुए ।
Paper IV and VI मध्ययुगीन हिंदी	२. भाक्तिकालीन काव्य में निर्गुण और सगुण भक्तिधारा का अध्ययन किया।
काव्य : व्याकरण एवं लेखन	३. रीतिकाल के माध्यम से शृंगार एवं वीर रस का महत्व को समझ गए।
	४. रीतिकालीन काव्य के माध्यम से प्रेम भावना को अंकुरित किया।
	५.छायावाद तथा प्रगतीवाद के माध्यम से प्रकृति,मानवीय पीडा,संवेदना को सम्मुख रखा
	६.संवैधानिक मूल्यों से छात्रों को परिचित किया
B. A. II – History	1. Students will be able to understand the contemporary Europe in the light of its
Opt.	really ====real ====================================
•	•

Paper III and V	background history.
Modern Europe	2. Students will be able to understand rise and growth nationalism in Europe.
(1750 – 1871 A.D.)	3. Students will be able to understand various revolutions and basis of
	development of European
	Countries
B. A. II – History Opt.	1. Students will be able to understand the major events of India's freedom struggle.
Paper IV and VI Modern India (1857 - 1950 A.D.)	2. Students will be able to understand rise and growth of nationalism in India.3. It will increase the spirit of healthy Nationalism, Democratic values and
	secularism among the Students.
B. A. II – Politics Opt. Paper III and V INTRODUCTION TO POLITICAL THEORY	 This is an introductory paper to the concepts, ideas and theories in political theory. It seeks to explain the evolution and usage of these concepts, ideas and theories with reference to individual thinkers both historically and analytically. The different ideological standpoints with regard to various concepts and theories are to be critically explained with the purpose of highlighting the differences in their perspectives and in order to understand their continuity and change. Furthermore there is a need to emphasize the continuing relevance of these concepts today and explain how an idea and theory of yesteryears gains prominence in contemporary political theory.
B. A. II – Politics Opt. Paper IV and VI MODERN INDIAN POLITICAL THOUGHT	 This paper studies the classical tradition in political theory from Raja Rammohan Roy to R.M. Lohia with the view to understand how the great Masters explained and analyzed political events and problems of their time and prescribed solutions. The texts are to be interpreted both in the historical and philosophical perspectives to understand the universality of the enterprise of political theorizing. The limitations of the classical tradition, namely its neglect of women's concerns and issues. The legacy of the thinkers is explained with the view to establish the continuity and Change within the modern political thoughts.
B. A. II – Education Opt	Letter 1 Educational Psychology
Paper III and V	♣ After the completion of B.A. II Education course students will be

Educational Psychology

able to:

- 1) Describe the concept of educational psychology.
- 2) Compare the study methods of human behaviour.
- 3) Explain the concept of Intelligence and measure the Intelligence of an individual.
- 4) Discuss and compare the process of teaching and learning.
- 5) Identify different aspects of personality and try to develop his/her personality.
 - **4** Teaching and Learning
- **♣** After the completion of B.A. II Education course students will be able to:
- 1) Discuss and compare the process of teaching and learning.
- 2) Classify and illustrate the methods of teaching.
- 3) Think critically and explain the characteristics of a good teacher.
- 4) Identify different aspects of children with special needs student and suggest remedies on it.

B. A. II – Education Opt. -Paper IV and VI Development of Education in India

Learning Education in Ancient and Medieval India

- **♣** After the completion of B.A. II Education course students will be able to:
- 1) Explain the aims and objectives of education, curriculum and methods of teaching in ancient and medieval era.
- 2) Discuss the discipline of students and role of teacher in ancient and medieval era.
- 3) Compare aims of education, curriculums and methods of teaching introduced in ancient and medieval era.
- 4) Compare the role of students and teacher introduced in ancient and medieval era.
 - **Lead of the Education in British Period and Post Independence Period**
- **♣** After the completion of B.A. II Education course students will be able to:
- 1) Explain the aims and objectives of education, curriculum and methods of teaching in British and Post-Independence era.
- 2) Discuss the discipline of students and role of teacher in British and Post-Independence era.

	3) Express the recommendations made by different Commissions like Mudliyar
	Commission, Kothari Commission and the National Policy on Education
	1986 and 1992.
	4) Summarize the changes brought by the National Policy on Education 1986
	and 1992.
B. A. II –	On completion of the course, students will be able to:
Economics Opt.	1 .Understand various issues related to population in India.
Paper III and V	2. Understand various concepts and theories of population.
Democracy	3. Understand population policy of India.
B. A. II –	1) On completion of the course students will be able to understand various
Economics Opt.	concepts and their of Macro-Economics
Paper IV and VI	2) Understand fiscal policy of India.
B. A. II – Sociology	On completion of the course, students will be able to:
Opt. Paper III and	1. Development of civic competencies a sense of informed active citizenship
V Indian Society	2. Direction in values formation and moral development: social justice, respect
Structure and	for human life and dignity, and social responsibility
Change	3. Ability to create new knowledge about social reality and become future
	leaders of communities and the nation, that is, agents of change.
B. A. II – Sociology	On completion of the course, students will be able to:
Opt. Paper IV and	1. Knowledge of theories, concepts, substantive problems, and methodologies
VI – Indian Social	related to sociological practice
Problems	2. Understanding of the sociological perspective on human conditions
	3. Ability to think critically and creatively and to solve problems using the
	scientific approach.
B. A. II –	1. Understand various social reform movements and contribution of social
IDS: History of	reformers in Maharashtra.
Social Reforms in	2. Identify the different types of social problems in our society.
Maharashtra (1818	3. Students will be able to examine social background of Maharashtra.
- 1970 A.D.)	4. It will increase the spirit of humanity, secularism, gender equality among the
	students.
B. A. II –	The Environmental Studies major learning outcomes:
Environmental	1) The Environmental studies major prepares students for careers as leader in
Studies	understanding and addressing complex Environmental issue from a problem
	oriented, interdisciplinary, perspective student.
	2) Apply system concept and methodologies to analyze and understand
	interaction between social and Environmental processes.
	3) Demonstrate proficiency in Quantitative method Qualitative analysis, critical
	thinking and written and oral communication needed to conduct higher level
	work as interdisciplinary scholars.

B. A. III – English	By the end of the course
Comp.	• The students will be able to Use oral and written English effectively.
	The stadents will be uble to obe of a and written English effectively.
	Appreciate literary language.
	• Use English language in creative writing• Apply English language skills in
	clearing competitive examinations.
B. A. III – English	By the end of the course the students will be able to: Understand the basics of
Opt.	literary criticism
Paper VII and XII Introduction to	Trace the development of critical practices from traditional criticism.
Literary Criticism	
Literary Criticism	Read and understand the representative theories/essays.
	• Know the different critical terms/concepts/trends/movements/schools of
	Literary.
	• Criticism Look at a literary piece from different perspectives and relate them.
B. A. III – English	By the end of the course the students will:
Opt.	
Paper VIII and	Gain knowledge about stylistic strategies and diction of British literature.
XIII	Be able to explore the creativity and the human experiences in fiction, poetry
British Literature	and drama.
	Be able to cultivate aesthetic and ethical values in life through literary texts.
	Gain knowledge of major trends and traditions of British literature.
B. A. III – English	By the end of the course, students will –
Opt.	• Understand gradual development of Indian English Literature in the latter half
Paper IX and XIV Indian Writing in	of the 20th century.
English	Cat approximated with immentant themes & issues through study of toyto
8 "	• Get acquainted with important themes & issues through study of texts prescribed.
	Get acquainted with Indian ethos as revealed through prescribed texts.
	• Be able to interpret and analyze on their own & further nurture interest in the
D 4 777 D 111	study of Indian literatures, especially Indian English Literature.
B. A. III – English	By the end the course, the students will:
Opt. Paper X and XV	Understand Literature from the world around.
Literatures in	• Understand the salient features of postcolonial fiction and absurd theatre.
English	
	Be able to respond critically to world literatures in English.
	• Get acquainted with different cultures across the world through literature.

B. A. III – English	By the end of the course.
Opt. Paper XI and	
XVI	• The students will be able to: Identify the class of words.
Introduction to the Structure and	• Know the structure and function(s) of phrases and analyze them.
Function of	Identify clause elements.
Modern English	
	Construct sentences using basic clause patterns.
	•Use appropriate words and expressions to communicate the prescribed
	concepts.
B. A. III – Marathi	१) साहित्याचा समाज जीवनाशी असणारा संबंध लक्ष्यात येतो.
Opt.	२) प्रत्येक वाड्मय प्रकाराची वैशिष्टये समजून घेता येतात.
Paper VII and XII	३) संकृत साहित्य आणि मराठी साहित्य यांचा सहसंबंध लक्ष्यात येतो.
साहित्य समीक्षा	४) लेखकाची लेखनामागील भूमिका आणि वाचकाची वाचानामागील भूमिका समजून
	घेता येते.
B. A. III – Marathi	१) मराठी भाषा शास्त्राची परंपरा लक्ष्यात येते.
Opt.	२) लेखन हे शास्त्र की कला याचा परिचय होतो.
Paper VIII and	३) मराठी भाषेतील विविध बोली भाषेचा परिचय होतो.
XIII	४) भाषेतील विविध अलंकारांची व छंदाची ओळख होते.
मराठी भाषा	५) शब्द शक्तीचे महत्व व उपयोगिता लक्ष्यात येते.
विज्ञान	६) भाषेचे स्वरूप, कार्य, भाषा उत्पतीचे सिद्धांत व भाषाकुल संकल्पना अंगांनी
19राग	जाणवणारी वैशिष्ट्रये विद्यार्थ्यांना
	समजण्यास मदत होते.
	७) 'मराठीच्या कालिक भेदांचे स्वरूप, प्रांतिक भेद व त्यांची वैशिष्ट्ये विद्यार्थी समजून
	घेतात. ८) मराठीच्या निवडक बोलींचा परिचय विद्यार्थ्यांना होतो.
	९) मराठीवरील अन्य भाषांचा प्रभाव जाणून घेण्यास विद्यार्थी शिकतात.
B. A. III – Marathi	१) मध्ययुगीन मराठी वाद्यमयाच्या इतिहासाचा परिचय विद्यार्थ्यांना होतो.
Opt.	, ,
Paper IX and XIV	२) विद्यार्थ्यांना मध्ययुगीन मराठी वाङ्मयाच्या निर्मितीमागील प्रेरणा स्वरूप व वैशिष्टये । यांचा परिचय करून देता येतो.
मध्ययुगीन मराठी	
वाड्मयाचा विकास	३) शाहिरी काव्य आस्वादक क्षमता विद्यार्थ्यांमध्ये निर्माण करण्यास मदत होते.
	४) मध्ययुगीन काळातील वारकरी संप्रदायाच्या प्रमुख संत कवींच्या काव्यानिर्मितीचा
	परिचय करून घेता येतो.
	५) मराठी संत परंपरा व महाराष्ट्रातील विविध संप्रदाय यांची ओळख विद्यार्थ्यांना होते.
	६) बखर या वाड्मयनिर्मितीची ओळख करून देता येते तसेच विद्यार्थ्यांना तत्कालीन
	समाज व्यवस्था व राजकीय स्थितीचे वास्तव रूप समजून घेता येते.
B. A. III – Marathi	१) भाषेचे उपयोजन कसे करावे हे लक्ष्यात येते.
Opt.	२) भाषेच्या उपयोजनातून रोजगार निर्मितीकडे कसे जायचे हे लक्ष्यात येते.
Paper X and XV	

उपयोजित मराठी	३) मुलाखतीचे कौशल्य अभ्यासता येते.
	४) मुद्रित शोधनाचे महत्व व मुद्रित शोधन करताना कोणती काळजी घ्यावी या संबधीचे
	ज्ञान होते.
	५) स्पर्धा परीक्षेसाठी अभ्यास कासा करावा जे लक्ष्यात येते.
	६) म्हणी आणि उखाणे, वाक्यप्रचार यांचे सौंदर्य लक्ष्यात येते.
B. A. III – Marathi	१) ग्रामीण समाज जीवन आणि गावकुसाबाहेर राहणाऱ्या विविध जाती जमाती आणि
Opt.	त्यांचे जगणे समजून घेता येते.
Paper XI and XVI	२) कविता या वाड्मय प्रकारची स्वरूप व वैशिष्टये लक्ष्यात येतात.
मराठी	3) कथा, ललित कथेची स्वरूप व वैशिष्टये आणि बदल समजून घेता येतात.
साहित्यातील	४) स्वातंत्र्यप्राप्ती नंतर या देशातील बदलत्या राजकारणाचा व समाजकारणाचा परिचय
	होतो.
विविध वाड्मय	५) आजच्या चंगळवादी जगात भ्रष्टाचारी भोंदू, भ्रष्ट व्यक्तीचा इत्यादींचा चेहरा
प्रकार	सामाजासमोर येतो.
B. A. III – Hindi	१. भगवानदास मोरवाल के व्यक्तित्व से परिचित हुए
Opt.	
Paper VII and XII	२. भगवानदास मोरवाल के लेखन से परिचित हुए
विशेष लेखक :	
भगवानदास मोरवाल	३. प्रतिनिधी कहानियों के विषय विविधता से परिचित हुए
	४. शकुन्तिका उपन्यास कि विशेषताओं से परिचित हुए
B. A. III – Hindi	१.साहित्य निर्मिती कि प्रक्रिया का बोध करना
Opt.	
Paper VIII and	२. काव्य भेदों से अवगत किया।
XIII काव्य शास्त्र	३. साहित्य की नयी विधाओं का परिचय प्राप्त किया
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	४. साहित्यिक उपकरनों का परिचय प्राप्त किया
B. A. III – Hindi	१. हिंदी साहित्य की दार्शनिक पूर्व पीठीका से परिचित कराया
Opt.	 २. हिंदी साहित्य के इतिहास का परिचयात्मक अध्ययन किया
Paper IX and XIV आदिकालीन ओर	्र. १९५१ साहित्य पर श्रास्त्रास्य प्राप्तयासम्बद्धाः जञ्जयम् ।पर्रया
मध्यकालीन हिंदी	३. हिंदी साहित्य के इतिहास का कालानुरूप विकास का अध्ययन किया।
साहित्य का इतिहास	४. हिंदी साहित्य के इतिहास की कालजयी रचना तथा राचनाकारों का सामान्य परिचय
MIGNIE IN ENGIN	प्राप्त किया
	·
B. A. III – Hindi	१. प्रयोजानमूलक हिंदी की स्वरूपगत विशेषता एवं परिभाषा, अर्थ से परिचत हुआ
Opt.	 २. जनसंचार माध्यमों का परिचय हुआ
Paper X and XV प्रयोजन मूलक हिंदी	(. % ((. %) () () () () () () () () ()
אין אין קייאי ופעו	

	३. कार्यालयीन तथा वाणिज्यिक पत्राचार संबंधी क्षमता विकास किया
	४. अनुवाद के अर्थ, स्वरूप, परिभाषा, प्रकारों का परिचय प्राप्त किया।
B. A. III – Hindi	१. भाषा के विविध रुपों का परिचय हुआ
Opt. Paper XI and XVI	२. भाषा विज्ञान का सामान्य परिचय हुआ
हिंदी भाषा	३. हिंदी भाषा एवं लिपि के उदभव और विकास से परिचित हुए
	४. भाषा की शुद्धता के प्रति छात्रों को जागृत किया
	५. मानक हिंदी वर्तनी और व्याकरण से छात्रों को परिचित किया
B. A. III – History	1. Students will be able to examine institutional basis of Ancient India.
Opt.	2. Identify the rulers and their administration.
Paper VII and XII Ancient India (Pre-	3. Evaluate the legacy of Buddhism and Jainism.
Historic Period to	4. Analyse the features of art and architecture of Ancient India.
650 A.D.)	5. Students will be able to explain our heritage through cultural aspects of
	Ancient India.
B. A. III – History	1. Analyse the impact of Mughal rule on Indian polity and society.
Opt. Paper VIII	2. Assess the economy and religion of Mughal rule.
and XIII Mughal India	3. Students will be able to examine social, economic and religious condition in
(1526A.D	Medieval period
1707A.D.)	4. Analyse the features of art and architecture of Mughal period.
B. A. III – History	1. Students will be able to analyse the Marathas policy of expansionism
Opt.	2. Understand the role played by the Marathas in the eighteenth century polity.
Paper IX and XIV Expansion and	3. Identify the causes of the downfall of Maratha empire.
Downfall of the	4. Students will be able to analyse the civil administration, military
Maratha Power	administration and judicial system during the Peshwa period.
(1707-1818 A.D.)	Students will understand the relations between the nations in the world.
B. A. III – History Opt.	
Paper X and XV	2. Students will study the political, social and economic challenges in the Modern
Modern World	World.
(1870 - 2000 A.D.)	3. Analyse the streamline the role of League of Nations and UNO.
	4. Students understand the consequences of the World War I, World War II and
	Cold War regarding the present global crises.
B. A. III – History	1. Students will be able to explain what is History? And importance of History.
Opt.	

- 2. Identify the different types of primary and secondary sources.
- 3. Students will be able to examine sources of History.
- 4. Students will understand the Museum and Historical tourism.
- 5. Analyse the work of Great historians.







Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur.

* Programme Specific Outcomes of the Science Faculty:

Name of the	Programme Specific Outcomes
Programme	
B. Sc. III	PSO1: Demonstrate knowledge and understanding of essential facts, concepts,
Microbiology	principles and theories relating to Soil Science, Agriculture, Genetics and Plant
	Breeding, Plant Pathology, and other such areas of agriculture.
	PSO2: Develop confidence to take up challenging tasks of research in the field of
	Microbiology.
	PSO3: Concepts to take up higher studies, set up small scale industries.
	PSO4: Understanding the value and processes of life-long learning and
	professional development.
	PSO5: Apply ethical principles and commit to professional ethics and
	responsibilities and norms of the scientific practice
	PSO6: communicate and analyse the core concepts of theory in microbiology
	(Virology, Immunology, Industrial microbiology, Microbial genetics,
	Biochemistry, Clinical microbiology).
	PSO7: Apply basic concepts/ theories of life science for solving current scientific

and social issues in key fields such as agriculture, Environment, human health, transgenic animals, GMOs and plant disease management

PSO8: Plan and design systematic research activities in the field of microbiology including necessary skills for isolating, collecting, processing, browsing and interpreting data.

PSO9: Play effective roles in multidisciplinary teams.

PSO10: Developing appropriate communication skills for effective transfer of knowledge and technologies through extension programs.

B. Sc. III Mathematics

PSO1: A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.

PSO2: A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.

PSO3: Student is equipped with mathematical modeling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.

PSO4: Student should be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.

PSO5: Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

B. Sc. III Chemistry

PSO1: Student Should Updates their knowledge of Chemistry as per the prescribe curriculum

PSO2: Student can become entrepreneur based on their chemistry knowledge

PSO3: Students are capable to work on advanced instrument.

PSO4: Leaners achieved skill from experiment performance

provide them good opportunities for industrial placement.

PSO5: Students potential exposed to shape their future carrier







Rayat Shikshan Sanstha's,

Laxmibai Bhaurao Patil Mahila Mahavidyalaya, Solapur.

Course Outcomes of the Science Faculty:

Name of the Course	Course Outcomes
B. Sc. I – English	At the end of the course students will
Comp.	Understand the concepts of communication.
	• Expand their vocabulary after reading the prescribed texts.
	Attain writing, speaking, reading, & listening competence.
	Be aware of the correct usage of English grammar
	Become familiar with selected literary forms, develop and strengthen their
	imaginative ability and the ability to analyze different literary forms.
B. Sc. I – Chemistry	After successful completion of this course, students are expected to:
Physical Chemistry	1. Understand the significance of rates of chemical reactions.
-I	2. Able to understand second law thermodynamics and Carnot cycle and its
	efficiency.
	3. Able to the knowledge of mathematical concepts.
	4. Also, get a better understanding gaseous state.
B. Sc. I – Chemistry	After the end of the course, the students can understand:
Inorganic	1. The atomic structure and periodic properties and trends; types of chemical
Chemistry - II	
	bonding.
	2. Key knowledge of ionic bonding and different parameters of crystal
	structure.

	3. The basic knowledge of the VBT and MOT acquire with various examples.
B. Sc. I – Chemistry	After the end of the course, student can:
Organic Chemistry -	1. Understand the basics of bonding and able to draw correct structure of any
III	organic molecule and comment on its stability.
	2. Able to predict the reactivity of organic molecules by the help of electronic
	effects.
	3. Understand the different reactions along with formation of intermediates.
	4. Able to think and predict the possible mechanism of various critical organic
	reactions.
	5. Able to imagine 3D structure of organic molecules.
	6. Easily comment on aromaticity of any organic compound and its stability
	7. Able to distinguish between saturated, unsaturated, alicyclic, aromatic and
	heterocyclic compounds.
B. Sc. I – Chemistry	After the end of the course, student can:
Analytical Chamistry IV	1. Understand the basic elements present in the organic compounds
Chemistry - IV	2. Able to understand the qualitative analysis methods of C, H, N, S and
	halogen
	3. Easily understand the basic principle and classification of chromatography
	4. Able to know paper chromatography and its applications.
B. Sc. I	After completion of B.Sc. Microbiology programme, student will be able to:
Microbiology	
Todaya Jaradian da	1. The students can understand the historical background of microbiology.
Introduction to Microbiology &	2. They can learn about the contribution of different scientist like Louis
Microbial Diversity	Pasteur, Franscisco Redii.
- I	3. Discuss the Golden era microbiology, Germ theory of disease and germ
	theory of fermentation.
	4. Describe different branches of microbiology e.g. Water microbiology,
	Sewage Microbiology, Medical Microbiology and Milk microbiology.
	5. The students can grasp the knowledge about the Acellular microorganism
	like viruses, viroid, prions.
	6. Categorize different types of cellular microorganism like mycoplasma,
	bacteria, algae and fungi.
	7. Explain the differences between the prokaryotic and eukaryotic cells.

Γ	
	8. Understanding the concept of bacterial taxonomy and morphology of
	bacteria.
B. Sc. I	1. The students can understand indetail about the structure of cell wall, cell
Microbiology	membrane and cytoplasm
Cell cytology and	2. They understanding the ultra-structure of endospore.
microbial	3. They can analyse flagella, pili, sphaeroplast and protoplast.
techniques - II	4. The students can figure out the difference between capsule and slime layer.
	5. Categorize different types of Microscope and apply it in regular practical's.
	6. The students can apply different staining techniques in practical like
	positive staining, Negative staining, Monochrome staining and Gram
	Staining.
	7. Explain in detail about the different techniques of sterilization process and
	its application.
	9. The students can understand in detail about the chemical agent, physical
	agents and radiation used in sterilization techniques.
B. Sc. I	1. The students can understand in detail about the structure and function of
Microbiology	biomolecules.
Microbial	2. Gain basic knowledge about bioenergetics.
metabolism and	3. The students can know about the different enzymes which plays important
catabolism - III	role in metabolic pathways.
	4. Explain glycolysis cycle and enzyme involved in glycolysis.
	5. They can understand indetail about the nutritional requirement of
	microorganisms.
	6. Preparation of different culture media, and cultivation of microorganisms
	in Microbiology Laboratory.
	7. Explain serial dilution and different methods of pure culture preparation
	practically in regular practicals in laboratory.
B. Sc. I –	1. The students will learn about the sources of microorganisms in water.
Microbiology	2. They will get idea about the municipal water purification process.
Applied	3. Understand the sewage microbiology and treatment of sewage e.g.
Microbiology	Primary treatment, Secondary treatment.
- IV	4. Explain medical microbiology and related terms.
	5. The students will know about the types of infection and types of diseases
	71

in Medical Microbiology. 6. The students can understand in detail about the mode of transmission of diseases. 7. They can understand about the preventive and control measures for different type's diseases. B. Sc. I - Physics1. Realize the concept of Moment of Inertia and applying them in **Mechanics &** calculations of the moment of inertia of various systems. **Properties of Matter** 2. Empathize the physics and mathematics of oscillations and to solve the - I equations of motion for simple harmonic and damped oscillators 3. Sympathize the concepts of energy, work, power, the concepts of conservation of energy and be able to perform calculations using them. 4. See the concepts of elasticity and be able to perform calculations using 5. Read the concepts of surface tension and viscosity and be able to perform calculations using them. 6. Gather the concepts of viscosity & fluid dynamics and its application in real life problems. 7. Demonstrate quantitative problem solving skills in all the topics covered. B. Sc. I -- Physics 1. Comprehend technical applications of simple optical instruments. Optics & Lasers - II 2. Recognize and explain the different optical method of testing and measuring of various physical parameters Understand Fermat's principle, explain about different aberrations in lenses and discuss the method to minimize them. 3. Appreciate the types of eyepieces and construction and working of spectrometer and optical bench for determining various optical values. 4. Learn the phenomenon of interference of light and its formation in thin film, Newton's ring, wedge shaped film etc. due to division of amplitude. Explain Schuster method, Distinguish between diffraction and interference patterns, prism and grating spectra comprehended the basic principle of laser and its parts, the construction and working of He-Ne and Ruby laser. **5.** Solve problems using suitable assumptions and formulae as well as able to assess the results. B. Sc. I -- Physics 1. Understand Liquefaction of gases by various methods and Properties of

Heat &	Liquid He-II.
Thermodynamics – III	2. Apply the laws of thermodynamics to formulate the relations necessary to
	analyse a thermodynamic process.
	3. Analyse the heat engines and calculate thermal efficiency.
	4. Analyse the refrigerators and calculate coefficient of performance.
	5. Understand property 'entropy' and derive some thermo dynamical
	relations using entropy concept.
B. Sc. I – Physics	1. Decipher the concept of Varying Current and applying them in charging
Electricity,	and discharging of capacitor and time constant.
Magnetisms & Basic Electronics - IV	2. Aware the concept of AC circuits and different AC bridges.
	3. Understand the concepts Magneto statics and applying then to determine
	magnetic induction and also understand Ballistic Galvanometer theory and
	its constants.
	4. Acknowledge the rectifiers specially Bridge rectifier with filters also
	different wave shaping circuits.
	5. Discern BJT include its output characteristics under CE and CB mode with
	application of transistor amplifier
D. C. I	
B. Sc. I – Mathematics	At the end of course the student will
Algebra – I	1. Understanding the applications of matrices.
	2. Understanding how they can calculate roots of a complex numbers.
	3.Able to understand basic Maths
B. Sc. I – Mathematics	1. Calculate the limit and examine the continuity of a function at point.
Calculus - II	2. Explain the properties of three dimensional shape
	3.Able to understand the theorems
B. Sc. I –	Introduction to analytical geometry of 2 dimensional.
Mathematics Geometry - III	2. Study of lines in 2 and 3 dimension. ●
Scomery - III	3. Finding equation in various form of line, circle, ellipse, sphere, cones
	1
	etc.

B. Sc. I –	1. Student will be to understand differentiation and fundamental theorem in
Mathematics	differentiation and various rules.
Differential Equation-IV	
Equation-1 v	2.Geometrical representation and problem solving on MVT and Rolls theorem
	3. Finding extreme values of function
	4. Introduction to Ordinary Differential Equation.
B. Sc. I – Zoology	1. Student will be able to identify the diversity of animals.
Animal Diversity - I	2. Student will be able to understand and classify the diversity of animals.
	3. Students will be able to evaluate animal according to the level of
	Organization, body plan, symmetry, germ layer, coelom developments etc.
	4. Student will be able to understand Scientific Research Organizations.
B. Sc. I - Zoology	Student will be able to understand the importance of Classification of
	animals.
Animal Diversity –	2. Student will be able to classify them effectively using the six levels of
II	classification.
B. Sc. I – Zoology	1. Students will be able to understand the importance of Evolution & Structure
Comparative	of the vertebrates.
Account of	2. Compare the bones contain information about people lives such as where
integumentary, skeletal, digestive &	they came from, their age at death & which diseases they suffered from.
respiratory system	3. Understand about a person life & about human evolution.
in Vertebrates	
B. Sc. I - Zoology	1. The successful students will be able to establish research organization with
Gametogenesis &	the help of agriculture, environment protection.
Gastrulation	2. Students will be able to establish their own industry for transgenic animals, clinical pathology ,genetic counselling ,human karyotyping etc
B. Sc. I – Botany	1. The student can understand the basic concept of microbiology.
Microbiology and	2. Discuss the types viruses and diversity of bacteria and about the
Microbiology and Phycology - I	Mycoplasma.
	3. Explain the importance of algae
	4. The student can analyze about the division Cyanophyta along with
	example of Nostoc.
	5. The student grasps the knowledge about the division Cyanophyta along
	example of Vaucheria
	-
	6. They can understand the division Chlorophyta along with example of

	Spirogyra.
B. Sc. I – Botany	1. Describe the general introduction of true fungi.
Fungi and	2. Discuss about the division of Zygomycotina.
Archegoniate – II	3. The student can understand about the division of Ascomycotina
	4. The student gets a detailed idea about Archegoniate
	5. Explain the Bryophytes and life cycle of Riccia with its economic
	6. They get idea about the Pteridophytes and life cycle of Selaginella with its
	economic importance.
	7. The student can understand about the Gymnosperms and life cycle of
	Cycas with its economic importance.
B. Sc. I – Botany	1. They can understand about the Climatic and Edaphic factors of
Plant Ecology – III	environment. Ecological Adaptations Objective
80	2. They know the ecological adaptations in plants.
	3. Discuss about the plant communities Ecology
	4. The student can understand about the concepts of ecology Ecological
	succession
B. Sc. I – Botany	1. The student get knowledge about importance of taxonomy Classification
Taxonomy of	2. They can categorize classification systems in taxonomy
Angiosperms - IV	3. They can apply different methods of classification and rules of
	nomenclature
	4. They will know the idea about technique and botanical gardens in India
	Study of Angiosperm families
	5. The student can understand detailed identifying characters of family
B. Sc. I – Statistics - I	At the end of this course students are expected to be able to
	1. Acquire knowledge of data and types of data.
	2. Prepare frequency distribution and represent it graphically.
	3. Compute and interpret various measures of central tendency, dispersion,
	skewness, kurtosis etc.
	4. Analyse qualitative data.
B. Sc. I – Statistics -	At the end of this course students are expected to be able to
II	1. Distinguish between random and non-random experiments.
	2. Acquire knowledge of concepts of probability.
	3. Use basic theorems of probability.

	4. Understand concept of conditional probability and independence of events
	Contents.
B. Sc. I – Statistics - III	At the end of this course students are expected to be able to
	1. Compute correlation coefficient, interpret its value.
	2. Compute regression coefficient, interpret its value and use in regression
	analysis.
	3. Compute and interpret various index numbers.
	4. Compare various index numbers.
B. Sc. I – Statistics -	At the end of this course students are expected to be able to
IV	1. Acquire concept of discrete random variable and its p.m.f. and c.d.f.
	2. Compute mathematical expectation of random variable.
	3. Acquire knowledge of discrete probability distributions.
	4. Apply discrete probability distributions in real life situations.
B. Sc. II –	Student should learn
Chemistry Organic	Functional group conversions
Chemistry – V	2. Handling of instruments to develop instrumental skills with respect to
	industries
B. Sc. II –	Student should learn
Chemistry	Nomenclature of inorganic and organic compounds and their
Inorganic	characterization
Chemistry - VI	2. The basic principles in physical chemistry
	3. The basic concepts involved in organic chemistry
B. Sc. II	
Chemistry	Student should learn 1. Basic skills of gravimetric and semi micro analysis.
Physical Chemistry	2. The basic principles in physical chemistry
VII	3. The separation and identification techniques for organic compounds.
B. Sc. II –	Student should learn
Chemistry	
Analytical	Preparation of standard solutions and analytical skills Preparation of the chemistry slang with the practical applications (skills).
Chemistry – VIII	2. Basics of the chemistry along with the practical applications/skills,
	industrial usage 3. The principles underlying the different instrumental experiments
D.C. II	3. The principles underlying the different instrumental experiments
B. Sc. II	After completion of B.Sc. Microbiology programme, student will be able to:

Microbiology	1) The students can understand the differences between cell organallies.
	2) They can learn structure, composition and functions of various organelles
Batcerial Cytology	present in eubacteria and archaebacteria.
& Physiology - V	3) They will understand the growth pattern of bacteria and determination of
	generation time.
	4) They can learn about bacterial physiology which comprises Metabolic
	pathways like EMP, HMP, ED, Phosphoketolase, Glyoxylate, TCA.
B. Sc. II	After completion of B.Sc. Microbiology programme, student will be able to:
Microbiology	1) The students can understand the experimental evidances for nucleic acid
0	as genetic material.
Batcerial Genetics -	2) Catagrise different forms and structure of DNA.
VI	3) The student will gain a basic understanding on human genetics and
	hereditary.
	4) Classify mutations by type, and describe how mutations are
	prevented and repaired.
B. Sc. II	After completion of B.Sc. Microbiology programme, student will be able to:
Microbiology	1) They study immunity, formation of blood, organs of immunity, antigen,
0	antibody, innate immunity, acquired immunity, cell mediated immunity.
Immunology &	2) To make them understand the salient features of antigen antibody reaction
Medical	& its uses indiagnosties and various other studies.
Microbiology - VII	3) Learn about immunization and their preparation and its importance.
3.	4) The students can understand in detail about the bacterial, fungal and viral
	diseases.
	5) Students will be able to correlate disease symptoms with causative agent,
	isolate and identify pathogens.
B. Sc. II-	After completion of B.Sc. Microbiology programme, student will be able to:
Microbiology	1) Develop an understanding of fermentation & inoculum media, their
	formulation and principles & techniques of sterilization.
Industrial	2) Appreciate how microbiology is applied in manufacture of industrial
Microbiology - VIII	products.
	3) They learn methods in discovery of new useful microorganisms and
	acquire knowledge of the design of Fermentors and process controls.
	4) They will understand different types of fermentation processes &
	<u> </u>

	understand the biochemistry of various fermentations and product
	recovery methods.
	5) Students will understand the importance of application of fermentation
	technology in large scale production of different microbial products.
B. Sc. II – Physics	After completion of the course the students
General Physics and	1. Understand vector analysis, differential operators and their physical
Sound - V	significance.
	2. Understand the concepts of precession, nutation and its applications.
	3. Understand the concept of elasticity and its relevance.
	4. Understand the concept of viscosity and different viscometer.
	5. Illustrate concept of acoustics and its applications. 6. Develop problem
	solving skills and able to assess the results.
B. Sc. II Physics	After completion of the course the students
Electronic Devices	1. Understand the basic theory and operation of semiconductor devices used
and Applications -	for its circuit applications.
VI	2. Understand the basic circuit concepts and responses.
	3. Get hands-on on various electronic circuits and instruments.
	4. Get expose to electronics technologies.
B. Sc. II Physics	After completion of the course the students
Geometrical,	1. Understand the cardinal points of lens system
Physical and Fibber	2. Understand the phenomenon of interference of light. Michelson's
Optics– VII	interferometer and F-P interferometer and its applications
	3. Understand phenomenon of diffraction of light and use of zone plate
	4. Understand concept of resolving power and find R.P of prism and grating
	5. Understand polarization, optically active substance and its use in
	polarimeter
	6. Understand of optical fiber and its use in communication system.
B. Sc. II – Physics	After completion of the course the students
Modern Physics –	1) Understanding of modern theories and evolution of physics from classical
VIII	to its modern era.
	2) Understand the intuitive ideas of the relativity.
	3) Understand the nature of light in the form wave-particle duality.
	4) Describe crystal structure with X-ray diffraction.

B. Sc. II –	1. Gain Knowledge of fundamental concepts of real numbers in n dimensions.
Mathematics Differential Calculus – V	2. verify the value of the limit of a function at a point using the definition of the limit in R*R3Find the extreme value in 2 dimensions
	4 Study multiple integration.
B. Sc. II –	1. Learn to solve system of linear equation.
Mathematics Laplace Transform	2. Learn to solve Diophantine equation.
– VI	3. Learn to find roots of polynomial over rational.
B. Sc. II – Mathematics	1. provide the tools to get the easy and precise outcome to various applications of science and technology.
Differential Equations - VII	2. Logical development of various algebraic statements can be made to develop the innovative approach of various concepts and it can be applied to various abstract things.
B. Sc. II –	1. Understand the importance of algebraic properties with regard to working
Mathematics	within various number systems.
Abstract algebra-I - VIII	2. Extend group structure to finite permutation groups (Caley Hamilton Theorem).
	3. Generate groups given specific conditions.
	4. Symmetry using group theory.
	5. Understand the three major concrete models of Boolean algebra: the algebra of sets, the algebra of electrical circuits, and the algebra of logic
B. Sc. II – Zoology	Students will be able to understand structure &function of different cell
Cell Biology - V	organelles &the molecular organization.
B. Sc. II - Zoology	Students will be able to understand Biotic & Abiotic Factor, Self
Principal of Ecology – VI	employment,research,& innovation.

B. Sc. II - Zoology	Outcomes-Students will be understanding of fundamental biochemical
Fundamental of	principles such as structure,function of biomolecules,metabolic pathway &
Biochemistry - VII	regulation of biological,Biochemical Processes.
B. Sc. II - Zoology	Students will be able to understand the function of important physiological
Control &	system including digestion, cardio respitarory, muscle, reproductive
Coordination – VIII	&endocrine gland.
B. Sc. II – Botany	1) The students can understand about cell structure of Meristem, their role &
District Association N	classification
Plant Anatomy - V	2) The students can understand about structural organization in plants
	3) The students can understand structure, types & functions of simple &
	complex tissue
	4) The students can understand organization of vascular bundle, types of
	tissue system & their role
	<u>5)</u> Students will understand the anatomical features of root & stem.
	6) Students will understand the difference in primary & secondary anatomical
	features of root & stem.
	7) Students will understand the anomalous secondary structure of stem & their
	functions
B. Sc. II – Botany	1) Students will get knowledge about different macro & micro nutrients & its
Plant metabolism –	role for plant growth & development
VI	2) Students will understand different enzymes & their mechanism
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	3) Students will get knowledge about types of growth regulators their
	biosynthesis & physiological roles for plant development
	4) Students get knowledge about importance of nitrogen, types of nitrogen
	fixation
	5) Students get knowledge about types of carbohydrates, its classification &
	examples
B. Sc. II – Botany	1) Students will get knowledge about Enzymes involved in Photoperiodisim &
	its role in plant development
Plant Physiology –	2) Students will get knowledge about enzymes involved, process &
VII	importance of vernalization.
	3) Students will get knowledge about translocation, types of transport, source
	& sink relationship

	4) Students will get knowledge about light, dark reaction, enzymes involved
	& its role in plant development
	5) Students will get knowledge about process of respiration in plants, enzymes
	involved & their roles
	6) Students will get knowledge about Mechanism of photorespiration & its
	significance
B. Sc. II – Botany	1) Students will get knowledge about different terms in plant embryology,
	structure of flower
EMBRYOLOGY	2) Students will get knowledge about microsporogenesis,
OF	megasoporogenesis, development of male, female gamete
ANGIOSPERMS	3) Students will get knowledge about types of pollination, process of
*/***	fertilization
- VIII	4) Embryo, Endosperm Development & Seed and fruit dispersal
	5) Students will get knowledge about stages of endosperm development
	6) Students will get knowledge about development process of monocot &
	dicot embryo
	7) Students will get knowledge about mechanism of fruit, seed dispersal,
	agencies & conditions.
B. Sc. II – Statistics -	By the end of the course students are expected to be able to:
\mathbf{V}	a) Understand concept of discrete and continuous probability distributions
	with real life situations.
	b) Distinguish between discrete and continuous distributions.
	c) Find the various measures of random variable and probabilities using its
	probability distribution.
	d) Know the relations among the different distributions.
	e) Understand the concept of transformation of univariate and bivariate
	continuous random variable.
B. Sc. II – Statistics -	By the end of the course students are expected to be able to be:
VI	a) Understand the concept of Multiple Linear Regression.
	b) Understand the concept of Multiple Correlations and Partial Correlation.
	c) Know the concept of sampling theory.
	d) Understand the meaning, purpose and use of Statistical Quality Control,
	construction and working of Shewhart's control charts for variables and

	attributes ij.k ij
B. Sc. II – Statistics -	By the end of the course students are expected to be able to:
VII	a) Know some standard continuous probability distributions with real life
	situations.
	b) Distinguish between various continuous distributions.
	c) Find the various measures of continuous random variable and probabilities
	using its probability distribution.
	d) Understand the relations among the different distributions.
	e) Understand the Chi-Square, t and F distributions with their applications
	and inter relations.
B. Sc. II – Statistics -	By the end of the course students are expected to be able to:
VIII	a) Know the concept and use of time series.
	b) Apply the small sample tests and large sample tests in various situations.
	c) Understand the need of vital statistics and concept of mortality and fertility.
B. Sc. III : English	By the end of the course
Comp.	
	• The students will be able to Use oral and written English effectively.
	Appreciate literary language.
	• Use English language in creative writing• Apply English language skills in
	clearing competitive examinations.
B. Sc. III:	On Completion of the course learners will able to understand —
Chemistry	CO1: Pure rotational (microwave), Vibrational – rotational (IR) and Raman
Physical Chemistry	Spectra.
- IX	CO2: Molar mass determination using colligative properties.
	CO3: Application of collision theory to unimolecular & primolecular reaction
	& study of kinetics of fast reactions.
	CO4 : Measurement of Radioactivity use of radioisotopes, nuclear reactions
	CO5: Types of adsorption isotherms. Determination of surface area of an
	adsorbent using B.E.T. equation.
	CO6 : Electrical properties of colloids colloidal electrolyte and surfactants.

B. Sc. III:	On completion of the course learners will able to understand –
Chemistry	CO1 : Comparative Chemistry of group 16 & 17
Inorganic	CO2: Chemistry of inner transition elements & non aqua our solvents.
Chemistry - X	CO3: structure of solids w.r.f. packing lattice in space.
	CO4: Bonding in polyatomic space CO5: Basic concept of molecular
	symmetry with respect to symmetry elements, symmetry elements and point
	groups.
B. Sc. III:	On completion of course learners will be able to understand –
Chemistry	CO1: Understand importance of green chemistry.
Organic Chemistry -	CO2: Understand acyl nucleophilic substitution mechanism and
XI	stereochemistry of compounds.
	CO3: Understand acyl nucleophilic substitution mechanism and
	stereochemistry of compounds.
B. Sc. III:	On completion of course learners will be able to understand —
Chemistry	CO1: Quality, Quality control, Quality assurance. Sampling of gases, liquids
Analytical	& solids. Preservation of sample.
Chemistry - XII	CO2: Instrumental methods of analysis – flame photometry, Atomic
	absorption spectroscopy, Liminescece, Turbidimetry.
	CO3: Chromatography – HPLC, HPTLC.
B. Sc. III:	On Completion of course learners will be able to know –
Chemistry	CO1: Drugs & their administration.
Applied	CO2: Antipyretic inflammatory, histaminic, cardio vascular, diabetic,
Components : Drug	Parkinson, respiratory drugs.
& Dyes - XIII	CO3: Dyes, natural & synthetic dyes. Synthesis & uses of dyes.
B. Sc. III :	CO1: activity, activity coefficient & ionic strength.
Chemistry	CO2: Chemical cells & concentration cells.
Physical Chemistry - XIV	CO3: Concentration polarization, decomposition potential and overvoltage (Determination of Ed & n)
- AIV	CO4: Basic terms & Classification of polymers. Molar masses of polymers &
	its determination.
	CO5: Methods of preparation, characteristics & application of light emitting
	polymers.

	CO6: antioxidants and stabilizers.
	CO7: Classical mechanics and quantum mechanics including boundary
	conditions, properties of wave function & wave equation concept of operators,
	Eigen function and Eigen value
	CO8: Renewable energy resources solar energy & hydrogen.
	CO9: Principle, instrumentation & applications of NMR & ESR
	spectroscopy.
B. Sc. III:	Chemistry On Completion of the course learner will be able to –
Chemistry	CO1: Understand Basic concept of CFSE, Geometry of Various transitions.
Inorganic	CO2: Know Construction of ligand group orbitals, construction of various
Chemistry - XV	Complexes, stability, and reactivity of metal complexes.
	CO3: Understand various organometallic compounds, catalyst etc. CO4:
	Understand chemistry of Gr. 18, Biological importance of metal ions.
B. Sc. III:	On Completion of the course learner will be able to –
Chemistry	CO1: Understand stereo chemistry of various reactions.
Organic Chemistry -	CO2: Understand configuration of amino acids, polypeptides & proteins.
XVI	CO3: Understand molecular rearrangements, various types of sugars & their
	stereochemistry.
	CO4: Understand Spectroscopy.
	CO5: Understand various polymers catalysts and reagents with their effects.
B. Sc. III:	CO1: Electro analytical methods polarography, Amperometry.
Chemistry	CO2: Chromatography – Gas & Ion exchange chromatography.
Analytical	CO3: Food and cosmetic chemistry.
Chemistry - XVII	CO4: Thermal methods of chemical analysis.
B. Sc. III:	CO1: Discovery & development of drugs, their metabolism.
Chemistry	CO2: Chemotherapeutic agents, anti-amoebic, tubercular, leprotic, neoplastic,
Applied	HIV drugs.
Components Drug	CO3: Classification of dyes, their properties and uses.
& Dyes - XVIII	CO4: Dyestuff industry

B. Sc. III: After completion of B.Sc. Microbiology programme, student will **Microbiology** be able to: Virology - IX 1) The students describe and review the elements of viral life cycle. 2) They can compare and contrast replication mechanism used by viruses relevant for human disease. 3) Compare and contrast methods used for laboratory diagnosis of viral infections. 4) Describe Viral strategies to invade host immune and cellular factors. 5) The students can grasp the knowledge about the techniques in virology. 6) Categorize different types of cancer and characteristics of cancerous cell. 7) study of virally infected lesions of plant materials. 8) Understanding the process of isolation of coliphages from sewage. B. Sc. III: 1) Gain knowledge on several beneficial and harmful micro-organisms. Microbiology 2) Introduce micro-organism in agricultural system for building a pathway for **Agricultural** sustainable agriculture Microbiology - X 3) Know the complex interaction between agriculture system and microorganism. 4) The students can figure out the role of microorganisms in elemental cycles. 5) Categorize different types of composting. 6) Describe Physical and chemical characteristics of soil. 7) Study of plant pathogens. 8) The students can understand in detail about the application of biotechnology in agriculture. B. Sc. III: 1) Students will understand Immunology lead to careers in infectious diseases, Microbiology diagnostics, molecular biology, biotechnology, vaccinology, or biosafety and **Immunology - XI** regulation. 2) Students will understand the study of the immune system to improvise health and fight against diseases. 3) Study the physical, biological and chemical processes going on the human body. 4) They understand the specialization is to improve the health system of the human being. 5) The graduates have scope in the field of drugs and vaccine development,

	nutrition and human health and also in ongoing research efforts in
	immunotherapy, autoimmune diseases, allergies, cancer treatments and
	vaccines.
	6) Understand how the immune system protects us and how it can go wrong
	and cause disease, as in autoimmune conditions and allergies.
	7) Students Learn about ways the immune system can be used to prevent
	disease and to promote better clinical outcomes, as in vaccines and in
	situations of transplantation and cancer therapy.
	8) Graduated students get employment in government and private research
	institutes, hospitals, healthcare centres and laboratories.
B. Sc. III:	1) Understand the instruments, microbial techniques and good lab practices
Microbiology	for working in a microbiology laboratory.
Industrial Microbiology	2) Students get Practical skills in the laboratory experiments in microbiology.
Microbiology.	3) Students will develop knowledge about various types of fermenters used in
	laboratory and industries.
	4) Students will learn the processing and quality control of fermentation
	products.
	5) Students will understand industrially relevant substances developed by
	microorganisms.
	6) Students will be able to work in a variety of fields, including higher
	education institutions, public health, environmental organizations, and the
	food, dairy, pharmaceutical, biotechnology industries.
	7) They will learn about the special role microbes play in genetic modification
	technologies.
	8) The students will learn about the microorganisms having impact on
	environment and agriculture.
B. Sc. III:	1) The students can understand the basic concept of microbial genetics.
Microbiology Microbial Genetics - XIII	2)Browsing the National Centre for Biotechnology Information (NCBI),
	DDBJ and EMBL websites.
	3) The students can know techniques in molecular biology.
	4) Explain Operon Concept (Lac operon).
	5) They can understand the effects of mutation.
	6) Isolation Electrophoretic separation of DNA.
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7) They will be exploring protein sequence database (PDB) and Gene Bank and BLAST 8) They will get idea about the techniques and application of genetic engineering and protein engineering. B. Sc. III: 1)Gain the knowledge on the microorganisms present in the environment **Microbiology** 2) They will get idea about the municipal water purification process. Environmental 3) Assess the DO, BOD, COD of environmental water. Microbiology -4) Examine the microorganisms in the environment. XVI 5) Explain in detail about the different techniques of waste water analysis. 6) Formulate methods for exploring microorganism for human benefit. 7) The students can microbiological analysis of drinking water. 8) Prioritize the methods making pollution free environment. 9) Becoming prepared for discussion about advantages and disadvantages of different hazardous waste management, options, methods and technologies. B. Sc. III: 1) Students will gain knowledge about the different cell organelles of Microbiology microorganisms and their detailed functions. Clinical 2) Students will also study the growth and control of microbes as well as Microbiology different bacteriological techniques involved in microbiology. $\mathbf{X}\mathbf{V}$ 3) Students will learn knowledge about bacteria and viruses that can cause infectious disease. 4) Students will understand Reducing waste will not only protect the environment but will also save on costs or reduce expenses for disposal. 5) They learn that Exposure to hazardous biomedical waste can cause disease or injury to human health. 6) Students will learn Proper biomedical waste management is essential to protect the health of healthcare workers, the public, and the environment. 7) Students will understand the pathogenicity is the quality or state of being pathogenic, the potential ability to produce disease, whereas virulence is the disease producing power of an organism, the degree of pathogenicity within a group or species. 8) Students will understand biological weapons can be used for political assassinations, the infection of livestock or agricultural produce to cause food

	shortages and economic loss.
B. Sc. III : Microbiology	1) Students will use current biochemical and molecular techniques to plan and
	carry out experiments.
Microbial	2) Students will learn about enzymes and enzymes kinetics have both
Biochemistry -	biological and chemical attributes.
XVI	3) Students will also learn about the process of taking individuals or social
	groups and absorbing them into mainstream culture.
	4) They understand how energy is produced, stored, and used in living
	organisms.
	5) Students will understand the Molecular size, solubility of enzymes.
	6) They learn about creating food sources, energy production, and creating
	large macromolecules.
	7) Students also learn about Some products of these processes include amino
	acids, nucleic acids, the energy-rich molecule ATP, and the simple sugar food
	source, glucose.
	8) Students will Understand the concept about Hypothesis.
B. Sc. III:	1. Students will be able to define ring and subrings.
Mathematics	2 .Study of ideals and concept related to ideal.
Algebra-II - IX	3. Study of various integral domain in ring.
9	4. Introduction to field
B. Sc. III :	Compute sums, products, quotients, conjugate, modulus, and argument
Mathematics	of complex numbers · Define and analyze limits and continuity for
Complex -	complex functions as well as consequences of continuity ·
Analysis -II - X	2. Conceive the concepts of analytic functions and will be familiar with
	the elementary complex functions and their properties · Determine
	whether a given function is differentiable, and if so find its derivative.
	Applies the theory into application of the power series expansion of
	analytic functions ·
	3. Understand the basic methods of complex integration and its
	5. Officerstand the basic methods of complex integration and its

B. Sc. III : Mathematics Real-Analysis - XI	 application in contour integration. 4. Analyze sequences and series of analytic functions and types of convergence, 5. Evaluate complex contour integrals directly and by the fundamental theorem, apply the Cauchy integral theorem in its various versions, and the Cauchy integral formula. 1. Understand Integrability and theorems on integrability. Recognize the difference between point wise and uniform convergence of a sequence of functions.
	2. Illustrate the effect of uniform convergence on the limit function with respect to continuity, differentiability, and integrability.3. Study improper integration using Riemann integration.
B. Sc. III : Mathematics Partial Differential Equations - XII	 Be familiar with the modelling assumptions and derivations that lead to PDEs. Recognize the major classification of PDEs and the qualitative differences between the classes of equations. Be competent in solving linear PDEs using classical solution methods.
B. Sc. III: Mathematics Metric Spaces – XIII	 1.Able to understand the Euclidean distance function on R n and appreciate its properties, and state and use the Triangle and 2. Reverse Triangle Inequalities for the Euclidean distance function on R n 3.Explain the definition of continuity for functions from R n to R m and determine whether a given function from R n to R m is continuous 4. Explain the geometric meaning of each of the metric space 5.Distinguish between open and closed balls in a metric space 6.Define convergence for sequences in a metric space and 7.Determine whether a given sequence in a metric space converges.
B. Sc. III : Mathematics Numerical Analysis - XIV	Apply appropriate numerical methods to solve the problem with most accuracy. Using appropriate numerical methods determine approximate solution of

	ODE and system of linear equation.
	3Compare different methods in numerical analysis w.r.t accuracy and
	efficiency of solution.
B. Sc. III :	Understand logical concepts and to show logical equivalences by using
Mathematics Graph Theory -	truth tables and rules in logics.
XV	2. Learn concept related to counting.
	3. Introduction to advanced counting.
B. Sc. III:	1. Student will be to understand differentiation and fundamental theorem in
Mathematics	differentiation and various rules.
Integral Calculus	
- XVI	2. Geometrical representation and problem solving on MVT and Rolls
	theorem.
	3. Finding extreme values of function.
	4. Introduction to Ordinary Differential Equation.