



K. K. Wagh Education Society's
K. K. Wagh Arts, Commerce, Science & Computer Science College, Kakasaheb Nagar
At. Post. Kakasaheb Nagar, Tal. Niphad, Dist. Nashik – 422308.
(Affiliated to Savitribai Phule Pune University)

SPPU ID: PU/NS/ACSCS86/2004 College Code: 774 A.I.S.H.E. Code: C-42166

Programme Outcomes (POs) and Course outcomes (COs) for all programmes offered by the institution are stated and displayed on the website

Department of English

Programme B.A. English

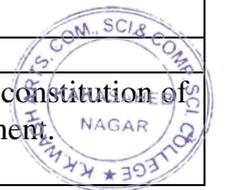
Programme Outcomes, Programme Specific Outcomes, and Course Outcomes.
After completion of the programme, the students should be able to know.

- Educate students in both the artistry and utility of the English language through the study of literature and other contemporary forms of culture.
- Provide students with the critical facilities necessary in an academic environment, on the job.
- Graduate students who are capable of performing Research, Analysis, and criticism of Literary and Cultural text from different Historical Periods and Genres
- Assist Students in the development of Intellectual Flexibility, Creativity, and Cultural Literacy so that they may engage in lifelong learning.

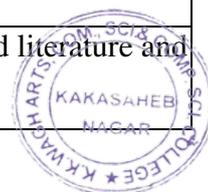
Programme Outcomes		
PO1	Educate students in both the artistry and utility of the English language through the study of literature and other contemporary forms of culture.	
PO2	Provide students with the critical facilities necessary in an academic environment, on the job.	
PO3	Graduate students who are capable of performing Research, Analysis and criticism of Literary and Cultural text from different Historical period And Genres	
PO4	Assist Student in the development of Intellectual Flexibility, Creativity and Cultural Literacy so that they may engage in life-long learning.	
PO5	Effective Citizenship: Execute their duties and responsibilities as citizens successfully by being a part of larger community.	
PO6	Environment and Sustainability: Become aware about the issues related to environment and the steps needed to be implemented for its sustainability through the study of texts with ecological elements and dimensions.	
Programme Specific Outcomes		
PSO1	English Graduate Student can find Employment in the call centers and Mass -media.	
PSO2	For English graduate the options of Public Services are always open.	
PSO3	Work as a Teacher in Secondary School and in the English Medium Schools	
PSO4	Serve as a Guide in the Tourist Companies.	
Course Outcomes		
Class	Course	Outcomes



FYBA	Compulsory English	1. Students will understand the concept of short story.
		2. Student will develop the ability to comprehend the written texts
		3. Moral and human values will be inculcated amongst the student
		4. Students will be aware of the aesthetic pleasure of literature.
		5. Students speaking and writing of English ability will be developed.
		6. Student will be aware of the importance of the communicative Competence.
	Optional English (General Paper-I)	1. Students will Comprehend the written text
		2. Students' communication skills will be developed
		3. Students will understand the basic concepts of short –story
		4. Students will understand the poetical types
		5. Students imaginative writing skill will be developed.
	Indian Economic Environment (G-1)	1. Familiarize the students with the recent developments in the Indian Economy and understand the background of the Indian Economy.
		2. Understand and comprehend the current business scenario, agricultural scenario and other sectorial growth in the Indian context.
		3. Develop an understanding of the economic environment and the factors affecting the economic environment.
		4. Compare and contrast the Indian Economy with other world economies.
		5. Discuss and debate the various issues and challenges facing the Indian Economic Environment.
		6. Help the students to prepare for varied competitive examinations.
	मराठी साहित्य कथा आणि भाषिक कौशल्य विकास (G1) SEM - I	१. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
		२. सारांश लेखन ही भाषिक, सारग्रहण, संभाषण, लेखन, विद्यार्थ्यांत वाचन .कौशल्ये विकसित होण्यास मदत होते.
		३. विद्यार्थ्यांत पाठ्यपुस्तकेतर वाचनाची आवड निर्माण झालेली दिसते.
		४. कथा या साहित्यप्रकाराविषयी रुची निर्माण होण्यास मदत होते.
		५. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
	मराठी साहित्य एकांकिका आणि भाषिक कौशल्य विकास (G1) SEM - II	१. अभ्यासक्रमातून विद्यार्थ्यांना नाटक या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते .
		२. एकांकिका या साहित्यप्रकाराविषयी आवड निर्माण होण्यास मदत होते .
		३. विद्यार्थ्यांत संवादलेखनभाषांतर ही भाषा उपयोजनाची रूपे वापराबाबत ,घोषवाक्यलेखन ,कल्पनाविस्तार, जाणीवजागृतीनिर्माण झालेली दिसते.
	Physical Geography Sem. I & Human Geography Sem-II (G-I)	1. Develop the geographical maturity in their current and future courses.
2. Develop theoretical, applied and computational skills.		
3. Develop the geographical maturity in their current and future courses.		
4. Develop theoretical, applied and computational skills.		
Introduction to Indian	1. To acquaint students with the important features of the constitution of India and with the basic framework of the Indian government.	



	constitution SEM-I	2.To familiarize students with the working of the constitution of India.
	Introduction to Indian constitution SEM-II	1.To acquaint students with the important features of the constitution of India and with the basic framework of Indian government.
		2.To familiarize students with the working of the constitution of India
	Democracy Elections & Governance Sem-II	1.To introduce the students meaning of democracy and the role of governance 2.To help them understand the various approaches to the study of democracy and governance.
	Early India G-I SEM-I & II	1. Students should have information of sources of Ancient Indian History
		2. Students will be able to examine institutional basis of Ancient India.
		4. The history of Early India is a crucial part of Indian history. It is a base for Understanding the entire Indian history
		5. Student understands the history of early India from the prehistoric times to the age of the Maury's and the major developments in early Indian history.
		1. Students will explain to illustrate the development of empire.
		2. Students will be able to explain our heritage through cultural aspects of Ancient India.
		3. Students are must be knowing the achievements of some eminent kings in Ancient India.
		4. Course will be introducing the students to the developments in different parts of India through a brief study of regional kingdoms up to the tenth century C.E.
		5. Students will be able to explain the consequences of the foreign invasions, particularly on the polity, economy, society and art and architecture.
		Compulsory English
	2. Realize the beauty and the Communicative power of English.	
	3. Develop interest in reading literary pieces.	
	4. Acquire overall linguistic competence and communicative skill.	
	5. To expose them to native cultural experiences and situation in order to develop human values and social awareness	
SYBA	General English: Study of English Language and Literature (G-II)	1. To understand students to the basics of short story, one of the literary form
		2. Get familiarized with different types of short stories in English
		3. Perceive the literary merit, beauty and creative use of language
		4. Become aware of the technical aspects and their practical usage
		5. To prepare students to go for detail study and understand literature and language



		6. Develop integrated view about language and literature in them.
Appreciating Drama S-I		1. Get acquainted with the terminology in Drama Criticism (i.e. The term used in critical analysis and appreciation of Drama
		2. To understand few sample masterpieces of English Drama from different parts of the world
		3. Acquire ability to appreciate and analyze Drama independently
		4. To enhance student awareness in aesthetic of Drama and to empower them to evaluate Drama independently
Special Paper- (S-II) Appreciating Poetry		1. To understand the terminology in Poetry criticism (i.e. The term used in critical analysis and appreciation of poem)
		2. Understand a few sample masterpieces of English Poetry
		3. Acquire ability to read , appreciate and critically evaluate the Poetry independently
Indian Financial System Sem. I & II(G-II)		1. To understand fundamentals of modern financial system.
		2. To understand the recent trends and developments in banking system.
		4. To understand the role of the Reserve Bank of India in Indian financial system.
		5. To enhance the students the knowledge of various financial and non-financial institutions.
		6. To enhance the students the intricacies of Indian financial system for better financial decision making.
Micro Economics Sem. I & II S-1		1. The students will be familiar about the scope of Economics and the employability
		2. Through the study of micro Economics the student will gain the Knowledge economic concept.
		3. The students will develop the capacity of the basic theories of Micro Economics.
		4. To develop an understanding of basic theories of Micro Economics and their applications
		5. To demonstrate that the theories discussed in class will usually be applied to real-life situations
Macro Economics Sem. I & II S-II		1. The students will be gaining the knowledge about the role of money in the economy.
		2. The students will increase the knowledge of the conceptual and total frameworks of inflation, deflation and Stagflation, Business Cycle.
		3. The students will be familiar the role of monetary and fiscal Policies, full employment and growth.
		4. Help the students to prepare for varied competitive examination.
भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार कादंबरी (G2) (Sem – III)		१. अभ्यासक्रमातून विद्यार्थ्यांना कादंबरी या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते .
		२. कादंबरी साहित्यप्रकारची वाटचाल समजते .
		३. संगणक व मोबाईलवर मराठी मुद्रण करण्याचे कौशल्य विकसित करण्यास मदत होते .
		४ कादंबरी अभ्यासातून सैन्य व हिमालयातील आव्हानांचा परिचय होतो .
		१. अभ्यासक्रमातून विद्यार्थ्यांना ललितगद्य या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते.



भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार ललितगद्य -(G2) (Sem – IV)	२. ललितगद्य साहित्यप्रकारची वाटचाल समजते.	
	३. गुगल फॉर्म ,गुगल क्लासरूम व युट्युब या साधनांच्या वापराबाबत जाणीवजागृती निर्माण झालेली दिसते ,	
साहित्य विचार - III (S2)	१. अभ्यास क्रमातून विद्यार्थ्यांना भारतीय आणि पांच्यात्य साहित्य विचाराच्या आधारे साहित्याची संकल्पना आणि प्रयोजन विचार समजतात. २. साहित्याची निर्मिती प्रकीया समजते. ३. साहित्याची भाषा आणि शैलीविषयक विचार समजते.	
साहित्य समीक्षा - IV (S2)	१. साहित्याची संकल्पना, स्वरूप यांचा परिचय होते. २. साहित्य आणि समीक्षा यांचे परस्पर संबंध समजतात. ३. साहित्य प्रकारानुसार समीक्षेचे स्वरूप समजून घेतात. ४. ग्रंथ प्ररीचय परीक्षण व समीक्षण यातील फरक समजतात.	
Environment Geography (G-II)	1. Become aware about dynamic environment among the student.	
	2. Acquaint with fundamental concepts of environment geography for development in different areas.	
	3. Integrate various factors of Environment and dynamic aspect of Environmental geography.	
	4. Become aware about the problems of environment, their utilization and conservation in the view of sustainable development	
	Introduction to political ideologies- I	1.To acquaint students with the important features of the constitution of India and with the basic framework of Indian government.
		2.To familiarize students with the working of the constitution of India.
	Introduction to political ideologies- II	1. Role of different political ideologies and their impact in politics.
		2. Close link between an idea and its actual realization in public policy.
		3. Legacy of all the major ideologies.
	History of Maratha(G-II)	1. Student will develop the ability to analyses sources for Maratha History.
2. Student will learn significance of regional history and political foundation of the region.		
3. It will enhance their perception of 17th century Maharashtra and India in context of Maratha history.		
4. Appreciate the skills of leadership and the administrative system of the Marathas.		
1. Students will be able to analyze the Marathas policy of expansionism and its consequences.		
2. They will understand the role played by the Marathas in the 18th century India.		
3. They will be acquainted with the art of diplomacy in the Deccan region.		
Compulsory English	1. Get introduce the best uses of language in Literature	
	2. Get familiarized with the communicative power of English	
	3. Became competent users of English in real life situations	
	4. Get introduce the best uses of language in Literature	
	5. Get familiarized with the communicative power of English	



	General English (G-II): Advanced Study of English Language and Literature	<p>1.To get the awareness of career opportunities available to them.</p> <p>2. To identify the career opportunities suitable to them.</p> <p>3. To understand the use of English in different careers.</p> <p>4. To develop competence in using English for the career of their choice.</p> <p>5. To enhance skills required for their placement.</p> <p>6. To use English effectively in the career of their choice.</p>
TYBA	Economic Development & Planning G-III	1. The students will be familiar with the concept of economic development & growth.
		2. The students will be the theories & approaches to economic development.
		3. The students will be exposed to the indicators of economic growth & development
		4. The students will enable to understand the concept of developed & developing countries
	International Economics S-III	1.Familiarize with the student with the basic principles of the free flow of trade at the global level.
		2. Know the impact of free trade and tariffs on the different sectors Of the economy.
		3. Expose to rationale of recent changes in the export import polices of India.
		4. Understand the concept of globalization and liberalization
		5.Familiarize with the student with the basic principles of the free flow of trade at the global level.
	Public Finance S-IV	1.To make students to analyze the role of Public Finance in Economic Development
2.To know the sources of Revenue, Expenditure and Debt of Govt. of India.		
3.To make students competent to become success in competitive examination.		
1.To make students able to analyze Budget process of India.		
2.To make the students aware about Role and working of Finance Commission		
Regional Geography of India (G-III)	1. Acquaint with geography of our Nation.	
	2. Become aware of the magnitude of problems and Prospects at National level.	
	3. Understand the inter relationship between the subject and the society.	
	4. Understand the recent trends in regional studies.	
आधुनिक मराठी साहित्य आणि व्यावहारिक व उपयोजित मराठी (G3)	१. अभ्यासक्रमातून विद्यार्थ्यांना निबंध व प्रवासवर्णन या साहित्यप्रकारांचे स्वरूप आकलन झालेले दिसते.	
	२. प्रवासवर्णन साहित्यप्रकारची वाटचाल समजते.	
	३. मराठी ग्रंथ परीक्षण करण्याचे कौशल्य विकसित करण्यास मदत होते .	
	४. प्रवासवर्णन अभ्यासातून सूक्ष्म निरीक्षणशक्तीचा विकास होतो.	
मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० (S-3) Sem-V	१. वाङ्मय इतिहासाची संकल्पना, स्वरूप प्रेरणा आणि प्रवृत्ती विद्यार्थ्यांना ज्ञात होते.	
	२. विद्यार्थ्यांना मध्ययुगीन कालखंडाची सामाजिक, सांस्कृतिक पार्श्वभूमी समजते.	
	३. मराठी भाषा आणि साहित्याचा कालखंडानुरूप इतिहास विद्यार्थ्यांना ज्ञात होतो.	
मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० ते इ. स. १८५७ (S-3) Sem-VI	१. अभ्यासक्रमातून विद्यार्थ्यांना शिवकाळ आणि पेशवे काळातील वाङ्मय निर्मितीची माहिती होते.	
	२. पंडीत आणि शाहिरांच्या वाङ्मय निर्मितीची माहिती विद्यार्थ्यांना मिळते.	
	३. बखर आणि गद्य वाङ्मय निर्मितीविषयी विद्यार्थ्यांना जाणतात.	



वर्णनात्मक भाषाविज्ञान: भाग-१ (S4-) Sem-V	१. भाषेचं स्वरूप, वैशिष्ट्ये आणि कार्ये विद्यार्थी समजून घेतात.
	२. भाषा अभ्यासाची आवश्यकता विद्यार्थ्यांना ज्ञात होते.
	३. विद्यार्थ्यांना भाषा अभ्यासाच्या शाखा आणि विविध पद्धतीचा परिचय होतो.
	४. स्वनविज्ञान, स्वनिमविचार आणि मराठीची स्वनिमव्यवस्था विद्यार्थी समजून घेतात
वर्णनात्मक भाषाविज्ञान: भाग-२ (S4-) Sem-VI	१. रूपविन्यास आणि मराठीची रूपव्यवस्था विद्यार्थ्यांना ज्ञात होते.
	२. वाक्यविन्यास आणि वाक्यव्यवस्थेचा मराठी भाषेच्या संदर्भात विद्यार्थ्यांना परिचय होतो.
	३. अर्थविन्यास या संकल्पनेचा भाषावैज्ञानिक अंगाने विद्यार्थ्यांना परिचय होतो.
Local self government in Local self government in Maharashtra-I	1. To introduce the evolution of Local Self Government in Maharashtra .
	2.To make students aware about 73rd Constitutional Amendments
	3.To introduce the students aware the structure of Local Self Government.
	4.To make students aware about composition, power and functions of local bodies.
Local Self Government in Maharashtra- II	1.To introduce the evolution of Local Self Government in Maharashtra.
	2. To make students aware about 73rd Constitutional Amendments.
	3 To introduce the students aware the structure of Local Self Government
History of the world in20th century (G- III)	1. Students have understood the relation between Modernity and Nationalism and its implications.
	2. Students have understood the process of colonialism in different part of world.
	3. Students have understood the problems of contemporary world in the light of its background history.
	4. Students have understood the necessity of Universal-Brotherhood



Department of Economics

Programme B.A. Economics

Programme Outcomes, Program Specific Outcomes and Course Outcomes.

After successful completion B. A. Economics Program students will be able to:

Program Outcomes		
PO1	Disciplinary knowledge: Demonstrate comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.	
PO2	Critical thinking: Take informed action after identifying the assumption that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.	
PO3	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.	
PO4	Self-directed and Life-long learning: Acquire knowledge and skills, including 'learning how to learn', that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.	
PO5	Effective Citizenship: Execute their duties and responsibilities as citizens successfully by being a part of larger community.	
PO6	Environment and Sustainability: Become aware about the issues related to environment and the steps needed to be implemented for its sustainability through the study of texts with ecological elements and dimensions.	
Program Specific Outcomes		
PSO1	Explain the basic concepts, laws and theories related to the economic behavior of the human Being	
PSO2	Inculcate the economic way of thinking.	
PSO3	Apply economic analysis in practice.	
Course Outcomes		
Class	Course	Outcomes
FYBA	Compulsory English	1. Students will understand the concept of short story.
		2. Student will develop the ability to comprehend the written texts
		3. Moral and human values will be inculcated amongst the student
		4. Students will be aware of the aesthetic pleasure of literature.
	Optional English	1. Students will Comprehend the written text

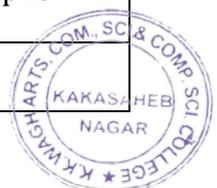
	(General Paper-I)	2. Students' communication skills will be developed
		3. Students will understand the basic concepts of short –story
		4. Students will understand the poetical types



Indian Economic Environment (G-1)	1. Familiarize the students with the recent developments in the Indian Economy and understand the background of the Indian Economy.
	2. Understand and comprehend the current business scenario, agricultural scenario and other sectorial growth in the Indian context.
	3. Develop an understanding of the economic environment and the factors affecting the economic environment.
	4. Compare and contrast the Indian Economy with other world economies.
	5. Discuss and debate the various issues and challenges facing the Indian Economic Environment.
	6. Help the students to prepare for varied competitive examinations.
मराठी साहित्य कथा आणि भाषिक कौशल्य विकास (G1) SEM – I	1. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
	2. सारांश लेखन ही भाषिक, सारग्रहण, संभाषण, लेखन, विद्यार्थ्यांत वाचन कौशल्ये विकसित होण्यास मदत होते.
	3. विद्यार्थ्यांत पाठ्यपुस्तकेतर वाचनाची आवड निर्माण झालेली दिसते.
	4. कथा या साहित्यप्रकाराविषयी रुची निर्माण होण्यास मदत होते.
	5. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
मराठी साहित्य कथा आणि भाषिक कौशल्य विकास (G1) SEM - II	1. अभ्यासक्रमातून विद्यार्थ्यांना नाटक या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते .
	2. एकांकिका या साहित्यप्रकाराविषयी आवड निर्माण होण्यास मदत होते .
	3. विद्यार्थ्यांत संवादलेखनभाषांतर ही भाषा उपयोजनाची रूपे वापराबाबत , घोषवाक्यलेखन , कल्पनाविस्तार, जाणीवजागृतीनिर्माण झालेली दिसते.
Physical Geography Sem. I & Human Geography Sem-II	1. Develop the geographical maturity in their current and future courses.
	2. Develop theoretical, applied and computational skills.
	3. Develop the geographical maturity in their current and future courses.
	4. Develop theoretical, applied and computational skills.
Introduction to Indian constitution SEM-I	1. Know the historical background and nature of Indian constitution
	2. Aware about Fundamental rights duties & Directive Principals
	3. Understand Indian Federal System.
Introduction to Indian constitution SEM-II	1. Know the Indian government and Political system.
	2. Understand Indian Judiciary System.
	3. Become aware about Indian Electoral System
Early India G-I SEM-I & II	1. Student should have the brief introduction of Ancient Indian History.
	2. Students should have information of sources of Ancient Indian History
	3. Students will be able to examine institutional basis of Ancient India.
	4. The history of Early India is a crucial part of Indian history. It is a base for Understanding the entire Indian history
	5. Student understands the history of early India from the prehistoric times to the age of the Maury's and the major developments in early Indian history.
	1. Students will explain to illustrate the development of empire.
	2. Students will be able to explain our heritage through cultural aspects of Ancient India.
	3. Students are must be knowing the achievements of some eminent kings in Ancient India.
	4. Course will be introducing the students to the developments in different parts of India through a brief study of regional kingdoms upto the tenth century C.E.



		5. Students will be able to explain the consequences of the foreign invasions, particularly on the polity, economy, society and art and architecture.
SYBA	Compulsory English	1. Realize beauty of culture
		2. Realize the beauty and the Communicative power of English
		3. Develop interest in reading literary pieces
		4. Acquire overall linguistic competence and communicative skill
		5. Develop overall linguistic competence and communicative skills.
	General English: Study of English Language and Literature (G-II)	1. To understand students to the basics of short story, one of the literary form
		2. Get familiarized with different types of short stories in English
		3. Perceive the literary merit, beauty and creative use of language
		4. Become aware of the technical aspects and their practical usage
		5. To prepare students to go for detail study and understand literature and language
	Appreciating Drama S-I	1. To understand students to the basics of short story, one of the literary form
		2. To understand few sample masterpieces of English Drama from different parts of the world
		3. Acquire ability to appreciate and analyzed Drama independently
		4. To enhance student awareness in aesthetic of Drama and to empower them to evaluate Drama independently
		5. To encourage student to make detail study of sample masterpieces of English Drama
Special Paper- (S- II) Appreciating Poetry	1. To understand the terminology in Poetry criticism (i.e. The term used in critical analysis and appreciation of poem)	
	2. Understand a few sample masterpieces of English Poetry	
	3. Acquire ability to read , appreciate and critically evaluate the Poetry independently	
	4. To enhance students awareness in aesthetic of Poetry	
	5. Develop integrated view about language and literature in them.	
Micro Economics S-1	1. The students will be familiar about the scope of Economics and the employability.	
	2. Through the study of micro Economics the student will gain the knowledge economic concept.	
		3. The students will develop the capacity of the basic theories of micro economics.
		4. The students will increase the analysis of the charts, graphs and figures.
		5. To develop an understanding of basic theories of micro economics and their applications.



	४. ग्रंथ प्ररीचय परीक्षण व समीक्षण यातील फरक समजतात.
Environment Geography G-II	1. Become aware about dynamic environment among the student.
	2. Acquaint with fundamental concepts of environment geography for development in different areas.
	3. Integrate various factors of Environment and dynamic aspect of Environmental geography.
	4. Become aware about the problems of environment, their utilization and conservation in the view of sustainable development
Introduction to political ideologies- I (23164)	1.Role of different political ideologies and their impact in politics.
	2. Close link between an idea and its actual realization in public policy.
	3. Legacy of all the major ideologies.
Introduction to political ideologies- II(24164)	1.Role of different political ideologies and their impact in politics.
	2. Close link between an idea and its actual realization in Public policy.
	3. Legacy of all the major ideologies
History of Maratha (G-II)	1. Student will develop the ability to analyse sources for Maratha History.
	2. Student will learn significance of regional history and political foundation of the region.
	3. It will enhance their perception of 17th century Maharashtra and India in context of Maratha history.
	4. Appreciate the skills of leadership and the administrative system of the Marathas.
	1. Students will be able to analyze the Marathas policy of expansionism and its consequences.
	2. They will understand the role played by the Marathas in the 18th century India.
	3. They will be acquainted with the art of diplomacy in the Deccan region.
	4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy
Compulsory English	1. Introduce them to the best uses of language in literature.
	2. Familiarize with the communicative power of English.
	3. Become competent users of English in real life situations
	4. Expose to varied cultural experiences through literature.
	5. Contribute to their overall personality development by improving their communicative and soft skills
General English(G- III): Enhancing Employability Skills	1.To get the awareness of career opportunities available to them.
	2. To identify the career opportunities suitable to them.
	3. To understand the use of English in different careers.
	4. To develop competence in using English for the career of their choice.
	5. To enhance skills required for their placement.
Special Paper III(S-3):	1. Understand the basics of novel as a literary form



TYBA	Appreciating Novel	2. Get knowledge of the Historical development and nature of Novel 3. Become aware of different types and aspect of Novel 4. Develop literary sensibility and sense of cultural diversity 5. To make them aware of the significance of context in language use
	Special Paper IV(S- 4): Introduction to Literary Criticism	1. Understand the basics of literary criticism
		2. Comprehend the nature and historical Development of literary criticism
		3. Get familiar with significant critical approach and terms
		4. Ability to interpret literary work in the light of the critical approaches.
	General English (G-III): Advanced Study of English Language and Literature	1. Expose to some of the best samples of Indian English Poetry.
		2. Know to see how Indian English poetry expresses the ethos and culture of India.
		3. Understand creative uses of language in Indian English Poetry.
		4. Introduce to some advanced areas of language study.
		5. Prepare to go for detailed study and understanding of literature and Language.
6. Developed integrated view about language and literature among the students.		
Regional Geography of India (G-III)	1. Acquaint with geography of our Nation.	
	2. Become aware of the magnitude of problems and Prospects at National level.	
	3. Understand the inter relationship between the subject and the society.	
	4. Understand the recent trends in regional studies.	
आधुनिक मराठी साहित्य आणि व्यावहारिक व उपयोजित मराठी (G3)	1. अभ्यासक्रमातून विद्यार्थ्यांना निबंध व प्रवासवर्णन या साहित्यप्रकारांचे स्वरूप आकलन झालेले दिसते.	
	2. प्रवासवर्णन साहित्यप्रकारची वाटचाल समजते.	
	3.. मराठी ग्रंथ परीक्षण करण्याचे कौशल्य विकसित करण्यास मदत होते .	
	4. प्रवासवर्णन अभ्यासातून सूक्ष्म निरीक्षणशक्तीचा विकास होतो.	
मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० (S-3) Sem-V	1. वाङ्मय इतिहासाची संकल्पना, स्वरूप प्रेरणा आणि प्रवृत्ती विद्यार्थ्यांना ज्ञात होते.	
	2. विद्यार्थ्यांना मध्ययुगीन कालखंडाची सामाजिक, सांस्कृतिक पार्श्वभूमी समजते.	
	3. मराठी भाषा आणि साहित्याचा कालखंडानुरूप इतिहास विद्यार्थ्यांना ज्ञात होतो.	
मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० ते इ. स. १८५७ (S-3) Sem-VI	1. अभ्यासक्रमातून विद्यार्थ्यांना शिवकाळ आणि पेशवे काळातील वाङ्मय निर्मितीची माहिती होते.	
	2. पंडीत आणि शाहिरांच्या वाङ्मय निर्मितीची माहिती विद्यार्थ्यांना मिळते.	
	3. बखर आणि गद्य वाङ्मय निर्मितीविषयी विद्यार्थ्यांना जाणतात.	
वर्णनात्मक भाषाविज्ञान: भाग१ (S4-) Sem-V	1. भाषेचे स्वरूप, वैशिष्ट्ये आणि कार्ये विद्यार्थी समजून घेतात.	
	2. भाषा अभ्यासाची आवश्यकता विद्यार्थ्यांना ज्ञात होते.	
	3. विद्यार्थ्यांना भाषा अभ्यासाच्या शाखा आणि विविध पद्धतींचा परिचय होतो.	
	4. स्वनविज्ञान, स्वनिमविचार आणि मराठीची स्वनिमव्यवस्था विद्यार्थी समजून घेतात	
वर्णनात्मक भाषाविज्ञान: भाग-२ (S4-) Sem-VI	1. रुपविन्यास आणि मराठीची रूपव्यवस्था विद्यार्थ्यांना ज्ञात होते.	
	2. वाक्यविन्यास आणि वाक्यव्यवस्थेचा मराठी भाषेच्या संदर्भात विद्यार्थ्यांना परिचय होतो.	



	3. अर्थविन्यास या संकल्पनेचा भाषावैज्ञानिक अंगाने विद्यार्थ्यांना परिचय होतो.
Local Self Government in Maharashtra (G-III)	1. Know the historical background of Indian Local Self Government.
	2. Know the importance of democratic decentralization.
	3. Become aware about development of Local Self Government.in Maharashtra.
	4. Understand the nature and role of Local Self Governments in Maharashtra
	5. Become a politician in Local Self Governments.
History of the world in 20th century (G-III)	1. Students have understood the relation between Modernity and Nationalism and its implications.
	2. Students have understood the process of colonialism in different part of world.
	3. Students have understood the problems of contemporary world in the light of its background history.
	4. Students have understood the necessity of Universal-Brotherhood
Economic Development & Planning G-III	1. The students will be familiar with the concept of economicdevelopment & growth
	2. The students will be the theories & approaches to economic development.
	3. The students will be exposed to the indicators of economic growth & development
International Economics S-III	4. The students will enable to understand the concept of developed &developing countries
	1.Familiarize with the student with the basic principles of the free flow of trade at the global level.
	2. Know the impact of free trade and tariffs on the different sectors Of the economy.
	3. Expose to rationale of recent changes in the export import polices of India.
Public Finance S-IV	4. Understand the concept of globalization and liberalization
	1.Familiarize with the student with the basic principles of the free flow of trade at the global level.
	2.To make students to analyze the role of Public Finance in Economic Development
	3.To know the sources of Revenue, Expenditure and Debt of Govt. of India.
	4.To make students competent to become success in competitive examination.
	5.To make students able to analyze Budget process of India.



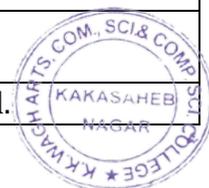
Department of Marathi

Programme: B. A. Marathi

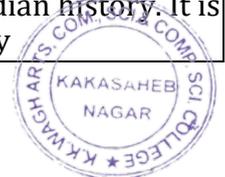
Programme Outcomes, Program Specific Outcomes and Course Outcomes.

After successful completion B. A. Marathi Programme students will be able to:

Programme Outcomes		
P01	Disciplinary knowledge: Demonstrate comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.	
P02	Critical thinking: Take informed action after identifying the assumption that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.	
P03	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.	
P04	Self-directed and Life-long learning: Acquire knowledge and skills, including 'learning howto learn', that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.	
P05	Effective Citizenship: Execute their duties and responsibilities as citizens successfully by being a part of larger community.	
P06	Environment and Sustainability: Become aware about the issues related to environment and the steps needed to be implemented for its sustainability through the study of texts withecological elements and dimensions.	
Program Specific Outcomes		
PSO1	Literature can be analyzed.	
PSO2	Marathi literature can be analyzed, interpreted and criticized.	
Course Outcomes		
Class	Course	Outcomes
FYBA	Compulsory English	1. Students will understands the concept of the short story.
		2. Students will develop the ability to comprehend the written texts.
		3. Moral and human values will be included amongst the students.
		4. Students will be aware of the aesthetic pleasure of literature.
	Optional English (General Paper-I)	1. Students will comprehend the written text.
		2. Students communication skills will be developed.



		3. Students will understand the basic concept of short story.
		4. Introduce to the basics of phonology of English so that they can pronounce better and speak English correctly.
		5. Students will understand the poetical types.
	Indian Economic Environment -G-1	1. Familiarize the students with the recent developments in the Indian Economy and understand the background of the Indian Economy.
		2. Understand and comprehend the current business scenario, agricultural scenario and other sectorial growth in the Indian context.
		3. Develop an understanding of the economic environment and the factors affecting the economic environment.
		4. Compare and contrast the Indian Economy with other world economies.
		5. Discuss and debate the various issues and challenges facing the Indian Economic Environment.
		6. Help the students to prepare for varied competitive examinations.
मराठी साहित्य कथा आणि भाषिक कौशल्य विकास (G1) SEM - I		1. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
		2. सारांश लेखन ही भाषिक, सारग्रहण, संभाषण, लेखन, विद्यार्थ्यांत वाचन, कौशल्ये विकसित होण्यास मदत होते.
		3. विद्यार्थ्यांत पाठ्यपुस्तकेतर वाचनाची आवड निर्माण झालेली दिसते.
		4. कथा या साहित्यप्रकाराविषयी रुची निर्माण होण्यास मदत होते.
		5. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
मराठी साहित्य एकांकिका आणि भाषिक कौशल्य विकास (G1) SEM - II		1. अभ्यासक्रमातून विद्यार्थ्यांना नाटक या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते.
		2. एकांकिका या साहित्यप्रकाराविषयी आवड निर्माण होण्यास मदत होते.
		3. विद्यार्थ्यांत संवादलेखनभाषांतर ही भाषा उपयोजनाची रूपे वापराबाबत, घोषवाक्यलेखन, कल्पनाविस्तार, जाणीवजागृतीनिर्माण झालेली दिसते.
Physical Geography Sem. I & Human Geography Sem-II		1. Develop the geographical maturity in their current and future courses.
		2. Develop theoretical, applied and computational skills.
		3. Develop the geographical maturity in their current and future courses.
		4. Develop theoretical, applied and computational skills.
Introduction to Indian constitution SEM-I		1. Know the historical background and nature of Indian constitution
		2. Aware about Fundamental rights duties & Directive Principles
		3. Understand Indian Federal System.
Introduction to Indian constitution SEM-II		1. Know the Indian government and Political system.
		2. Understand Indian Judiciary System.
		3. Become aware about Indian Electoral System
		1. Student should have the brief introduction of Ancient Indian History.
		2. Students should have information of sources of Ancient Indian History
		3. Students will be able to examine institutional basis of Ancient India.
		4. The history of Early India is a crucial part of Indian history. It is a base for Understanding the entire Indian history



	Early India G-I SEM-I & II	<p>5. Student understands the history of early India from the prehistoric times to the age of the Maury's and the major developments in early Indian history.</p> <p>1. Students will explain to illustrate the development of empire.</p> <p>2. Students will be able to explain our heritage through cultural aspects of Ancient India.</p> <p>3. Students are must be knowing the achievements of some eminent kings in Ancient India.</p> <p>4. Course will be introducing the students to the developments in different parts of India through a brief study of regional kingdoms up to the tenth century C.E.</p> <p>5. Students will be able to explain the consequences of the foreign invasions, particularly on the polity, economy, society and art and architecture.</p>
SYBA	Compulsory English	1. Realize beauty of culture
		2. Realize the beauty and the communicative power of English
		3. Develop their interest in reading literary pieces.
		4. Acquire overall linguistic competence and communicative skill.
		5. Develop overall linguistic competence and communicative skills.
	General English: Study of English Language and Literature (G-II)	1. To understand students to the basics of short story, one of the literary form.
		2. Familiarize them with different types of short stories in English.
		3. Perceive the literary merit, beauty and creative use of language.
		4. Become aware of the technical aspects and their practical usage.
		5. Prepare to go for detailed study and understanding of literature and language.
6. Develop integrated view about language and literature in them.		
Appreciating Drama S-I	1. Term used in critical analysis and appreciation of drama.	
	2. To understand few sample masterpiece of English drama from different parts of the world.	
	3. Acquire ability to appreciate and analyzed drama independently.	
	4. To enhanced students awareness in aesthetic of drama and to empower them to evaluate drama independently.	
	5. To encourage student to make details study of sample masterpiece of English drama.	
Special Paper- (S- II) Appreciating Poetry	1) To understand the terminology in Poetry criticism (i.e. The term used in critical analysis and appreciation of poem)	
	2) Understand a few sample masterpieces of English Poetry	
	3) Acquire ability to read , appreciate and critically evaluate the Poetry independently	
	4) To enhance students awareness in aesthetic of Poetry	
Indian Financial System G-II	1. To understand fundamentals of modern financial system.	
	2. To understand the recent trends and developments in banking system.	
	3. To understand the recent trends in Financial Market & Financial Institutions	
	1. To understand the role of the Reserve Bank of India in Indian financial system.	



	2. To enhance the students the knowledge of various financial and non-financial institutions.
	3. To enhance the students the intricacies of Indian financial system for better financial decision making.
Micro Economic Sem. I & II S-I	1. The students will be gaining the knowledge about the role of money in the economy.
	2. The students will increase the knowledge of the conceptual and theoretical frameworks of inflation, deflation and stagflation, Business Cycle.
	3. The students will be familiar the role of monetary and fiscal policies, full employment and growth.
	4. Help the students to prepare for varied competitive examination.
	1. The students will be familiar the choice base credit system
	2. The students will be enhancing about difference between microeconomics and macroeconomics.
	3. The students will gain the knowledge of the various concept of national income as well as theoretical framework of consumption and investment functions.
Macro Economics Sem. I & II S- II	1. The students will be gaining the knowledge about the role of money in the economy.
	2. The students will increase the knowledge of the conceptual and theoretical frameworks of inflation, deflation and stagflation, Business Cycle.
	3. The students will be familiar the role of monetary and fiscal policies, full employment and growth.
भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार कादंबरी (G2) (Sem – III)	१. अभ्यासक्रमातून विद्यार्थ्यांना कादंबरी या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते .
	2. कादंबरी साहित्यप्रकारची वाटचाल समजते .
	३.. संगणक व मोबाईलवर मराठी मुद्रण करण्याचे कौशल्य विकसित करण्यास मदत होते .
	४. कादंबरी अभ्यासातून सैन्य व हिमालयातील आव्हानांचा परिचय होतो .
भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार ललितगद्य -(G2) (Sem – IV)	१. अभ्यासक्रमातून विद्यार्थ्यांना ललितगद्य या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते.
	2. ललितगद्य साहित्यप्रकारची वाटचाल समजते.
	३.. गुगल फॉर्म , गुगल क्लासरूम व युट्यूब या साधनांच्या वापराबाबत जाणीवजागृती निर्माण झालेली दिसते ,
साहित्य विचार - III (S2)	१. अभ्यास क्रमातून विद्यार्थ्यांना भारतीय आणि पांच्यात्य साहित्य विचाराच्या आधारे साहित्याची संकल्पना आणि प्रयोजन विचार समजतात.
	२. साहित्याची निर्मिती प्रकीया समजते.
	३. साहित्याची भाषा आणि शैलीविषयक विचार समजते.
साहित्य समीक्षा - IV (S2)	१. साहित्याची संकल्पना, स्वरूप यांचा परिचय होते.
	२. साहित्य आणि समीक्षा यांचे परस्पर संबंध समजतात.
	३. साहित्य प्रकारानुसार समीक्षेचे स्वरूप समजून घेतात.
	४. ग्रंथ प्ररीचय परीक्षण व समीक्षण यातील फरक समजतात.
	1. Become aware about dynamic environment among the student.



Environment Geography G-II	<p>2. Acquaint with fundamental concepts of environment geography for development in different areas.</p> <p>3. Integrate various factors of Environment and dynamic aspect of Environmental geography.</p> <p>4. Become aware about the problems of environment, their utilization and conservation in the view of sustainable development</p>
Introduction to political ideologies- I (23164)	<p>1. Role of different political ideologies and their impact in politics.</p> <p>2. Close link between an idea and its actual realization in public policy.</p> <p>3. Legacy of all the major ideologies.</p>
Introduction to political ideologies- II (23164)	<p>1. Role of different political ideologies and their impact in politics</p> <p>2. Close link between an idea and its actual realization in public policy.</p> <p>3. Legacy of all the major ideologies</p>
History of Maratha(G-II)	<p>1. Student will develop the ability to analyse sources for Maratha History.</p> <p>2. Student will learn significance of regional history and political foundation of the region.</p> <p>3. It will enhance their perception of 17th century Maharashtra and India in context of Maratha history.</p> <p>4. Appreciate the skills of leadership and the administrative system of the Marathas.</p> <p>1. Students will be able to analyze the Marathas policy of expansionism and its consequences.</p> <p>2. They will understand the role played by the Marathas in the 18th century India.</p> <p>3. They will be acquainted with the art of diplomacy in the Deccan region.</p> <p>4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy</p>
Compulsory English	<p>1. Introduce them to the best uses of language in literature.</p> <p>2. Familiarize with the communicative power of English.</p> <p>3. Become competent users of English in real life situations</p> <p>4. Expose to varied cultural experiences through literature.</p> <p>5. Contribute to their overall personality development by improving their communicative and soft skills</p>
General English(G- III): Enhancing Employability Skills	<p>1. To get the awareness of career opportunities available to them.</p> <p>2. To identify the career opportunities suitable to them.</p> <p>3. To understand the use of English in different careers.</p> <p>4. To develop competence in using English for the career of their choice.</p> <p>5. To enhance skills required for their placement.</p>



मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० (S-3) Sem-V	<ol style="list-style-type: none"> 1. वाङ्मय इतिहासाची संकल्पना, स्वरूप प्रेरणा आणि प्रवृत्ती विद्यार्थ्यांना ज्ञात होते. 2. विद्यार्थ्यांना मध्ययुगीन कालखंडाची सामाजिक, सांस्कृतिक पार्श्वभूमी समजते. 3. मराठी भाषा आणि साहित्याचा कालखंडानुरूप इतिहास विद्यार्थ्यांना ज्ञात होतो.
मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० ते इ. स. १८५७ (S-3) Sem-VI	<ol style="list-style-type: none"> 1. अभ्यासक्रमातून विद्यार्थ्यांना शिवकाळ आणि पेशवे काळातील वाङ्मय निर्मितीची माहिती होते. 2. पंडीत आणि शाहिरांच्या वाङ्मय निर्मितीची माहिती विद्यार्थ्यांना मिळते. 3. बखर आणि गद्य वाङ्मय निर्मितीविषयी विद्यार्थ्यांना जाणतात.
वर्णनात्मक भाषाविज्ञान: भाग-१ (S4-) Sem-V	<ol style="list-style-type: none"> 1. भाषेचं स्वरूप, वैशिष्ट्ये आणि कार्ये विद्यार्थी समजून घेतात. 2. भाषा अभ्यासाची आवश्यकता विद्यार्थ्यांना ज्ञात होते. 3. विद्यार्थ्यांना भाषा अभ्यासाच्या शाखा आणि विविध पद्धतीचा परिचय होतो. 4. स्वनविज्ञान, स्वनिमविचार आणि मराठीची स्वनिमव्यवस्था विद्यार्थी समजून घेतात
वर्णनात्मक भाषाविज्ञान: भाग-२ (S4-) Sem-VI	<ol style="list-style-type: none"> 1. रूपविन्यास आणि मराठीची रूपव्यवस्था विद्यार्थ्यांना ज्ञात होते. 2. वाक्यविन्यास आणि वाक्यव्यवस्थेचा मराठी भाषेच्या संदर्भात विद्यार्थ्यांना परिचय होतो. 3. अर्थविन्यास या संकल्पनेचा भाषावैज्ञानिक अंगाने विद्यार्थ्यांना परिचय होतो.
Regional Geography of India (G-III)	<ol style="list-style-type: none"> 1. Acquaint with geography of our Nation. 2. Become aware of the magnitude of problems and Prospects at National level. 3. Understand the inter relationship between the subject and the society. 4. Understand the recent trends in regional studies.
Local self-government in Maharashtra-I (35164)	<ol style="list-style-type: none"> 1. To introduce the evolution of Local Self Government in Maharashtra 2. To make students aware about 73rd Constitutional Amendments. 3. To introduce the students aware the structure of Local Self Government. 4. To make students aware about composition, power and functions of local bodies
Local self-government in Maharashtra- II(36164)	<ol style="list-style-type: none"> 1. To introduce the evolution of Local Self Government in Maharashtra. 2. To make students aware about 73rd Constitutional Amendments. . 3. To introduce the students aware the structure of Local Self Government 4. To make students aware about composition, power and functions of local bodies.
History of the world in 20th century (G-III)	<ol style="list-style-type: none"> 1. Students have understood the relation between Modernity and Nationalism and its implications. 2. Students have understood the process of colonialism in different part of world. 3. Students have understood the problems of contemporary world in the light of its background history. 4. Students have understood the necessity of Universal-Brotherhood



Department of Geography

Programme B.A. Geography

Program Outcomes, Programme Specific Outcomes and Course Outcomes.

After successful completion B. A. Geography Program students will be able to:

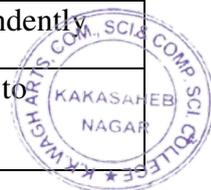
Programme Outcomes		
PO1	Disciplinary knowledge: Demonstrate comprehensive knowledge and understanding of one or more disciplines that form a part of an undergraduate programme of study.	
PO2	Critical thinking: Take informed action after identifying the assumption that frame our thinking and actions, checking out the degree to which these assumptions are accurate and valid, and looking at our ideas and decisions (intellectual, organizational and personal) from different perspectives.	
PO3	Ethics: Recognize different value systems including your own, understand the moral dimensions of your decisions, and accept responsibility for them.	
PO4	Self-directed and Life-long learning: Acquire knowledge and skills, including 'learning how to learn', that are necessary for participating in learning activities throughout life, through self-paced and self-directed learning aimed at personal development, meeting economic, social and cultural objectives, and adapting to changing trades and demands of work place through knowledge/skill development/reskilling.	
PO5	Effective Citizenship: Execute their duties and responsibilities as citizens successfully by being a part of larger community.	
PO6	Environment and Sustainability: Become aware about the issues related to environment and the steps needed to be implemented for its sustainability through the study of texts with ecological elements and dimensions.	
Program Specific Outcomes		
PSO1	Demonstrate and understanding of principles and theories of Geography. This include Geomorphology, Economic Geography, Human Geography, Agriculture Geography, Climatology, Population Geography, Disaster management.	
PSO2	Apply Statistical Techniques of Spatial Analysis.	
PSO3	Demonstrate ability to apply knowledge learned in classroom to set and perform simple laboratory experiments in Geography.	
Course Outcomes		
Class	Course	Outcomes
FYBA	Compulsory English	1. Students will understand the concept of short story.
		2. Student will develop the ability to comprehend the written texts
		3. Moral and human values will be inculcated amongst the student
		4. Students will be aware of the aesthetic pleasure of literature.



	and communicative skills.
	5. Students speaking and writing of English ability will be developed.
	6. Student will be aware of the importance of the communicative Competence.
Optional English (General Paper-I)	1. Students will Comprehend the written text
	2. Students' communication skills will be developed
	3. Students will understand the basic concepts of short –story
	4. Students will understand the poetical types
Indian Economic Environment -G-1	1. Familiarize the students with the recent developments in the Indian Economy and understand the background of the Indian Economy.
	2. Understand and comprehend the current business scenario, agricultural scenario and other sectorial growth in the Indian context.
	3. Develop an understanding of the economic environment and the factors affecting the economic environment.
	4. Compare and contrast the Indian Economy with other world economies.
	5. Discuss and debate the various issues and challenges facing the Indian Economic Environment.
	6. Help the students to prepare for varied competitive examinations.
मराठी साहित्य कथा आणि भाषिक कौशल्य विकास (G1)	1. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
SEM - I	2. सारांश लेखन ही भाषिक, सारग्रहण, संभाषण, लेखन, विद्यार्थ्यांत वाचन, कौशल्ये विकसित होण्यास मदत होते.
	3. विद्यार्थ्यांत पाठ्यपुस्तकेतर वाचनाची आवड निर्माण झालेली दिसते.
	4. कथा या साहित्यप्रकाराविषयी रुची निर्माण होण्यास मदत होते.
	5. अभ्यासक्रमातून विद्यार्थ्यांची भाषिक क्षमता समृद्ध होते.
मराठी साहित्य एकांकिका आणि भाषिक कौशल्य विकास (G1)	1. अभ्यासक्रमातून विद्यार्थ्यांना नाटक या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते.
SEM - II	2. एकांकिका या साहित्यप्रकाराविषयी आवड निर्माण होण्यास मदत होते.
	3. विद्यार्थ्यांत संवादलेखनभाषांतर ही भाषा उपयोजनाची रूपे वापराबाबत, घोषवाक्यलेखन, कल्पनाविस्तार, जाणीवजागृतीनिर्माण झालेली दिसते.
Physical Geography Sem. I & Human Geography Sem. -II	1. To introduce the students to the basic in physical Geography
	2. To develop the basic concept about the Earth and Human Activities.
	3. Know the principals in human Geography.
	4. Become aware about the various concepts in Human Geography.
	5. Aware about the recent trends in Human Geography.
	6. To introduce about application of Physical Geography, Environment Geography in human activity.
Introduction to Indian constitution SEM-I	1. Know the historical background and nature of Indian constitution
	2. Aware about Fundamental rights duties & Directive Principals
	3. Understand Indian Federal System.
Introduction to Indian constitution	1. Know the Indian government and Political system.
	2. Understand Indian Judiciary System.



Early India G-I SEM-I & II	1. Student should have the brief introduction of Ancient Indian History.	
	2. Students should have information of sources of Ancient Indian History	
	3. Students will be able to examine institutional basis of Ancient India.	
	4. The history of Early India is a crucial part of Indian history. It is a base for Understanding the entire Indian history	
	5. Student understands the history of early India from the prehistoric times to the age of the Maury's and the major developments in early Indian history.	
	1. Students will explain to illustrate the development of empire.	
	2. Students will be able to explain our heritage through cultural aspects of Ancient India.	
	3. Students are must be knowing the achievements of some eminent kings in Ancient India.	
	4. Course will be introducing the students to the developments in different parts of India through a brief study of regional kingdoms up to the tenth century C.E.	
	5. Students will be able to explain the consequences of the foreigninvasions, particularly on the polity, economy, society and art and architecture.	
SYBA	Compulsory English	1. Realize beauty of culture
		2. Realize the beauty and the Communicative power of English
		3. Develop interest in reading literary pieces
		4. Acquire overall linguistic competence and communicative skill
		5. To expose them to native cultural experiences and situation in order to develop human values and social awareness
	General English: Study of English Language and Literature (G-II)	1. To understand students to the basics of short story, one of the literary form
		2. Get familiarized with different types of short stories in English
		3. Perceive the literary merit, beauty and creative use of language
		4. Become aware of the technical aspects and their practical usage
		5. To prepare students to go for detail study and understand literature and language
	Appreciating Drama S-I	1. Get acquainted with the terminology in Drama Criticism (i.e. The term used in critical analysis and appreciation of Drama
		2. To understand few sample masterpieces of English Drama from different parts of the world
		3. Acquire ability to appreciate and analyze Drama independently
		4. To enhance student awareness in aesthetic of Drama and to empower them to evaluate Drama independently



	1. The students will be gaining the knowledge about the role of money in the economy.
भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार कादंबरी (G2) (Sem – III)	1. अभ्यासक्रमातून विद्यार्थ्यांना कादंबरी या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते. 2. कादंबरी साहित्यप्रकारची वाटचाल समजते. 3.. संगणक व मोबाईलवर मराठी मुद्रण करण्याचे कौशल्य विकसित करण्यास मदत होते . 4. कादंबरी अभ्यासातून सैन्य व हिमालयातील आव्हानांचा परिचय होतो.
भाषिक कौशल्य विकास आणि आधुनिक मराठी साहित्य प्रकार ललितगद्य -(G2) (Sem – IV)	1. अभ्यासक्रमातून विद्यार्थ्यांना ललितगद्य या साहित्यप्रकाराचे स्वरूप आकलन झालेले दिसते. 2. ललितगद्य साहित्यप्रकारची वाटचाल समजते. 3.. गुगल फॉर्म ,गुगल क्लासरूम व युट्युब या साधनांच्या वापराबाबत जाणीवजागृती निर्माण झालेली दिसते ,
साहित्य विचार - III (S2)	१. अभ्यास क्रमातून विद्यार्थ्यांना भारतीय आणि पाश्चात्य साहित्य विचाराच्या आधारे साहित्याची संकल्पना आणि प्रयोजन विचार समजतात. २. साहित्याची निर्मिती प्रकीया समजते. ३. साहित्याची भाषा आणि शैलीविषयक विचार समजते.
साहित्य समीक्षा - IV (S2)	१. साहित्याची संकल्पना, स्वरूप यांचा परिचय होते. २. साहित्य आणि समीक्षा यांचे परस्पर संबंध समजतात. ३. साहित्य प्रकारानुसार समीक्षेचे स्वरूप समजून घेतात. ४. ग्रंथ प्रीचय परीक्षण व समीक्षण यातील फरक समजतात.
Environment Geography (G-II)	1. Become aware about dynamic environment among the student. 2. Acquaint with fundamental concepts of Environment Geography for development in different areas. 3. Integrate various factors of Environment and dynamic aspect of Environmental Geography 4. Become aware about the problems of environment, them utilization and conservation in the view of sustainable development
Geography of Maharashtra S-I	1. Study the different elements of physical geography of Maharashtra. 2. Identify key about historical, Political background of Maharashtra. 3. Understand the inter relationship between the subject and the society. 4. To describe the administrative divisions in details. 5. Become aware about the agriculture problems and prospects of Maharashtra. 6. Details in Maharashtra's agricultural land, different crops, industrial area and their importance, population, settlements, Tourism and urbanization 7. Describe the administrative divisions in details as well drainage system, climatic regions, drought prone regions, flood areas etc.
Practical GeographyS-II	1. Develop practical skill and use of map scale and projection. 2. Become aware about the new techniques, accuracy and skills of map making. 3. Introduce to the basic and contemporary concepts in Cartography. 4. Acquaint with the utility and applications of various Cartographic Techniques.
	1. Role of different political ideologies and their impact in Politics 2. Close link between an idea and its actual realization in



	Introduction to political ideologies- I (23164)	public policy. 3. Legacy of all the major ideologies.
	Introduction to political ideologies- II(24164)	1.Role of different political ideologies and their impact in politics. 2. Close link between an idea and its actual realization in public policy. 3. Legacy of all the major ideologies
	History of Maratha (G-II)	1. Student will develop the ability to analyses sources for Maratha History. 2. Student will learn significance of regional history and political foundation of the region. 3. It will enhance their perception of 17th century Maharashtra and India in context of Maratha history. 4. Appreciate the skills of leadership and the administrative system of the Marathas. 1. Students will be able to analyze the Marathas policy of expansionism and its consequences. 2. They will understand the role played by the Marathas in the 18th century India. 3. They will be acquainted with the art of diplomacy in the Deccan region. 4. It will help to enrich the knowledge of the administrative skills and profundity of diplomacy
TYBA	Compulsory English	1. Get introduce the best uses of language in Literature
		2. Get familiarized with the communicative power of English
		3. Became competent users of English in real life situations
		4. Develop overall personality by improving their communication skill
		5. To develop competence among the students for self-learning
	General English(G- III): Enhancing Employability Skills	1.To get the awareness of career opportunities available to them.
		2. To identify the career opportunities suitable to them.
		3. To understand the use of English in different careers.
		4. To develop competence in using English for the career of their choice.
		5. To enhance skills required for their placement.
		6. To use English effectively in the career of their choice.
	Special Paper III(S-3): Appreciating Novel	1. Understand the basics of novel as a literary form
		2. Get knowledge of the Historical development and nature of Novel
		3. Become aware of different types and aspect of Novel
		4. Develop literary sensibility and sense of cultural diversity
5. To make them aware of the significance of context in language use		
	1. Understand the basics of literary criticism	



Special Paper IV(S- 4): Introduction to Literary Criticism	2. Comprehend the nature and historical Development of literary criticism
	3. Get familiar with significant critical approach and terms
	4. Ability to interpret literary work in the light of the critical approaches.
Economic Development & Planning (G-III)	1. The students will be familiar with the concept of economic development & growth.
	2. The students will be the theories & approaches to economic development.
	3. The students will be exposed to the indicators of economic growth & development
	4. The students will enable to understand the concept of developed & developing countries
International Economics S - III	1. Familiarize with the student with the basic principles of the free flow of trade at the global level.
	2. Know the impact of free trade and tariffs on the different sectors Of the economy.
	3. Expose to rationale of recent changes in the export import polices of India.
	4. Understand the concept of globalization and liberalization
Public Finance S- IV	1. To make students to analyze the role of Public Finance in Economic Development
	2. To know the sources of Revenue, Expenditure and Debt of Govt. of India.
	3. To make students competent to become success in competitive examination.
	4. To make students able to analyze Budget process of India.
	5. To make the students aware about Role and working of Finance Commission
Tourism Geography (G III)	1. Acquaint with geography of our Nation and states tourist places.
	2. Become aware of the magnitude of problems and Prospects at Tourism sector.
	3. Understand the inter relationship between the subject and the society.
	4. Understand the recent trends in Tourism Geography.
Geography of India (S-3)	1. Gain knowledge of the nation.
	2. Acquire an understanding and relationship of between physiography and drainage, climate, soil, vegetation.
	3. Elaborate relationship with India and its neighboring countries.
	4. Aware about the resources and its conservations.
Techniques of Spatial Analysis (S-4)	1. Familiarize with SOI Toposheets and to acquire the Knowledge of Toposheet Reading/Interpretation.
	2. Familiarize with the weather instruments and their applications in Geographical phenomena.
	3. Acquaint with IMD weather maps and to gain the knowledge of weather map Reading / interpretation.
	4. Trained in elementary statistics as an essential part of geography.
	5. Become aware about GIS among the students
आधुनिक मराठी साहित्य आणि व्यावहारिक व उपयोजित मराठी (G3)	1. अभ्यासक्रमातून विद्यार्थ्यांना निबंध व प्रवासवर्णन या साहित्यप्रकारांचे स्वरूप आकलन झालेले दिसते.
	2. प्रवासवर्णन साहित्यप्रकारची वाटचाल समजते.
	3. मराठी ग्रंथ परीक्षण करण्याचे कौशल्य विकसित करण्यास मदत होते .



	4. प्रवासवर्णन अभ्यासातून सूक्ष्म निरीक्षणशक्तीचा विकास होतो.
मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० (S-3) Sem-V	1. वाङ्मय इतिहासाची संकल्पना, स्वरूप प्रेरणा आणि प्रवृत्ती विद्यार्थ्यांना ज्ञात होते. 2. विद्यार्थ्यांना मध्ययुगीन कालखंडाची सामाजिक, सांस्कृतिक पार्श्वभूमी समजते. 3. मराठी भाषा आणि साहित्याचा कालखंडानुरूप इतिहास विद्यार्थ्यांना ज्ञात होतो.
मध्ययुगीन मराठी वाङ्मयाचा स्थूल इतिहास: प्रारंभ ते इ. स. १६०० ते इ. स. १८५७ (S-3) Sem-VI	1. अभ्यासक्रमातून विद्यार्थ्यांना शिवकाळ आणि पेशवे काळातील वाङ्मय निर्मितीची माहिती होते. 2. पंडीत आणि शाहिरांच्या वाङ्मय निर्मितीची माहिती विद्यार्थ्यांना मिळते. 3. बखर आणि गद्य वाङ्मय निर्मितीविषयी विद्यार्थ्यांना जाणतात.
वर्णनात्मक भाषाविज्ञान: भाग-१ (S4-1) Sem-V	1. भाषेचं स्वरूप, वैशिष्ट्ये आणि कार्ये विद्यार्थी समजून घेतात. 2. भाषा अभ्यासाची आवश्यकता विद्यार्थ्यांना ज्ञात होते. 3. विद्यार्थ्यांना भाषा अभ्यासाच्या शाखा आणि विविध पद्धतींचा परिचय होतो. 4. स्वनविज्ञान, स्वनिमविचार आणि मराठीची स्वनिमव्यवस्था विद्यार्थी समजून घेतात
वर्णनात्मक भाषाविज्ञान: भाग-२ (S4-2) Sem-VI	1. रूपविन्यास आणि मराठीची रूपव्यवस्था विद्यार्थ्यांना ज्ञात होते. 2. वाक्यविन्यास आणि वाक्यव्यवस्थेचा मराठी भाषेच्या संदर्भात विद्यार्थ्यांना परिचय होतो. 3. अर्थविन्यास या संकल्पनेचा भाषावैज्ञानिक अंगाने विद्यार्थ्यांना परिचय होतो.
Local self-government in Maharashtra-I (35164)	1. Know the historical background of Indian Local Self Government. 2. Know the importance of democratic decentralization. 3. Become aware about development of Local Self Government.in Maharashtra. 4. Understand the nature and role of Local Self Governments in Maharashtra 5. Become a politician in Local Self Governments.
Local self-government in Maharashtra-II(36164)	1.To introduce the evolution of Local Self Government in Maharashtra 2.To make students aware about 73rd Constitutional Amendments 3.To introduce the students aware the structure of Local Self Government. 4.To make students aware about composition, power and functions of local bodies.
History of the world in 20th century (G-III)	1. Students have understood the relation between Modernity and Nationalism and its implications. 2. Students have understood the process of colonialism in different part of world. 3. Students have understood the problems of contemporary world in the light of its background history. 4. Students have understood the necessity of Universal-Brotherhood



Bachelor of Commerce

Programmed Outcomes, Programmed Specific Outcomes & Course Outcomes (PO, PSO, CO)

Programmed	Programmed Outcomes
Bachelor of Commerce	<ol style="list-style-type: none"> 1) To gain in depth knowledge, understanding and skills in Commerce and apply these skills for real life problem solving 2) To inculcate reading, writing, speaking skills and develop business correspondence and also administrative abilities 3) To create awareness among-st society about Law and Legislation related to commerce and business and also develop leadership skills. 4) To use new technologies effectively to communicate ideas in the area of commerce & E-commerce & about Economic Environment of Country as well as World 5) To plan and develop the start-ups and entrepreneurial ventures independently through skills developed and work collaboratively and productive lying groups. 6) To pursue higher education and advance research in the field of commerce, business and finance with the clear understanding of basic concepts required for the same and critically evaluate new research findings, ideas, methodologies.

Programmed	Programmed Specific Outcomes
Bachelor of Commerce	<ol style="list-style-type: none"> 1) Students will be able to apply basic skills learn in commerce necessary for analysis of various problems in accounting, marketing, business economics, management and finance. 2) Students will demonstrate progressive effective domain development of moral, social and ethical values in business and society.



Course Outcome**Commerce-B.com****F.Y.B.COM CBCS
SEM I**

Subject Code	Subject Name	Outcome
111	Compulsory English-I	<ol style="list-style-type: none"> 1. To offer relevant and practically helpful pieces of prose and poetry to students so that they not only get to know the beauty and communicative power of English but also its practical application. 2. To expose students to a variety of topics that dominate the contemporary socialist economic and cultural life 3. To develop oral and written communication skills of the students so that their employ-ability enhances. 4. To develop overall linguistic competence and communicative skills.
112	Financial Accounting - I	<ol style="list-style-type: none"> 1. To understand various accounting Concepts, Conventions and Principles, emerging trends in accounting and its effect on accounting Practices. 2. To understand process of dissolution of partnership firm. 3. To understand the process of conversion of single entry into double entry system. 4. To get knowledge about GST.
113	Business Economics-I	<ol style="list-style-type: none"> 1. To make the students aware of concepts in micro economics and difference between micro and macroeconomics. 2. To impart knowledge of cardinal and ordinal approach and concept of consumer surplus. 3. To impart knowledge of law of supply and the determinant so flow of supply 4. To help the students understand the relation between revenue concepts.
114 (B)	Computer Concepts and Application- I	<ol style="list-style-type: none"> 1. Understand the basics of software and hardware. 2. Acquire knowledge of office automation tools like Application software I.e.MS-Office. 3. Understand the knowledge of Computer Network its application. 4. Understand the Computer Applications in various fields of Commerce and Use of E-Commerce.
115-B	Banking and finance	<ol style="list-style-type: none"> 1. To understand knowledge of evolution of banking & structure of Indian Banking 2. To understand the primary and secondary functions of a bank 3. To know the process of opening and operating procedure of bank accounts.

		4. To understand various methods of remittance.
116-C	Marketing-I	<ol style="list-style-type: none"> 1. To introduce the basic concepts in Marketing. 2. To give the in sight of the basic knowledge of Market Segmentation and Marketing Mix. 3. To impart knowledge on Product and Price Mix. 4. To establish link between commerce, business and marketing.



117B	Marathi	<ol style="list-style-type: none"> 1. Commerce students get knowledge of Marathi business area. 2. Recognizes the work and thoughts of competent persons in various fields. 3. Ethical, professional and ideological values are nurture din the students. 4. Commerce students get knowledge of Marathi business area. 5. Identifies the work and thoughts of competent persons in various fields. 6. Ethical, professional and ideological values are nurture din the students.
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F.Y.B.COM CBCS SEM II

Subject Code	Subject Name	Outcome
121	Compulsory English	<ol style="list-style-type: none"> 1. To offer relevant and practically helpful pieces of prose and poetry to students so that they not only get to know the beauty and communicative power of English but also its practical application. 2. To expose students to a variety of topics that dominate the contemporary socioeconomic and cultural life 3. To develop oral and written communication skills of the students so that their employ ability enhances. 4. To develop overall linguistic competence and communicative skills.
122	Financial Accounting-II	<ol style="list-style-type: none"> 1. To understand concepts computerized accounting, its application and utility. 2. To understand the preparation of final account of Charitable Trust. 3. To understand the methods of valuation of intangible assets. 4. To understand the process and methods of leasing.
123	Business Economics (Micro)-II	<ol style="list-style-type: none"> 1. To understand the concept and types of cost and revenue. 2. To impart knowledge about equilibrium of firm and industry in short and long run. 3. To develop ability to understand the market structures under imperfect competition 4. To understand the theory of marginal productivity and theories in factor pricing.
124-B	Computer Concepts & Applications -II	<ol style="list-style-type: none"> 1. To make the students familiar with Computer environment. 2. To make the students familiar with basics of Network, Internet and related concepts. 3. To make awareness among students about applications of Internet in Commerce. 4. To enable make awareness among students about-commerce and M Commerce.
125-B	Fundamentals of banking-II	<ol style="list-style-type: none"> 1. To learn about Lending Principles and Balance Sheet of a Bank 2. To learn about Negotiable instruments 3. To learn about Endorsement. 4. To acquire knowledge about current trends in Banking Technology
127 B	Marathi	<ol style="list-style-type: none"> 1. Commerce students get knowledge of Marathi business area. 2. Identifies the work and thoughts of competent persons in various fields. 3. Ethical, professional and ideological values are nurture din the students



Subject Code	Subject Name	Outcome
231	Business Communication I	<ol style="list-style-type: none"> 1. Improvement in communication skills and enhancement of the Business Communication Skills. 2. Develop an integrative approach where reading, writing, oral and speaking English 3. Improvement in Personality Development 4. Improving written communication and Business Correspondence.
232	Corporate Accounting I	<ol style="list-style-type: none"> 1. Get knowledge of various Accounting Standards. 2. Acquire practical knowledge of Preparation of Final Accounts of Companies under Companies Act, 2013. 3. Gain practical knowledge of Liquidation process. 4. Learn about Computerized Accounting and Inventory accounting. 5. Get knowledge of Amalgamation, Absorption and External Reconstruction of Companies. 6. Understand the process of Internal Reconstruction. 7. Gain practical knowledge of Consolidation of Holding and Subsidiary Company. 8. Concept of Valuation of shares, and how to calculate Value of each share by using various methods.
233	Business Economics(Macro)	<ol style="list-style-type: none"> 1. To make the students aware of concepts in macro economics 2. To make the students aware of basic concepts in national income 3. To help the students to understand the concept of Employment and theory Output 4. To impart knowledge of Consumption Function, Saving and Investment Function 5. To make the students know about Demand, Supply and Value of Money. 6. To understand the concept Inflation. 7. To understand the concept and phases of trade cycle. 8. To understand Public Finance.
234	Business Management I	<ol style="list-style-type: none"> 1. To provide basic knowledge and understanding about various concepts of Business Management. 2. To help the students to develop cognizance of the importance of management principles. 3 To provide an understanding about various functions of management. 4 To provide them tools and techniques to be used in the performance of the managerial job.



235	Elements of Company Law I	<ol style="list-style-type: none"> 1. To develop general awareness of Elements of Company Law Among the students. 2. To understand the Companies Act 2013 and its provisions. 3. To have a comprehensive understanding about the existing law On formation of new company in India. 4. To create awareness among the students about legal environment relating to the company law 5. To acquaint the students on e-commerce, E governance and e-Filling mechanism relating to Companies. 6. To enhance capacity of learners to seek the career opportunity in corporate sector.
236(B)	Banking and Finance - I	<ol style="list-style-type: none"> 1. To provide the knowledge about Indian Banking System. 2. To create the awareness about the role of banking in economic development. 3. To provide the knowledge about working of Central Banking in India. 4. To know the functioning of private and public sector banking in India.

S.Y.B.COM–CBCS SEM IV

Subject Code	Subject Name	Outcome
241	Business Communication II	<ol style="list-style-type: none"> 1. To understand the concept, process and importance of communication. 2. To acquire and develop good communication skills requisite for business correspondence. 3. To develop awareness regarding new trends in business communication. 4. To provide knowledge of various media of communication. 5. To develop business communication skills through the application and exercises.
242	Corporate Accounting II	<ol style="list-style-type: none"> 1. To acquaint the student with knowledge of corporate policies of investment for expansion and growth through purchase of stake in or absorption of smaller units. 2. To develop the knowledge among the student about consolidation of financial statement with the process of holding. 3. To update the students with knowledge of the process of liquidation of a company 4. To introduce the students with the recent trends in the field of accountancy.
243	Business Economics (Macro) II	<ol style="list-style-type: none"> 1. To familiarize the students to the basic theories and concepts of Macro Economics and their application. 2. To understand the theories of money. 3. To understand the phases of trade cycle and policy measures to elongate the trade cycle. 4. To understand various concepts related to public finance. 5. To understand credit creation of banks and money measures of RBI



244	Business Management II	<ol style="list-style-type: none"> 1. To provide basic knowledge and understanding about various concepts of Business Management. 2. To help the students to develop cognizance of the importance of Management principles. 3. To provide an understanding about various functions of management. 4. To provide them tools and techniques to be used in the performance of the managerial job.
245	Elements of Company Law II	<ol style="list-style-type: none"> 1. To develop general awareness of Elements of Company Law Among the students. 2. To understand the Companies Act 2013 and its provisions. 3. To have a comprehensive understanding about the existing law on formation of new company in India. 4. To create awareness among the students about legal environment relating to the company law. 5. To acquaint the students on e-commerce, E governance and e-filing mechanism relating to Companies. 6. To enhance capacity of learners to seek the career opportunity in corporate sector.
246(B)	Banking and Finance - II	<ol style="list-style-type: none"> 1. To provide the knowledge of Cooperative Banking in India 2. To analyze the functioning of Development Banking 3. To create the awareness about Banking Sector Reforms.

T.Y.B.COM CBCS SEM V

Subject Code	Subject Name	Outcome
351	Business Regulatory Framework - I	<ol style="list-style-type: none"> 1. Acquire knowledge of General principles of Indian Contract Act, 1872. 2. Get acquainted with knowledge of Law of Partnership and LLP. 3. Understand various concepts under Sales of Goods Act, 1930. 4. Gain knowledge about nature & significance of E-commerce and Digital Signature. 5. Learn about various provisions under Consumer Protection Act, 1986. 6. Get acquainted with knowledge of Intellectual Property Rights. 7. Understand various concepts of under Negotiable Instruments Act, 1881 8. Understand Laws relating to Arbitration & Conciliation
352	Advanced Accounting - I	<ol style="list-style-type: none"> 1. Understand Accounting Standards and introduction to IFRS – Fair Value Accounting. 2. Understand how to prepare and present the final accounts of Banking Companies 3. Understand how to calculate insurance claim in case of Loss of Profit Policy, Loss of Stock Policy and Loss of Assets 4. Understand how to prepare and present the final accounts of Co-operative Societies 5. Understand all the computerized accounting practices related to VAT, Service Tax, CENVAT, TDS 6. Understand the Types and methods of Branch Accounting 7. Understand accounting by single entry system 8. Understand all the ratios and how to analyses them



353	Indian & Global Economic Development-I	<ol style="list-style-type: none"> 1. To make the students aware of concepts in Indian & Global Economic Development 2. To make the students aware of Place of Agriculture in Indian Economy 3. To help the students to understand the Industrial Development in India Since 1991 4. To understand Role of Basic infrastructure in economic development of India. 5. To understand the concept of Concept of Human Development Index (HDI) 6. To understand the Meaning and Challenges of Liberalization, Privatization & Globalization 7. To understand the Importance of Foreign Trade in Economic Development 8. To understand Regional & International Economic co-operation.
354	Auditing & Taxation-I	<ol style="list-style-type: none"> 1. Students will be able to learn the Principles of Auditing and Audit Process 2. Knowledge of various concepts regarding checking, vouching and Audit Report. 3. Impart the knowledge regarding Qualification, Disqualifications, Appointment, Removal, Rights, Duties and liabilities. 4. Knowledge of Scope of Auditor's Role under Income Tax Act Compulsory Tax Audit. 5. Concept related Audit of Computerized Systems. 6. Students will be able to learn the Concepts and Definitions under Income Tax Act-1961. 7. Impart the knowledge regarding Computation of Taxable Income under the different Heads of Income. 8. Knowledge of Computation of Total Taxable Income of an Individual. 9. Students will be able to learn the concepts of Tax deducted at source, Return of Income, Advance payment of Tax, methods of payment of tax. 10. Concepts of Structure, Functions and powers of various Income Tax Authorities
355(B)	Banking & Finance II	<ol style="list-style-type: none"> 1. To acquaint the students with Indian Financial System and its various segments. 2. To make the students aware about Indian Money Market. 3. To analyze and understand the functions of Indian Capital Market. 4. To enable the students the functioning of Foreign Exchange Market.



365(B)	Banking & Finance II	<ol style="list-style-type: none">1. To familiarize students about various basic concepts of stock Market2. To analyze the types and process of stock trading3. To enable the students to understand the functions and working of Non -Banking Financial Institutions in India4. To enable the students to acquire sound knowledge of Regulatory Bodies in India.
366(B)	Banking & Finance III	<ol style="list-style-type: none">1. To familiarize students about concept and types cyber Crimes in banking2. To understand the aspects of paying and collecting banker.3. To analyze the banker and customer's relationship.4. To enable the students to apply the legal and practical aspects of bank advances.



Bachelor of Science

Course Name	Programme Outcomes
B.Sc.	<ol style="list-style-type: none"> 1. To obtain knowledge with facts and figures related to various subjects in basic science such as Biotechnology, Microbiology, Zoology, physics, chemistry, Botany, Mathematics, Electronics and Geography etc. 2. To understand the fundamental concepts, principles, and scientific theories related to various scientific phenomena and their relevance in daily life. 3. The students will learn professional ethics including responsibility to work in teams & apply basic ethical principles, also apply knowledge of basic concept to science understand the interdisciplinary nature of Science, also analyze the learned laboratory skills. 4. Being a science student become well aware of various pollutants, their sources & the impacts on bio systems. So they become well versed with protection & conversation of environment. developed scientific outlook not only with respect to science subjects but also in all aspects related to life. 5. To enable to think innovatively to propose no veiled as in explaining facts or providing new solution to the problems. 6. Student should prepare themselves effectively by self-study & work in dependently present information in a clear, concise & logical manner.

Course Name	Program Specific Outcomes
B.Sc.	<ol style="list-style-type: none"> 1) To provide abroad foundation in science that stresses scientific reasoning and analytical problem solving with a molecular perspective. 2) To provide students with the skills required to succeeding radiate school, the science industry or professional school.



Course Outcome

Bachelor of Science

F.Y.B.Sc. CBCS SEM-I

Subject Code	Subject Name	Outcome
CH-101	Physical Chemistry	<ol style="list-style-type: none"> 1. Students will be able to apply the urodynamic principles to physical and chemical process. 2. Knowledge of Chemical equilibrium will make students to understand-relation between Free energy and equilibrium and factors affecting on equilibrium constant. 3. Concept of ionization process occurred in acids, bases and pH scale. 4. Related concepts such as Common ion effect, 5. Hydrolysis constant, ionic product, so lability product.
CH-102	Organic Chemistry	<ol style="list-style-type: none"> 1. The students are expected to understand the fundamentals, principles, and recent developments in the subject area. 2. It is expected to inspire and boost interest of the students towards chemistry as the main subject. To familiarize with current and recent developments in Chemistry. 3. To create foundation for research and development in Chemistry.
BO-111	Plant Life and Utilization-I	<ol style="list-style-type: none"> 1. Students will be able to understand Introduction to plant world. General Unique features of plants and outline of the classification with example. 2. Knowledge of Structure of plant Cell, characteristic feature. 3. To know the Plant Tissues and tissue systems.
BO-112	Plant Morphology and Anatomy	<ol style="list-style-type: none"> 1. Students will be able to understand descriptive and interpretative morphology. 2. Students will able to understand Introduction and definition Importance in Taxonomy, Physiology, Ecological interpretations, Pharmacongnosy and Wood identification. 3. To know the different Types of Tissues in plants and internal Primary organization in plants.
ZO-111	Animal Diversity-I	<ol style="list-style-type: none"> 1. Students will be able to understand diversity and evolutionary concepts of taxonomy & nomenclature of animals. 2. The student will be able to understand classify and identify the diversity of animals. 3. The understand the importance of classification of animals and classifies them effectively using the six levels of classification.



		<ol style="list-style-type: none"> The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life.
ZO-112	Animal Ecology	<ol style="list-style-type: none"> The learner will be able to identify and critically evaluate their own beliefs, values and actions in relation to professional and societal standards of ethics and its impact on ecosystem and biosphere due the dynamics in population. To understand anticipate, analyze and evaluate natural resource issues and act on a lifestyle that conserves nature. The Learner understands and appreciates the diversity of ecosystems and applies beyond the syllabi to understand the local lifestyle and problems of the community. The learner will be able to link the intricacies of food chains, food webs and link it with human life for its betterment and for non-exploitation of the biotic and abiotic components. The working in nature to save environment will help development of leadership skills to promote betterment of environment.
MB 111	Introduction to Microbial World	<ol style="list-style-type: none"> Students will be able to know development of microbiology as a discipline and knowledge of Golden Era and modern Era of Microbiology. Student will be aware of Carl Woes classification based on16S reran Signification and Application of Human Micro biome, Nano-biotechnology and Space Microbiology Characterization of Microorganisms as prokaryotes and Eukaryotes. Students acquired knowledge about Beneficial and Harmful effects of microorganisms.
MB 112	Basic Techniques in Microbiology	<ol style="list-style-type: none"> Students will be enriched with the knowledge of Microscopes. students will be able to understand Stains and Staining Techniques Concept of Sterilization and methods of sterilization and disinfection Characteristics of an ideal disinfectant Checking of efficiency of disinfectant



F.Y.B.Sc. CBCS SEM

II

Subject Code	Subject Name	Outcome
CH-201	Inorganic Chemistry	<ol style="list-style-type: none"> 1. Various theories and principles applied to reveal atomic structure. 2. Explain rules for filling electrons in various orbitals and ionization energies. 3. Attainment of stable electronic configurations. 4. Various types of chemical landsman basic Understanding of geometry and effect of lone pairs
CH-202	Analytical Chemistry	<ol style="list-style-type: none"> 1. Knowledge of Some important units of measurements. 2. Types of organic compounds, characteristic tests and classifications. 3. Introduction to chromatography and types of chromatographic techniques. 4. Introduction to pHmeterandits applications
BO-121	Plant Life and Utilization-II	<ol style="list-style-type: none"> 1. Students will be able to understand Introduction to plant diversity. 2. Students will be able to understand General characters' outline classification, Lifecycle pattern, Utilization and economic Importance of Pteridophytes, Gymnosperms ,Angiosperms.
BO-122	Principle of Plant Science	<ol style="list-style-type: none"> 1. Students will be able to know Introduction, definition and scope of plant physiology. 2. To understand Structure of plant cell, differences between prokaryotic and eukaryotic cell. 3. To understand Plant cell, wall components of primary cell wall, structure and functions 4. Students will be able to know phases of cell cycle, importance of cell cycle in plants, divisional stages of mitosis and meiosis. 5. Students will be able to know introduction and Scope of molecular biology, central dogma of molecular biology.
ZO-121	Animal diversity– II	<ol style="list-style-type: none"> 1. Students will be able to understand diversity and evolutionary concepts of taxonomy & nomenclature of animals. 2. The student will be able to understand classify and identify the diversity of animals. 3. The understand the importance of classification of animals and classifies them effectively using the six levels of classification. 4. The student knows his role in nature as a protector, preserver and promoter of life which he has achieved by learning, observing and understanding life.
ZO-122	Cell Biology	<ol style="list-style-type: none"> 1. The learner will understand the importance of cell as a structural and functional unit of life. 2. The learner understands and compares between the prokaryotic and eukaryotic system and extrapolates the life to the aspect of development. 3. The dynamism of bio membranes indicates the dynamism of life. Its working mechanism and precision are responsible for our performance in

		<p>life.</p> <p>4. The cellular mechanisms and its functioning depends on endo-membranes and structures. They are best studied with microscopy.</p>
MB-121	Bacterial Cell and Biochemistry	<p>1. Students will be able to know bacterial cytology.</p> <p>2. Knowledge of Chemical Basis of Atom, Bio molecule and types of bonds.</p> <p>3. Knowledge of Classification of Bacteria - Introduction to</p> <p>4. Berge's Manual of Determinative and Systemic Bacteriology</p>
MB-122	Microbial Cultivation and Growth	<p>1. Knowledge of nutrient required by microorganism's will Make students to understand classification, preparation of different types of culture media in laboratory and them growth.</p> <p>2. Concept of pure culture and isolation techniques will make the students aware of isolation of microorganisms from various sources in pure form and also role and importance of Culture Collection centers.</p> <p>3. Kinetics of bacterial growth, diauxic growth. Measurement of bacterial growth- by various methods.</p> <p>4. Students will be aware of different environmental factors affecting microbial growth.</p>

S.Y.B.SC (2019 Pattern) SEM III

Subject Code	Subject Name	Outcome
CH-301	Physical and Analytical Chemistry	<p>1. Define/Explain concept of kinetics, terms used, Rate laws, molecularity, Order.</p> <p>2. Apply adsorption process to real life problem.</p> <p>3. Apply statistical methods to express analytical results</p> <p>4. To prepare standard solutions and perform standardization of solutions.</p>

CH-302	Inorganic and Organic Chemistry	<p>1. Explain and apply LCAO principal for the formation of MO's from AO's</p> <p>2. Apply IUPAC nomenclature of two coordination Compounds.</p> <p>3. Identify and draw the structure of aromatic Hydrocarbons from the iframes or from structure name can be assigned.</p> <p>4. Explain important reactions of alkyl / aryl halides.</p> <p>5. Able to differentiate between alcohols and phenols.</p> <p>6. To correlate reagent and reaction of alcohols/phenols,</p>
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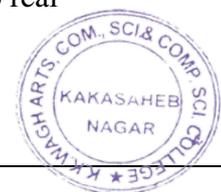
BO- 231	Taxonomy of Angiosperms and Plant Ecology	<ol style="list-style-type: none"> 1. Know principals of taxonomy, methods in taxonomy 2. Understand the classification application economical and biological importance of Angiosperms 3. Introduction to ecology, Ecosystem Types of Ecosystem.
BO- 232	Plant Physiology	<ol style="list-style-type: none"> 1. Applications of plant physiology, Mechanism of Absorption of water, Transpiration. 2. Knowledge of Plant growth and plant growth regulators. 3. Concept to Nitrogen metabolism. 4. To study various metabolic processes in plants like transpiration, ascent of sap, physiology of flowering
ZO-231	Animal Diversity- III	<ol style="list-style-type: none"> 1. The students will be able to understand, classify and identify the diversity of higher vertebrates. 2. The students will able to understand the complexity of higher vertebrates 3. The students will be able to understand different life functions of higher vertebrates. 4. The students will be able to understand the linkage among different groups of higher vertebrates. 5. The student will become aware regarding his role and responsibility towards nature as a protector, to understand his role as a trustee and conservator of life which he has achieved by learning, observing and understanding life.
ZO-232	Applied Zoology- I	<ol style="list-style-type: none"> 1. The learner understands the basics about beekeeping tools, equipment, and managing beehives. 2. The learner understands the basic information about fishery, cultural and harvesting methods of fishes and fish preservation techniques. 3. The learner understands the biology, varieties of silkworms and the basic techniques of silk production. 4. The learner understands the types of agricultural pests, Major insect pests of agricultural importance and Pest control practices.
MB 231	Medical Microbiology And Immunology	<ol style="list-style-type: none"> 1. Understanding the Concept OF epidemiology with respect to terms like Incubation period, Viability, Susceptibility, Pathogenicity, Virulence 2. Acquainted with human pathogens such as Escherichia coli, 3. Staphylococcus aureus, Fungi like Yeast - Candida as well as Dermatophytes. 4. Principles of Chemotherapy are introduced based on Selective toxicity, Bio viability, MIC, MBC, LD50, And other related terms 5. . Comprehend the term immunity with bits' types 6. Get knowledge of hematopoiesis, Antigens and antibodies, Immunology, Inheritance of ABH antigens, Medico legal Application of Blood groups 7. Acquired with Active and Passive immunization



MB 232	Bacterial Physiology and Fermentation	<ol style="list-style-type: none"> 1. 1 Acquainted with the term Enzymes, its nomenclature and classification and models for catalysis 2. Understand the effect of pH, temperature, substrate concentration, enzyme concentration, activators and inhibitors on enzymes 3. Understanding the concept of Bacterial Physiology with reference to metabolism, catabolism, anabolism, respiration and fermentation 4. Comprehend the different metabolic pathways with structures 5. Acquainted with design of a fermenter, fermentation parameters, use of media for industrial fermentations 6. Understand the sources of contamination during fermentations
	EVS	<ol style="list-style-type: none"> 1. Understand and apply basic concepts related to structural and functional aspects of ecosystems. 2. Students will be able to understand interconnectedness among biotic and abiotic components of Ecosystems 3. Students will observe and interpret the data related to Ecosystems 4. Students will be able to understand dynamic nature of ecological processes in maintaining the equilibrium in nature
	उपयोजित मराठी	<ol style="list-style-type: none"> 1. अभ्यासक्रमातून विद्यार्थ्यांना भाषेचे स्वरूप आकलन झालेले दिसते. 2. अर्जलेखन व स्वपरिचय तयार करण्याचे कौशल्य आत्मसात होते. 3. वृत्तपत्रे, नभोवाणी, चित्रवाणी यासाठीची लेखनकौशल्ये आत्मसात होण्यास मदत होते.

S.Y.B.SC (2019Pattern) SEM IV

CH-401	Physical and Analytical Chemistry	<ol style="list-style-type: none"> 1. 1. Student will be able to explain of one component system with respect to 2. : Description of the curve, Phase ruler relationship and typical feature for 3. i) Water system ii) Carbon dioxide system iii) Sulphur system 4. Differentiate between ideal and non-ideal solutions and can apply Raoult's law. 5. Apply conductometric methods of analysis to real problem in analytical laboratory. 6. Apply and column chromatographic process for real analysis in analytical laboratory.
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CH-402	Inorganic and Organic Chemistry	<ol style="list-style-type: none"> 1. Explain different types of isomerism in coordination complexes. 2. Apply principles of VBT to explain bonding in coordination compound of different geometries. 3. Apply crystal field theory to different types of complexes (Td, Oh, Sq., Pl complexes.) 4. Give synthesis of expected aldehyde, ketones, carboxylic acid and their derivatives, Diazonium salt from amines, and their reactions. 5. Draw the structure of different conformation of cyclohexane
BO-241	Plant Anatomy and Embryology	<ol style="list-style-type: none"> 1. Students will be able to apply scope of plant anatomy and types of tissues. 2. To study the embryology of plants. 3. Know different tissue systems in plants. 4. Students will be able to understand Fertilization: Mechanism of pollination, germination of pollen grain.
BO-242	Plant Biotechnology	<ol style="list-style-type: none"> 1. Students will be able to apply Interdisciplinary nature of biotechnology. 2. Single Cell Proteins and Environmental biotechnology 3. Students will be able to understand Basics of plant genetic engineering. 4. Plant genetic engineering, genomics, proteomics and bioinformatics.
ZO-241	Animal Diversity- IV	<ol style="list-style-type: none"> 1. The students will be able to understand, classify and identify the diversity of higher vertebrates. 2. The students will be able to understand the complexity of higher vertebrates 3. The students will be able to understand different life functions of higher vertebrates. 4. The students will be able to understand the linkage among different groups of higher vertebrates. <p>The student will become aware regarding his role and responsibility towards nature as a protector, to understand his role as a trustee and conservator of life which he has achieved by learning, observing and understanding life.</p>
ZO-242	Applied Zoology-II	<ol style="list-style-type: none"> 1. The learner understands the basics about beekeeping tools, equipment, and managing beehives. 2. The learner understands the basic information about fishery, cultural and harvesting methods of fishes and fish preservation techniques. 3. The learner understands the biology, varieties of silkworms and the basic techniques of silk production. 4. The learner understands the types of agricultural pests, Major insect pests of agricultural importance and Pest control practices.



MB 241	Bacterial Genetics	<ol style="list-style-type: none"> 1. Understanding the different experimental evidence for nucleic acid as genetic material 2. Comprehend the different types of nucleic acids, Structure of DNA and Prokaryotic DNA replication. 3. Understand the different models and modes of DNA replication with its basic rules of DNA replication 4. Get knowledge of Gene expressions, Mutations and reversions5. Acquainted with Plasmid genetics
MB 242	Air, Water And Soil Microbiology	<ol style="list-style-type: none"> 1. The course will help them to get knowledge of the Air Microbiology, methods of air sampling, different types of air samplers, air sanitation and airborne infections. 2. Deals with water microbiology including bacteriological analysis of water, methods of water purification, water borne infections and bacteriological standards of water quality. 3. Understand Soil Microbiology, rhizosphere, composting and humus formation, bio fertilizers, biocontrol agents and microbial interactions. 4. Acquire knowledge of carbon and nitrogen cycles with role of microorganisms.
2301	EVS	<ol style="list-style-type: none"> 1. Understand and apply basic concepts related to structural 2. Students will be able to understand interconnectedness among biotic and abiotic components of Ecosystems 3. Students will observe and interpret the data related to Ecosystems 4. Students will be able to understand dynamic nature of ecological processes in maintaining the equilibrium in nature
	मराठी साहित्य	<ol style="list-style-type: none"> 1. अभ्यासक्रमातून विद्यार्थ्यांना निबंध व कथा या साहित्यप्रकारांचे स्वरूप आकलन झालेले दिसते. 2. कथा साहित्य प्रकारची वाटचाल समजते. 3. विद्यार्थ्यांत मानवी संवेदनांची रुजुवात होते.

T.Y.B.Sc.(2019) Pattern) SEM V

(Chemistry)

CH-501	Physical Chemistry-I	<ol style="list-style-type: none"> 1. Understand and explain the differences between classical and quantum mechanics. 2. Understand the idea of wave function. 3. Understand the term additive and constitutive properties. 4. Factors affecting the quantum yield.
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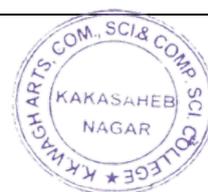


CH-502	Analytical Chemistry-I	<ol style="list-style-type: none"> 1. Perform quantitative calculations depending upon equations student has studied in the theory. Furthermore, student should able to solve problems on the basis of theory. 2. Discuss / Describe procedure for different types analyses included in the syllabus. 3. Select particular method of analysis if analytic sample is given to him. 4. Demonstrate theoretical principles with help of practical. 5. Design analytical procedure for given sample. 6. Apply whatever theoretical principles he has studied in theory during practical session in laboratory.
CH-504	Inorganic Chemistry-I	<ol style="list-style-type: none"> 1. Explain electro neutrality principle and different types of pi bonding. 2. Classification of reactions of coordination compounds. 3. To know position of d-block elements in periodic table. 4. Electronic configuration of lanthanides and actinides. 5. Metallic bond on the basis of band theory.
CH-505	Industrial Chemistry	<ol style="list-style-type: none"> 1. Importance of chemical industry. 2. Concept of basic chemicals. 3. Importance of sugar industry. 4. Different types of soap products. 5. Classification and general properties of pigment.

CH-507	Organic Chemistry-I	<ol style="list-style-type: none"> 1. Define and classify polynuclear and hereto nuclear aromatic hydrocarbons. 2. Write the structure, synthesis of polynuclear and hereto nuclear aromatic hydrocarbons. 3. Understand the reactions and mechanisms. 4. Explain the reactivity of polynuclear and het pronuclear aromatic hydrocarbons. 5. Describe the synthesis of chemical reactions of polynuclear and hetreonuclear aromatic Hydrocarbons.
CH-508	Chemistry of Biomolecules	<ol style="list-style-type: none"> 1. The student will be understanding of Cell types, Difference between a bacterial cell, Plant cell and animal cell. 2. Properties of carbohydrates. 3. The student needs to know the types of lipids with examples, structure of lipids, properties of lipids. 4. Reactions of amino acids. 5. Basic concepts of Endocrinology.



CH-510(B)	Polymer Chemistry	<ol style="list-style-type: none"> 1. History of polymers. 2. Difference between simple compounds and polymer. 3. Names of polymers. 4. Various ways of nomenclature. 5. Difference between natural, synthetic, organic and inorganic polymers
CH-511(A)	Environmental Chemistry	<ol style="list-style-type: none"> 1. Importance and conservation of environment. 2. Importance of biogeochemical cycles 3. Organic and inorganic pollutants. 4. Water quality parameters
MB-351	Medical Microbiology -I	<ol style="list-style-type: none"> 1. Understand the human anatomy, pathogens associated with diseases. 2. Acquire knowledge of principles underlying establishment of pathogens in human body. 3. Comprehend of pathogenesis of specific pathogens causing microbial diseases. 4. Assess epidemiological patterns of microbial disease transmission as various modes, intensity at local and global level. 5. Gain Knowledge principles of chemotherapy of microbial diseases and development of drug resistance among pathogens and strategies to mitigate. 6. Develop identification systems for microbial disease diagnosis, disease treatment and prevention measures.
MB – 352	Immunology – I	<ol style="list-style-type: none"> 1. Understand immune system structure, composition, function and comparison of different types of immunity. 2.Acquire knowledge about antigens, Recognition of pathogens; antigen processing and presentation; Immunity to infection and pathological consequences of immune deficiencies. 2. To learn the applications of Immunology in monoclonal antibodies, vaccines production and Immunotherapy. 3. Understand abnormal working of Immune system in hypersensitivity, auto immune diseases, immune tolerance and transplantation immunology. 4 To develop strategies for Diagnosis of diseases based on antigen and antibody reactions with emphasis on prevailing communicable diseases
MB- 353	Enzymology	<ol style="list-style-type: none"> 1. To understand methods of active site determination, role of enzymes and its cofactors in microbial physiology. 2 To learn to perform enzyme assay, purification and quantification of enzymes activity, enzyme kinetics in terms of initial, final velocity, mathematical expression of enzyme kinetic parameters. 2. To correlate regulation of metabolism at enzymatic levels and apply, methodology for commercial applications of enzymes 3. To learn mechanisms of transport of solutes across the membrane 4. To get acquainted with mechanism of biosynthesis and degradation of bio molecules. 5 To comprehend basic concept of autotrophic mode of metabolism of prokaryotes



MB-354	Genetics	<ol style="list-style-type: none"> 1. To exhibit a knowledge base in Genetics and Molecular Biology 2. To understand the central dogma of Molecular Biology 3. To construct genetic map of bacteria and fungi 3. To get introduced to concept of recombination and bacteriophage Genetics 4. To understand the concept cloning in bacteria 5. To demonstrate the knowledge of common and advanced laboratory practices in Molecular Biology
MB-355	Fermentation Technology – I	<ol style="list-style-type: none"> 1. To impart technical understanding of commercial fermentations. 2. To apply classical, advanced strain improvement and isolation techniques for fermentation processes. 3. To optimize and sterilize media used in fermentation industry for commercially economical and efficient fermentations. 4. To recover the product using suitable methods and ensuring quality of the finished product by quality assurance tests. 5. To acquaint fermentation economics, process patentability, process validation 6. To comprehend the large-scale productions of commercially significant fermentation products of classical and recent significance.
MB-356	Agricultural Microbiology	<ol style="list-style-type: none"> 1. To understand plant growth improvement with respect to disease resistance, environment tolerance. 2. To correlate stages of plant disease development, epidemiology, symptom based classification, control methods. 3. To understand the importance of microorganisms in sustainable agriculture, biotechnological application of bio films, edible vaccines. 4. To correlate Soil Micro biome and Role of microorganisms in soil health 5. To determine the use of Microorganisms as tools in plant genetic engineering.
MB 3510	Marine Microbiology	<ol style="list-style-type: none"> 1. To impart the awareness of unseen and unexplored niche of marine ecosystem of microbes. 2. To acquire advances in the knowledge of marine microbes and marine ecology. 3. To learn the field research on marine processes and laboratory research on microorganisms. 4. To comprehend the role of marine microbes in bioremediation and bioprospecting. 5. To avail career opportunities in marine education, industry and research.
MB 3511	Dairy Microbiology	<ol style="list-style-type: none"> 1. To understand prospects of dairying at commercial marketing. 2. To acquire skills of processing of milk and dairy products. 3. To assess quality control in dairy industry. 4. To comprehend production of dairy products of commercial significance with emphasis to local and global market demand.

T.Y.B.SC (2019Pattern) SEM VI

(Chemistry)



CH-601	Physical Chemistry-II	<ol style="list-style-type: none"> 1. EMF of electrochemical cell and its measurement. 2. Distinguish between crystalline and amorphous solids / anisotropic and isotropic solids. 3. Explain the term crystallography and laws of crystallography. 4. Types and properties of radiations: alpha, beta and gamma.
CH-602	Physical Chemistry-III	<ol style="list-style-type: none"> 1. Meaning of the Terms-Solution, electrolytes, nonelectrolytes and colligative properties, 2. Factors affecting on solid state reactions. 3. Rate laws for reactions in solid state. 4. Cohesive Energy of ionic crystals based on coulomb's law and Born Haber Cycle. 5. History of polymers.
CH-604	Inorganic Chemistry -II	<ol style="list-style-type: none"> 1. To understand M-C bond and to define organometallic compounds. 2. Understand the phenomenon of catalysis, its basic principles and terminologies. 3. Identify the biological role of inorganic ions & compounds. 4. know thy types of Inorganic polymers. 5. Understand Preparation of inorganic solids by various methods.
CH-605	Inorganic Chemistry -III	<ol style="list-style-type: none"> 1. They will also come to know different properties of acids and bases. 2. Know the nature of solids. 3. Historical Background, Natural and artificial Zeolites. 4. Various methods of nanoparticle synthesis. 5. To know toxic chemical in the environment.



CH-607	Organic Chemistry-II	<ol style="list-style-type: none"> 1. Students will learn the principle of mass spectroscopy, its instrumentation and nature of mass spectrum. 2. Students will understand the principle of UV spectroscopy and the nature of UV spectrum. They will learn types of electronic excitations. 3. Students will be able to calculate maximum wavelength for any conjugated system. And from the value of λ-max they will be able to find out the extent of conjugation in the compound. 4. Students will understand the principle of IR spectroscopy, types of vibrations and the nature of IR spectrum.
CH-608	Organic Chemistry-III	<ol style="list-style-type: none"> 1. After studying Retrosynthetic Analysis and Applications, students are expected to know: Introduction, Different terms used – Disconnection, Synthons, Synthetic equivalence, FGI, TM. One group disconnection, Retrosynthesis and Synthesis of target molecules: Acetophenone Croton aldehyde, Cyclohexene, Benzyl benzoate, and Benzyl diethyl malonate 2. After studying Organic Reaction Mechanism and Synthetic Applications, students are expected to know: Chemistry of reactive intermediates (carbonations, carbanions, free radicals, carbenes, nitrenes, benzyne etc...); Wolff rearrangement (Step up), Hofmann rearrangement (Step down), Simmons-Smith reaction, Michael reaction, Wittig reaction and Mc-Murree reaction, Diels-Alder reaction, Functional group interconversions and structural problems using chemical reaction 3. After studying Reagents in Organic Synthesis, students are expected to know: Reducing Reagents: Lithium aluminum hydride LiAlH_4, NaBH_4, DIBAL-H, $\text{Li}(\text{tBuO})_3\text{AlH}$ & Raney Nickel. Oxidizing Reagents: DMSO either with DCC or Ac_2O, Dess Martin reagent, Osmium tetroxide, Selenium dioxide-(SeO_2), DDQ
CH-610(A)	Chemistry of Soil and Agrochemicals	<ol style="list-style-type: none"> 1. Understood various components of soil and soil properties and their impact on plant growth. 2. Understood the classification of the soil. 3. Explores the problems and potentials of soil and decide the most appropriate treatment for land use. 4. Understood the Reclamation and management of soil physical and chemical constraints. 5. Useful in making decisions on nutrient dose, choice of fertilizers and method of application etc. practiced in crop production. 6. Got experience on advanced analytical and instrumentation methods in the estimation of soil.



CH-611(A)	Analytical Chemistry-II	<ol style="list-style-type: none"> 1. Discuss / Describe procedure for different types analyses included in the syllabus. 2. Select particular method of analysis if analytic sample is given to him. 3. Differentiate / distinguish / compare among the different analytical terms, process and analytical methods. 4. Demonstrate / explain theoretical principles with help of practical. 5. Design analytical procedure for given sample. 6. Apply whatever theoretical principles he has studied in theory during practical in laboratory
MB-361	Medical microbiology	<ol style="list-style-type: none"> 1. Students will be able to understand role of chemotherapy, 2. Concept of cultivation of viruses Pathogenicity, Pathogenesis, 3. Symptoms, Laboratory diagnosis including serological diagnosis, Epidemiology, Prophylaxis and Chemotherapy 4. To study Plasmodium, Ent amoeba, Giardia, Candida and Non-Candida fungal pathogens
MB-362	Immunology II	<ol style="list-style-type: none"> 1. Students will be able to know MHC, Cytokines 2. Understand Antigen- Antibody Interactions 3. Gain knowledge about Immunohematology 4. Knowledge about public health which includes immunization. 5. Also students will gain about hypersensitivity autoimmunity. 6. Significance of CMI and Hybridism Technology.
MB-363	Metabolism	<ol style="list-style-type: none"> 1. Students will be able to study various nutrient transport mechanisms in prokaryotes. 2. Concept of thermodynamics, High energy compounds and electron transport chain in mitochondria, its components, and its uncouples. 3. Students will be able to study synthesis and degradation of biomolecules such as carbohydrates, proteins and lipids. 4. Also students will gain the knowledge of bacterial photosynthesis process which includes, photosynthetic machinery, pathways, habitat of photosynthetic bacteria and their types.



MB-364	Molecular Biology	<ol style="list-style-type: none"> 1. Students will be able to know Gene linkage and crossing over 2. DNA damage and repair mechanism and 3. Students will updated with recombinant DNA technology.
MB-365	Fermentation Technology – II	<ol style="list-style-type: none"> 1. Students will be able to know Introduction to Solid State Fermentation and Submerged Fermentation 2. Knowledge of Large scale production of various metabolites
MB-366	Food Microbiology	<ol style="list-style-type: none"> 1. Students will have updated with the resent technology used for Agriculture 2. Students become aware with the principle and methodology, Biochemistry and production of bio fertilizers 3. Students will get deep knowledge regarding methods, processes, and Bioremediation and Waste Water Treatment.
MB-3610	Waste Management	<ol style="list-style-type: none"> 1. To understand waste management and it practicable applicability. 2. To assess the magnitude and influence of hazardous content of waste, pollution of waters and waste water treatment technologies. 3. To learn the design and working of treatment plants and methods used for liquid and solid waste treatment. 4. To impart the understanding of kinetics of biological systems used in waste treatment.
MB-3611	Nano biotechnology	<ol style="list-style-type: none"> 1. To understand design, development and application of Nanomaterials and their application in Nano devices. 2. To learn fundamentals of nanotechnology as to Synthesis and characterization techniques of nanoparticles. 3. To acquire knowledge of applications of nanomaterials in different disciplines of human life. 4. To compare the merits of using nanotechnology with existing technologies.



Department of Computer Science

Programme Outcomes, Programme Specific Outcomes & Course Outcomes (PO, PSO, CO)

Mechanism of Communication:

Clear learning outcomes of the programs and courses are stated by the college. Following is the mechanisms which are followed by the institution to communicate the learning outcomes to the teachers and students. Hard Copy of syllabi and Learning Outcomes are available in the departments for ready reference to the teachers and students.

Course Name	Program Outcomes
B. Sc. Computer Science	<ol style="list-style-type: none">1. Disciplinary knowledge: Apply knowledge of basic concepts of computer and mathematics appropriate to discipline and to provide effective solution in the area of computer.2. Sense of inquiry: Discuss, explain and illustrate a computational system to meet professional skills related to software industry like programming languages, web designing.3. Effectual communication: Illustrate the concept of system fundamentals including architecture, an organization, networking and communication.4. Proficient in subject matter: Describe mathematics fundamentals including discrete structure, statistics, calculus and electronics.5. Social and ethical values: Develop ability to perform professionally with social, cultural and ethical responsibility as an individual roasts remembers positively.6. Modern tool usages: Differentiate between microprocessor and microcontroller so design their various applications in real world.7. Critical thinking: Gain the knowledge about software engineering fundamental including software analysis and design also evaluation, testify of software engineering process.8. Self-directed and Lifelong learning: Capable of adapting to new technologies and constantly upgrade their skills with an attitude towards lifelong learning.



Course Name	Program Specific Outcomes
B.Sc. Computer Science	<ol style="list-style-type: none"> 1. Ability to understand the principles and develop different applications of computer system in various fields. 2. Explore technical knowledge in diverse areas of Computer Science and experience an environment in cultivating skills for successful career, entrepreneurship and higher studies.

Sr. No.	Course code	Course Name	Outcomes
1	CS-111	Problem-solving using Computer and 'C' Programming	<ol style="list-style-type: none"> 1. Students will be able to write algorithms and to draw flow charts for solving problems. 2. To convert the algorithms / flow charts to Programs. 3. To code and test a given logic in C programming language 4. To decompose a problem in to functions and to develop modular reusable code 5. Write C programs Using Array
2	CS-112	Database Management Systems	<ol style="list-style-type: none"> 1. Students will be able to understand the what is DBMS. 2. Students will be able to understand DB design process, Data models. 3. Students will be able to understand DDL and DML commands, Attributes query. 4. Students will be able to understand relational- Database 5. Design, Functional Dependency, normalization.
3	ELC-111	Semiconductor Devices and Basic Electronic Systems	<ol style="list-style-type: none"> 1. To study various types of semi-conductor devices. 2. To study elementary electronic circuits and systems. 3. To undress and basic of Power supply circuits. 4. To study basics of Oscillator circuits.
4	ELC-112	Principles of Digital Electronics	<ol style="list-style-type: none"> 1. To get familiar with concepts of digital electronics. 2. To learn number system, sand their representation. 3. To understand basic logic gates, Boolean algebra 4. And-map. 5. To study arithmetic circuits, combinational circuits and sequential circuits.



5	MTC-111	Matrix Algebra	<ol style="list-style-type: none"> 1. Students will be able to apply concepts , tools and techniques used in business statistical analysis. 2. Students should understand sums, differences, & quotients for all activities, have improved their arithmetic skills. 3. To understand ‘moments’ as a convenient and unifying method for summarizing several descriptive statistical measures. 4. The students should be able to develop original thinking for formulating new problems and providing their solutions, Increasing Disciplinary Knowledge.
6	MTC-112	Discrete Mathematics	<ol style="list-style-type: none"> 1. Identify an appropriate probability distribution for a given discrete or continuous random variable and use its properties to calculate probabilities. 2. Calculate probabilities for joint distributions including marginal and conditional Probabilities.

			<ol style="list-style-type: none"> 3. Derive expressions formed as rves such as the mean and variance of common probability distributions using calculus and algebra. 4. For jointly distributed random variables calculate their covariance and correlation and determine Whether they are independent.
7	CSST-111	Descriptive Statistics	<ol style="list-style-type: none"> 1. Students will be able to apply concepts , tools and techniques used in business statistical analysis. 2. Students should understand sums, differences, & quotients for all activities, have improved their arithmetic skills. 3. To understand ‘moments’ as convenient and unifying method for summarizing several descriptive statistical measures. 4. The students should be able to develop original thinking for formulating new problems and providing their solutions, Increasing Disciplinary Knowledge



8	CSST-112	Mathematical Statistics	<ol style="list-style-type: none"> 1. Identify an appropriate probability distribution for a given discrete or continuous random variable and use its properties to calculate probabilities. 2. Calculate probabilities for joint distributions including marginal and conditional probabilities. 3. Derive expressions for measures such as the mean and variance of common probability distributions using calculus and algebra. 4. For jointly distributed random variables calculate their covariance and correlation and determine whether they are independent.
9	CS-121	Advanced 'C' Programming	<ol style="list-style-type: none"> 1. Develop modular programs using pointers. 2. To understand the concept of arrays, strings. 3. To develop program using structures and union. 4. To working with files. 5. Write C Program using substitution
10	CS-122	Relational Database Management Systems	<ol style="list-style-type: none"> 1. Students will be able to understand the PLSQL. 2. Students will be able to understand Transaction Concepts and concurrency control. 3. Students will be able to understand Database Integrity and Security Concepts, encryption technique for security. 4. Students will be able to understand Crash Recovery, Recovery with concurrent transactions. 5. Students will be able to understand Other Databases like XML Databases, No SQL Database, Multimedia Databases, Big Data Databases.

11	ELC-121	Instrumentation System	<ol style="list-style-type: none"> 1. To study Instrumentation System 2. To study various blocks of Instrumentation System 3. To study Smart Instrumentation System
12	ELC-122	Basics of Computer Organization	<ol style="list-style-type: none"> 1. To get familiar with concepts of digital electronics. 2. To learn number systems and their representation 3. To understand basic logic gates, Boolean algebra and K-map. 4. To study arithmetic circuits, combinational circuits and sequential circuits



13	MTC-121	Linear Algebra	<ol style="list-style-type: none"> 1. Students will be able to learn about Vector spaces and subspaces, Null spaces, column spaces and linear transformations, Linearly independent sets: Bases, Coordinate systems, The dimension of a vector space, Rank. 2. Students will be able to understand about Eigen values and Eigen vectors, The characteristic equation, Diagonalization, Eigenvectors and Linear transformations. 3. Students will be able to understand about inner product, length and orthogonality, Orthogonal sets, Orthogonal Projections, Diagonalization of Symmetric Matrices, Quadratic forms. 4. Students will be able to learn about the Geometry of vector, Affine combinations, Affine independence, Convex combination.
14	MTC-122	Graph Theory	<ol style="list-style-type: none"> 1. The students should be able to work with graphs and identify certain parameters and properties of the given graphs. 2. The students should be able to perform certain algorithms, justify why the search algorithms work, give some estimates of the running times of these algorithms. 3. The students should be able to solve basic exercises of the type: given a graph with properties X, prove that the graph also has property Y. 4. Students will understand various types of trees and methods for traversing trees
15	CSST-121	Methods of Applied Statistics	<ol style="list-style-type: none"> 1. How to calculate and apply measures of location and measures of dispersion. To determine whether the correlation is significant. 2. How to calculate the simple linear regression equation for a set of data and know the basic assumptions behind regression analysis. 3. To demonstrate the ability to apply fundamental concepts in exploratory data analysis. 4. Students will effectively use professional level technology tools to support the study of mathematics and statistics.
16	CSST-122	Continuous Probability Distribution & Testing of Hypothesis	<ol style="list-style-type: none"> 1. Understand the difference between a discrete and continuous probability distribution. 2. Recognize the logic behind a hypothesis test and how it relates to the P-value. 3. Demonstrate knowledge of the properties of parametric, semi-parametric and nonparametric testing procedures. 4. To provide students with an opportunity to develop skills in modeling and simulating a variety of

			Management % related problems
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17	23922	English	<ol style="list-style-type: none"> 1. To introduce the use of English in multimedia 2. To acquaint the students with the language skills in multivalent contexts 3. To acquaint and enlighten students regarding the speaking skill in various contexts 4. To acquaint and familiarize the students with advanced writing skills in different contexts 5. To acquaint and familiarize the students with soft skills 6. To minimize the gap between the existing communicative skills of the students and the skills they require at professional level 7. To develop competence among the students to appreciate and analyze short stories and poetry
18	CS-231	Data Structures using and Algorithms-I	<p>On completion of the course, student will be able to</p> <ol style="list-style-type: none"> 1. To use well-organized data structures in solving Various problems. 2. To differentiate the usage of various structures in Problem solution 3. Implementing algorithms to solve problems using 4. Appropriate data structures.
19	CS-232	Software Engineering	<p>On completion of the course, student will be able to-</p> <ol style="list-style-type: none"> 1. Introduction to SE. 2. Compare and chose a process model for a software Project development 3. Identify requirements analyze and prepare models. 4. Prepare the SRS, Design document, Project plan of given software system. 5.To Design Various Concept Regarding SE.
20	ELC-231	Microcontroller Architecture & Programming	<ol style="list-style-type: none"> 1. To write programs for 8051 microcontroller 2. To interface I/O peripherals to 8051 microcontroller 3. To design small micro controller based projects
21	ELC-232	Digital Communication and Networking	<ol style="list-style-type: none"> 1. Define and explain terminologies of data communication 2. Understand the impact and limitations of various digital modulation techniques 3. To acknowledge schemes. 4. Identify functions of data link layer and network layer while accessing communication link 5. To choose appropriate and advanced techniques to build the computer network
22	MTC-231	Groups & Coding Theory	<ol style="list-style-type: none"> 1. Study core properties of integers. 2. Study concepts from group theory such as binary operations and the properties of binary operations 3. Understanding concept to groups, subgroups and group of permutation. 4. Understanding concept of transmission techniques, detecting & correction errors of transmission.

23	MTC-232	Numerical Technique	<ol style="list-style-type: none"> 1. Apply appropriate numerical methods to solve the problem with most accuracy. 2. Study different algorithmic techniques that are used to solve problems of approximation and of interpolation. 3. Learn different methods to solve problems of numerical integration 4. Determine approximate solution of ODE and system of linear equation.
24	CS-241	Data Structures using and Algorithms-II	<p>On completion of this course students will be able to</p> <ol style="list-style-type: none"> 1. Implementation of different data structures efficiently 2. Usage of well-organized data structures to handle large amount of data 3. Usage of appropriate data structures for problem solving.

25	CS-242	Computer Network-I	<ol style="list-style-type: none"> 1. Have a good understanding of the OSI and TCP/IP Reference Models and in particular have a good knowledge of Layers 2. Understand the working of various protocols. 3. Analyze the requirements for a given organizational structure and select the most 4. appropriate networking architecture and technologies
26	ELC-241	Embedded System Design	<ol style="list-style-type: none"> 1. To understand the difference between general computing and the Embedded systems 2. To know the fundamentals of embedded systems 3. Understand the use of Single Board Computer (Such as Raspberry Pi) for an embedded system application. 4. Familiar with the programming environment to develop embedded systems and their interfaces with peripheral devices. 5. To develop familiarity with tools used to developing an embedded environment.
27	ELC-242	Wireless Communication and Internet of Things	<ol style="list-style-type: none"> 1. Know working of wireless technologies such as Mobile communication, GSM, GPRS 2. Become familiar with 3G and 4G Cellular Network Technologies for Data Connections. 3. Understand working principles of short-range communication application 4. Get introduced to upcoming technology of Internet of Things



			5. Explore the m selves and develop new Iota based applications
28	MTC-241	Computational Geometry	<ol style="list-style-type: none"> 1. Demonstrate knowledge of key notions and principles related to 2 dimensional transformations. Analyze problem and compute the appropriate solution 2. Demonstrate knowledge of key notions and principles related to 3 dimensional transformations. Analyze problem and compute the appropriate solution 3. State and apply different types of projections on an object. 4. Compute points of standard curves using recursive formulae. Construct Bezier curves of order 2 and order 3.
29	MTC-242	Operation Research	<ol style="list-style-type: none"> 1. Understanding the concept of modeling with linear programming and simplex method. 2. Understanding the concept of duality of linear programming problems. 3. Understanding the concept of assignment models. 4. Understanding the concept of transportation models

30	CS-351	Operating System-I	<ol style="list-style-type: none"> 1. Introductions of Operating System. 2. Processes and Thread Scheduling by operating system. 3. Process Scheduling by operating System 4. Synchronization in process and threads by operating System. 5. Memory management by operating system using with the help of various schemes.
31	CS-352	Computer Networks-II	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1. Student will understand the different protocols of Application layer. 2. Develop understanding of technical aspect of Multimedia Systems & Develop various Multimedia Systems applicable in real time. 3. Identify information security goals & Understand, compare and apply cryptographic techniques 4. For data security.
32	CS-353	Web Technologies - I	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1. Understand how to develop dynamic and interactive Web Page 2. Getting Knowledge regarding Functions & Strings 3. Develop Web Technologies Program using Arrays

			<p>4.Handle Files and Databases Program</p> <p>5.Handling Email in PHP.</p>
33	CS-354	Foundations of Data Science	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1. Perform Exploratory Data Analysis & Obtain, clean/process, and transform data. 2. Demonstrate proficiency with statistical analysis of data. 3. Detect and diagnose common data issues, such as missing values, special values, Outliers, inconsistencies, and localization. 4. Present results using data visualization techniques.
34	CS-355	Object Oriented Programming using Java - I	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1.To understand the basic concept of Object Oriented Concept 2. Understand the concept of classes, object, packages And Collections. 3. To develop Java Program using Inheritance & Interface Concept. 4. Handle Exception Handling & File Handling Program. 5. To develop GUI based application.

35	CS-356	Theoretical Computer Science	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1. Understand the use of automata during language design. 2. Relate various automata and Languages. 3.Contextfree Grammar's & Languages 4.Pushdown Automata 5.Turining Machine
36	CS-3510	Python Programming	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1. Develop logic for problem solving 2. Determine the methods to create and develop Python programs by utilizing the data 3. structures like lists, dictionaries, tuples and sets. 4. To be familiar about the basic constructs of programming such as data, operations, Conditions, loops, functions etc.
37	CS-3511	Block chain Technology	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1. Learn the fundamentals of Block Chain Technology. 2. Learn Block chain programming

			3. Basic knowledge of Smart Contracts and how they function.
38	CS-361	Operating Systems - II	<ol style="list-style-type: none"> 1. Management of deadlocks 2. File System by operating system 3. Scheduling storage or disk for processes 4. Distributed Operating System and its architecture 5. Extended features in mobile OS.
39	CS-362	Software Testing	<p>To understand various software testing methods and strategies.</p> <ol style="list-style-type: none"> 1. To understand a variety of software metrics, and identify defects and managing 2. Software Testing Strategies & Techniques. 3. To design test cases and test plans, review reports of testing for qualitative Software. 4. To understand latest testing methods used in the software industries & Testing Web Application
40	CS-363	Web Technologies - II	<p>On completion of the course, student will be able to-</p> <ol style="list-style-type: none"> 1. Build dynamic website. 2. XML 3. JavaScript & JQuery 4. Ajax 5. Using MVC based framework easy to design and handling the errors in dynamic website.
41	CS-364	Data Analytic	<p>On completion of the course, student will be able to-</p> <ol style="list-style-type: none"> 1. Use appropriate models of analysis, assess the quality of input, and derive insight from Results. 2. Analyze data, choose relevant models and algorithms for respective applications 3. Understand different data mining techniques like classification, prediction, clustering and association rule mining 4. Apply modeling and data analysis techniques to the solution of real world business problems.
42	CS-365	Object Oriented Programming using Java - II	<p>On completion of the course, student will be able to-</p> <ol style="list-style-type: none"> 1. Students will be able to learn collection framework like lists, sets, maps, interfaces. 2. Students will be able to learn multithreaded programs, lifecycle of thread. 3. To access open database through Java programs using Java Data Base Connectivity (JDBC) and develop the application. 4. Understand and Create dynamic web pages, using Servlet and JSP. 5. Work with basics of framework to develop secure web applications



43	CS-366	Compiler Construction	<p>On completion of the course, student will be able to–</p> <ol style="list-style-type: none"> 1. Learn the conversion code written in source language to machine language. 2. Understand tools like LEX and YACC. 3. Understand the process of scanning and parsing of source code. 4. Syntax Directed Definition 5. Code Generalization and optimization.
44	CS-3610	Software Testing Tools	<p>To understand various software testing methods and strategies.</p> <ol style="list-style-type: none"> 1. To understand a variety of software metrics and identify defects and managing those defects for improvement in quality for given Software. 2. To design test cases and test plans, review reports of testing for qualitative Software. 3. To understand latest testing tools used in the software Industries.
45	CS-3611	Project	<ol style="list-style-type: none"> 1 Students Can Work Together as team Work 2 Students Can Develop their own Software by using Php or Java 3. Students can work independently throughout the project



(Signature)

PRINCIPAL

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