

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.
- Learning Outcomes of the Programs and Courses are displayed on departmental notice board. Soft Copy of Curriculum and Learning Outcomes of Programs and Courses are also uploaded on the website of the college for reference.



K. K. Wagh Education Society's Karmaveer Kakasaheb Wagh Arts, Commerce, Science & Computer Science College, Chandori, Tal- Niphad, Dist- Nashik-422201, (Affiliated to Savitribai Phule Pune University) 0250-233439, Fax 02550-233438 ID No. (PU/NS/ACO79/2003) Email: principal-seniorchandori@kkwagh.edu.in

Department of English

Program B.A. English

Program Outcomes, Program Specific Outcomes and Course Outcomes.

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

Program Outcomes			
PO1	Disciplinary knowledge: Demonstrate comprehensive knowledge and understanding of one or		
101	more disciplines that form a part of an undergraduate programme of study.		
	Critical thinking: Take informed action after identifying the assumption that frame our		
PO2	thinking and actions, checking out the degree to which these assumptions are accurate and valid,		
102	•	as and decisions (intellectual, organizational and personal) from different	
	perspectives.		
PO3		different value systems including your own, understand the moral ecisions, and accept responsibility for them.	
	Self-directed and Lif	e-long learning: Acquire knowledge and skills, including 'learning how	
	-	essary for participating in learning activities throughout life, through self-	
PO4	-	d learning aimed at personal development, meeting economic, social and	
	_	nd adapting to changing trades and demands of work place through	
	knowledge/skill devel		
PO5	Effective Citizenship: Execute their duties and responsibilities as citizens successfully by		
	being a part of larger of		
DOC		stainability: Become aware about the issues related to environment and	
PO6	ecological elements an	be implemented for its sustainability through the study of texts with	
	ecological elements al	Program Specific Outcomes	
PSO1	Understand the evolut	ion of criticism and its application in language and literature.	
PSO2		t pieces of prose and poetry in English literature.	
		English language to improve skills in Listening, Speaking, Reading and	
PSO3	Writing.	English language to improve skins in Eistening, speaking, Reading and	
		Course Outcomes	
Class	Course	Outcomes	
	Compulsory English	1. Expose to the best examples of prose and poetry in English so that they realized the beauty and communicative power of English.	
		2. Acquire human values and developed their character as responsible	
		citizens.	
		3. Develop the ability to appreciate ideas and think critically.	
FYBA		4. Enhance employability by developing their linguistic competence	
		and communicative skills.	
	Optional English (General Paper-I)	1. Expose to the basics of literature and language and developed an	
		integrated view about language and literature in them.	
		2. Familiarize with minor forms of literature in English and help them	
		to appreciate the creative use of language in literature.	

		3. Introduce to the basics of phonology of English so that they can pronounce better and speak English correctly.
		4. Prepare to go for detailed study and understanding of literature and
		language.5. Enhance their job potential by improving their language skills.
-		1. Familiarize the students with the recent developments in the Indian
	Indian Economic Environment (G-1)	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.
		1. Familiarize with Marathi literature, language and culture.
		2. Take interest in Marathi literature.
		3. Develop the literary taste of students
		4. Cultivate ability to appreciate literature.
	Marathi (G-1)	5. Connect literature to real life experience.
		6. Understand various branches and movements of Marathi literature.
		7. Develop linguistic skills to meet the requirements in the age of
		globalization.
		8. Understand the importance of language in personality development.
		1. Develop the geographical maturity in their current and future
	Physical Geography	courses.
	Sem. I & Human	2. Develop theoretical, applied and computational skills.
	Geography	3. Develop the geographical maturity in their current and future
	Sem-II (G-I)	courses.
		4. Develop theoretical, applied and computational skills.
	Introduction to	1. Know the historical background and nature of Indian constitution
	Indian constitution SEM-I	2. Aware about Fundamental rights duties & Directive Principals
		3. Understand Indian Federal System.
	Introduction to	1. Know the Indian government and Political system.
	Indian constitution SEM-II	2. Understand Indian Judiciary System.
		3. Become aware about Indian Electoral System
		1.Understand the basic psychological processes and their applications
		in day to day life
	SEM-1	2. Develop the ability to evaluate cognitive processes, learning and
	Foundations of	memory of an individual.
	Psychology (G1)	3. Understand the importance of motivation and emotion of the
		individual.
		4. Understand the personality and intelligence of the individuals by
-		developing their psychological processes and abstract potentials.
		1. Understand the basics of social psychology.
	SEM-2 Introduction to Social Psychology	2. Understand the nature of self, concept of attitude and prejudice of the
		individual.
		3. Access the interactional processes, love and aggression in our day to
	(G1)	day life.
ŀ		4. Understand group dynamics and individual in the social world.
	Early India G-I	1. Student should have the brief introduction of Ancient Indian
	SEM-I & II	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 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.
		1. Develop competence among the students for self-learning.
		2. Familiarize with excellent pieces of prose and poetry in English so
		that they realize the beauty and communicative power of English.
	Compulsory English	3. Develop their interest in reading literary pieces.
		4. Expose to native cultural experiences and situations in order to
		develop humane values and social awareness.
		5. Develop overall linguistic competence and communicative skills.
		1. Expose them to the basics of short story as a literary form.
		2. Familiarize them with different types of short stories in English.
	General English:	3. Understand the literary merit, beauty and creative use of language.
	Study of English	4. Introduce some advanced units of language so that they become
	Language and	aware of the technical aspects and their practical usage.
	Literature (G-II)	5. Prepare to go for detailed study and understanding of literature and language.
		6. Develop integrated view about language and literature in them.
		1. Acquaint and familiarize them with the terminology in Drama
SYBA		Criticism (i.e. the terms used in Critical Analysis and Appreciation of
SIDA		Drama).
	Appreciating Drama	2. Encourage to make a detailed study of a few sample masterpieces of
	S-I	English poetry.
		3. Develop interest to appreciate and analyze drama in dependently.
		4. Enhance awareness in the aesthetics of Drama and to empower them
		to evaluate drama independently.
	Special Derer (S	1. Acquaint and familiarized with the terminology in poetry Criticism
	Special Paper- (S-	(i.e. the terms used in Critical Analysis and Appreciation of poetry).
	II) Appreciating	2. Encourage to make a detailed study of a few sample masterpieces of English poetry.
	Poetry	English poetry. 3. Enhance awareness in the aesthetics of poetry and to empower them
		to evaluate poetry independently.
		1. To understand fundamentals of modern financial system.
	Indian Einancial	· · · · · · · · · · · · · · · · · · ·
	Indian Financial System Sem. I & II (G-II)	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.
	Adhunik Marathi	1. Familiarize with standard writing practices.
		2. Develop the skill of translation.
	Sahity aani Upyojit	3. Understand aspects of Biography and Autobiography.
	Marathi (G-II)	4. Develop ability to appreciate and evaluate selected Biographies and
		Autobiographies in modern Marathi literature.
F		1. Become aware about dynamic environment among the student.
		2. Acquaint with fundamental concepts of environment geography for
	Environment	development in different areas.
	Geography	3. Integrate various factors of Environment and dynamic aspect of
	(G-II)	Environmental geography.
		4. Become aware about the problems of environment, their utilization
F		and conservation in the view of sustainable development
		1. Understand Political Science as a discipline.
		2. Understand approaches of Political Science.
	Introduction to	3. Become aware the concepts like State, Market, Civil Society and
	Political Science	Democracy.
	(G-II)	1. Become aware about Political Values like liberty, equality and
	()	justice, Rights.
		2. Understand Ideologies of Political Science.
-		3. Become aware about International Organizations.
		1 Understand health psychology and arrive at the introduction to the
		role of psychology in health
		2. Understand the nature of stress and coping
		3. Understand various factors related to health and diseases.
	Health Psychology &	4. Understand quality of life and promoting the good health.
	Positive Psychology (G-II)	1. Understand how the positive psychology as the science of happiness human strengths, positive aspects of human behavior and 'psychology of well-being.'
		2. How we lead our lives, find happiness and satisfaction, and face life's challenges.
		3. How positive psychology has become an evolving mosaic of
		research and theory from many different areas of psychology
		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.
	History of Maratha (G-II)	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
		1 3 They will be acculatified with the an of thoromacy in the theorem

		4. It will help to enrich the knowledge of the administrative skills and
		profundity of diplomacy
		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
	Compulsory English	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-	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.
	III): Advanced	3. Understand creative uses of language in Indian English Poetry.
	Study of English	4. Introduce to some advanced areas of language study.
	Language and	5. Prepare to go for detailed study and understanding of literature and
	Literature	Language.
		6. Develope integrated view about language and literature among the students.
		1. Familiarize to the basics of novel as a literary form.
	Special Paper III	2. Expose the historical development and nature of novel.
	(S-3):	3. Aware of different types and aspects of novel.
	Appreciating	4. Develop literary sensibility and sense of cultural diversity in
	Novel	students.
		5. Expose to the best examples of novel.
		1. Introduce the basics of literary criticism.
	Special Paper IV (S-	2. Make aware of the nature and historical development of criticism.
	4): Introduction to	3. Familiarize with the significant critical approaches and terms.
		4. Encourage to interpret literary works in the light of the critical
	Literary Criticism	Approaches.
		5. Develope aptitude for critical analysis.
TYBA		1. The students will be familiar with the concept of economic
110/1		development & growth.
	Economic	2. The students will be the theories & approaches to economic
	Development &	development.
	Planning G-III	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
	Regional Geography	1. Acquaint with geography of our Nation.
		2. Become aware of the magnitude of problems and Prospects at
		National level.
	of India (G-III)	3. Understand the inter relationship between the subject and the
		society.
		4. Understand the recent trends in regional studies.
		1. Understand Marathi language and literature
	A dhumit Manathi	2. Introduce various movements in modern Marathi literature
	Adhunik Marathi Sabity ani Unyojit	3. Develop interest in modern Marathi literature.
	Sahity ani Upyojit Marathi (G-III)	4. introduce to the media and Skills for developing media for
		newspapers, radio and TV can be developed.
		5. Understand of life develops through study of literature.
		1. Know the historical background of Indian Local Self Government.
	T. 10.10	2. Know the importance of democratic decentralization.
	Local Self	3. Become aware about development of Local Self Government.in
	Government in Maharashtra (G-III)	Maharashtra.
		4. Understand the nature and role of Local Self Governments in
		Maharashtra

	5. Become a politician in Local Self Governments.
	1. Understand the emergence of industrial and organizational
	psychology.
	2. Familiarize with the work done in industrial and organizational
Industrial and	psychology
Organizational Psychology	3. Understand the significance of training, performance appraisal and
(G-III)	organizational psychology.
	4. Know the importance of engineering psychology.
	5. Become aware of various functions of industrial psychology.
	6. Become aware about the role of psychological factors & processes at
	work.
	1. Students have understood the relation between Modernity and
	Nationalism and its implications.
History of the world in	2. Students have understood the process of colonialism in different part
History of the world in 20th century (G-III)	of world.
20th Century (O-III)	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



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Department of Economics

Program B.A. Economics

Program Outcomes, Program Specific Outcomes and Course Outcomes.

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101	or more disciplines that form a part of an undergraduate programme of study.		
	Critical thinking: Take informed action after identifying the assumption that frame our		
PO2	thinking and actions, checking out the degree to which these assumptions are accurate and		
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	different perspectives.		
PO3	6	different value systems including your own, understand the moral	
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		e-long learning: Acquire knowledge and skills, including 'learning how	
		ssary for participating in learning activities throughout life, through self-	
PO4		d learning aimed at personal development, meeting economic, social and	
		nd adapting to changing trades and demands of work place through	
	knowledge/skill development/reskilling.		
PO5		Execute their duties and responsibilities as citizens successfully by	
	being a part of larger		
	Environment and Sustainability: Become aware about the issues related to environment and		
PO6	the steps needed to be implemented for its sustainability through the study of texts with		
	ecological elements an		
		Program Specific Outcomes	
PSO1	-	cepts, laws and theories related to the economic behavior of the human	
	being		
PSO2	Inculcate the economi		
PSO3	Apply economic analy		
		Course Outcomes	
Class	Course	Outcomes	
		1. Expose to the best examples of prose and poetry in English so that	
		they realized the beauty and communicative power of English.	
		2. Acquire human values and developed their character as responsible	
	Compulsory English	citizens.	
FYBA		3. Develop the ability to appreciate ideas and think critically.	
		4. Enhance employability by developing their linguistic competence	
		and communicative skills.	
	Optional English	1. Expose to the basics of literature and language and developed an	
	г	integrated view about language and literature in them.	

(General Paper-I)	
· · · · · · · · · · · · · · · · · · ·	2. Familiarize with minor forms of literature in English and help them to appreciate the creative use of language in literature.
	3. Introduce to the basics of phonology of English so that they can
	pronounce better and speak English correctly.
	4. Prepare to go for detailed study and understanding of literature and
	language.
	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.
Indian Economic	3. Develop an understanding of the economic environment and the
Environment (G-1)	factors affecting the economic environment.
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	economies.
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	1. Familiarize with Marathi literature, language and culture.
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	7. Develop linguistic skills to meet the requirements in the age of
	globalization.
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	development.
	1. Develop the geographical maturity in their current and future
Physical Geography	courses.
Sem. I & Human	2. Develop theoretical, applied and computational skills.
Geography	3. Develop the geographical maturity in their current and future
Sem-II	courses.
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Introduction to	1. Know the historical background and nature of Indian constitution
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Indian constitution SEM-I	 Aware about Fundamental rights duties & Directive Principals Understand Indian Federal System.
Indian constitution SEM-I Introduction to	 Aware about Fundamental rights duties & Directive Principals Understand Indian Federal System. Know the Indian government and Political system.
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		1. Student should have the brief introduction of Ancient Indian History.
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	System G-II	financial system.
		2. To enhance the students the knowledge of various financial and non-financial institutions.
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		for better financial decision making.
	Micro Economics	1. The students will be familiar about the scope of Economics and the
	S-1	employability. 2. Through the study of micro Economics the student will gain the
		<i>knowledge economic concept.</i>
		know leage 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.
		1. To develop an understanding of basic theories of micro economics
		and their applications.
		2. To demonstrate that the theories discussed in class will usually be
		applied to real-life situations.
		3. To help the students to prepare for varied competitive
		examinations.
		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
	Macro Economics	policies, full employment and growth.
	Sem. I & II	4. Help the students to prepare for varied competitive examination.
	S-II	1. The students will be familiar the choice base credit system (CBCS)
		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.
		1. Familiarize with standard writing practices.
	Adhunik Marathi	2. Develop the skill of translation.
	Sahity aani Upyojit	3. Understand aspects of Biography and Autobiography.
	Marathi (G-II)	4. Develop ability to appreciate and evaluate selected Biographies
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		2. Acquaint with fundamental concepts of environment geography for
	Environment	development in different areas.
	Geography	3. Integrate various factors of Environment and dynamic aspect of
	G-II	Environmental geography.
	0-11	4. Become aware about the problems of environment, their
		utilization and conservation in the view of sustainable development
		1. Understand Political Science as a discipline.
		2. Understand approaches of Political Science.
		3. Become aware the concepts like State, Market, Civil Society and
	Introduction to	Democracy.
	Political Science	1. Become aware about Political Values like liberty, equality and
	G-II	justice, Rights.
		2. Understand Ideologies of Political Science.
		3. Become aware about International Organizations.
	<u> </u>	1 Understand health psychology and arrive at the introduction to the
		role of psychology in health.
		2. Understand the nature of stress and coping
	Health Psychology &	3. Understand various factors related to health and diseases.
	Positive Psychology (G-II)	4. Understand quality of life and promoting the good health.
		1. Understand quarty of file and promoting the good heard.
		happiness, human strengths, positive aspects of human behavior and
		'psychology of well-being.'
	I	

		2. How we lead our lives, find happiness and satisfaction, and face
		life's challenges.
		3. How positive psychology has become an evolving mosaic of
		research and theory from many different areas of psychology
		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
	History of Maratha	the Marathas.
	(G-II)	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
		1. Introduce them to the best uses of language in literature.
		2. Familiarize with the communicative power of English.
	Compulsory English	3. Become competent users of English in real life situations
	Compulsory English	4. Expose to varied cultural experiences through literature.
		5. Contribute to their overall personality development by improving
		their communicative and soft skills
		1. The students will be familiar with the concept of economic
		development & growth.
	Economic	2. The students will be the theories & approaches to economic
	Development &	development.
	Planning G-III	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
TYBA		the economy.3. Expose to rationale of recent changes in the export import polices
		of India.
		4. Understand the concept of globalization and liberalization
		1. Understand the role of Government an economy
		2. To familiarize the students the basic problems of use of resources,
		distribution of income
	Public Finance S-III	3. To understand the student tax system, expenditure programs and
	Fublic Finance S-III	debt issues
		4. To enhance the student existence of externalities, concern for
		adjustment in the distribution of income and wealth.
	Can anal En all' 1. (C	1. Expose to some of the best samples of Indian English Poetry.
	General English (G-	2. Know to see how Indian English poetry expresses the ethos and
	III): Advanced	culture of India.
	Study of English	3. Understand creative uses of language in Indian English Poetry.
	Language and Literature	4. Introduce to some advanced areas of language study.
		5. Prepare to go for detailed study and understanding of literature

		and Language.
		6. Develope integrated view about language and literature among the students.
		1. Acquaint with geography of our Nation.
		2. Become aware of the magnitude of problems and Prospects at
	Regional Geography	National level.
	of India (G-III)	3. Understand the inter relationship between the subject and the society.
		4. Understand the recent trends in regional studies.
		1. Understand Marathi language and literature
		2. Introduce various movements in modern Marathi literature
	Adhunik Marathi	3. Develop interest in modern Marathi literature.
	Sahity ani Upyojit	4. introduce to the media and Skills for developing media for
	Marathi (G-III)	newspapers, radio and TV can be developed.
		5. Understand of life develops through study of literature.
		1. Know the historical background of Indian Local Self Government.
		2. Know the importance of democratic decentralization.
	Local Self	3. Become aware about development of Local Self Government.in
	Government in	Maharashtra.
	Maharashtra (G-III)	4. Understand the nature and role of Local Self Governments in
		Maharashtra
		5. Become a politician in Local Self Governments.
		1. Understand the emergence of industrial and organizational
		psychology.
		2.Familiarize with the work done in industrial and organizational
	Industrial and	psychology
	Organizational	3. Understand the significance of training, performance appraisal and
	Psychology	organizational psychology.
	(G-III)	4. Know the importance of engineering psychology.
		5. Become aware of various functions of industrial psychology.
		6. Become aware about the role of psychological factors & processes
		at work.
		1. Students have understood the relation between Modernity and
		Nationalism and its implications.
		2. Students have understood the process of colonialism in different
	History of the world in 20th century (G-III)	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



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Department of Marathi

Program: B.A. Marathi

Program Outcomes, Program Specific Outcomes and Course Outcomes.

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

Program Outcomes			
PO1		ge: Demonstrate comprehensive knowledge and understanding of one	
101	or more disciplines that form a part of an undergraduate programme of study.		
PO2		ke informed action after identifying the assumption that frame our	
	thinking and actions, checking out the degree to which these assumptions are accurate and		
102		r ideas and decisions (intellectual, organizational and personal) from	
	different perspectives.		
PO3		fferent value systems including your own, understand the moral	
		isions, and accept responsibility for them.	
		long learning: Acquire knowledge and skills, including 'learning how	
PO4	-	ary for participating in learning activities throughout life, through self-	
P04		learning aimed at personal development, meeting economic, social and adapting to changing trades and demands of work place through	
	knowledge/skill develo		
		Execute their duties and responsibilities as citizens successfully by	
PO5	being a part of larger co		
	Environment and Sustainability: Become aware about the issues related to environment and		
PO6	the steps needed to be implemented for its sustainability through the study of texts with		
	ecological elements and dimensions.		
		Program Specific Outcomes	
PSO1	साहित्याचे विश्लेषण करता येईल.		
PSO2	साहित्याची समीक्षा करता	येईल.	
		Course Outcomes	
Class	Course	Outcomes	
		1. Expose to the best examples of prose and poetry in English so	
		that they realized the beauty and communicative power of English.	
	Compulsory English	2. Acquire human values and developed their character as	
		responsible citizens.	
FYBA		3. Develop the ability to appreciate ideas and think critically.	
		4. Enhance employability by developing their linguistic competence	
		and communicative skills.	
	Optional English (General Paper-I)	1. Expose to the basics of literature and language and developed an integrated view about language and literature in them.	
	(General Paper-I)	2. Familiarize with minor forms of literature in English and help	
L		2. Familiarize with minor forms of interature in English and help	

them to appreciate the creative use of language in	1
	literature.
3. Introduce to the basics of phonology of English	so that they can
pronounce better and speak English correctly.	
4. Prepare to go for detailed study and understand	ing of literature
and language.	
1. Familiarize the students with the recent develop	
Indian Economy and understand the background of	of the Indian
Economy.	
2. Understand and comprehend the current busines	
agricultural scenario and other sectorial growth in	the Indian
Indian Economic context.	
Environment -G-1 3. Develop an understanding of the economic envi	ironment and the
factors affecting the economic environment.	
4. Compare and contrast the Indian Economy with	1 other world
economies.	
5. Discuss and debate the various issues and challe	enges facing the
Indian Economic Environment.	<u> </u>
6. Help the students to prepare for varied competit	
1. Familiarize with Marathi literature, language an	nd culture.
2. Take interest in Marathi literature.	
3. Develop the literary taste of students	
4. Cultivate ability to appreciate literature.	
5. Connect literature to real life experience.	
Marathi G-I 6. Understand various branches and movements of	f Marathi
literature.	
7. Develop linguistic skills to meet the requirement	nts in the age of
globalization.	
8. Understand the importance of language in perso	onality
development.	•
1. Develop the geographical maturity in their curre	ent and future
Physical Geography courses.	
Sem. I & Human 2. Develop theoretical, applied and computational	l skills.
Geography 3. Develop the geographical maturity in their current of the second s	
Sem-II courses.	
4. Develop theoretical, applied and computational	l skills.
Introduction to Indian 1. Know the historical background and nature of I	
constitution 2. Aware about Fundamental rights duties & Direct	
SEM-I 3. Understand Indian Federal System.	
Introduction to Indian 1. Know the Indian government and Political system.	em
constitution 2. Understand Indian Judiciary System.	
	ad the aire
1.Understand the basic psychological processes an	id their
applications in day to day life	
SEM-1 2. Develop the ability to evaluate cognitive proces	sses, learning and
Foundations of memory of an individual.	
Psychology (G1) 3. Understand the importance of motivation and en	motion of the
individual.	
4. Understand the personality and intelligence of t	•
developing their psychological processes and abst	ract potentials.
1. Understand the basics of social psychology.	
SEM-2 Introduction to Social	le and prejudice of
Introduction to Social Psychology (G1)the individual.3. Access the interactional processes, love and agg	gression in our

		4. Understand group dynamics and individual in the social world.
		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
	Early India G-I	developments in early Indian history.
	SEM-I & II	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 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.
		1. Develop competence among the students for self-learning.
		2. Familiarize with excellent pieces of prose and poetry in English
		so that they realize the beauty and communicative power of
		English.
	Compulsory English	3. Develop their interest in reading literary pieces.
		4. Expose to native cultural experiences and situations in order to
		develop humane values and social awareness.
		5. Develop overall linguistic competence and communicative skills.
		1.Expose them to the basics of short story as a literary form.
	General English: Study of English Language and Literature (G-II)	2. Familiarize them with different types of short stories in English.
		3. Understand the literary merit, beauty and creative use of
		language.
		4. Introduce some advanced units of language so that they become
		aware of the technical aspects and their practical usage.
		5. Prepare to go for detailed study and understanding of literature
SYBA		and language.
		6. Develop integrated view about language and literature in them.
		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
	Indian Einanaial	1. To understand the role of the Reserve Bank of India in Indian
	Indian Financial System G-II	financial system.
		2. To enhance the students the knowledge of various financial and
		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.
1		
		1. Familiarize with standard writing practices.

Adhunik Marathi	2. Develop the skill of translation.
Sahity aani Upyojit	3. Understand aspects of Biography and Autobiography.
	4. Develop ability to appreciate and evaluate selected Biographies
Marathi (G-II)	and Autobiographies in modern Marathi literature.
Manadh' Calitanad'i	1. Provide basic knowledge of Marathi literature.
Marathi Sahityatil	2. Familiarize with literary classics of different historical periods.
Vividh Sahitya prakar (Types of Literature)	3. Create perspectives to analyze, evaluate and appreciate literary
(Types of Literature) S-I	texts
	4. Develop ability for in-depth study of literature.
	1. Study the history of Marathi literature.
	2. Learn the concept of literary history.
Arvachin Marathi	3. Familiarize with the nature, source and types of Marathi literature
Wangmayacha	from 1818to 1920.
Abhayas (1818- 1920) S-II	4. Familiarize with the major Marathi writers and their works from 1818 to 1920.
(History of Ancient	5. Familiarize with various movements in Modern Marathi
Marathi Literature)	literature.
,	6. Familiarize with media.
	7. Develop skill in preparing materials for media including
	Newspaper, Radio and TV.
	1. Become aware about dynamic environment among the student.
	2. Acquaint with fundamental concepts of environment geography
Environment	for development in different areas.
Geography	3. Integrate various factors of Environment and dynamic aspect of
G-II	Environmental geography.
	4. Become aware about the problems of environment, their
	utilization and conservation in the view of sustainable development
	1. Understand Political Science as a discipline.
	2. Understand approaches of Political Science.
Introduction to	3. Become aware the concepts like State, Market, Civil Society and
Political Science	Democracy.
G-2	1. Become aware about Political Values like liberty, equality and justice, Rights.
	2. Understand Ideologies of Political Science.
	3. Become aware about International Organizations.
	1 Understand health psychology and arrive at the introduction to th
	role of psychology in health.
	2. Understand the nature of stress and coping
	3. Understand various factors related to health and diseases.
Hoolth Doughals and	4. Understand quality of life and promoting the good health.
Health Psychology & Positive Psychology	1. Understand how the positive psychology as the science of
(G-II)	happiness, human strengths, positive aspects of human behavior ar
(~,	'psychology of well-being.'
	2. How we lead our lives, find happiness and satisfaction, and face
	life's challenges.
	3. How positive psychology has become an evolving mosaic of
	research and theory from many different areas of psychology
	1. Student will develop the ability to analyses sources for Maratha
History of Maratha	History.
(G-II)	2. Student will learn significance of regional history and political foundation of the region
	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
		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
	Compulsory English	4. Expose to varied cultural experiences through literature.
		5. Contribute to their overall personality development by improving
		their communicative and soft skills
		1. The students will be familiar with the concept of economic
		development & growth.
		2. The students will be the theories & approaches to economic
	Economic	development.
	Development &	3. The students will be exposed to the indicators of economic
	Planning (G-III)	growth & development
		4. The students will enable to understand the concept of developed
		& developing countries
		1. Understand Marathi language and literature
	A. Ilean 'I. Manualla' Califer	2. Introduce various movements in modern Marathi literature
	Adhunik Marathi Sahity	3. Develop interest in modern Marathi literature.
	ani Upyojit Marathi (G-III)	4. introduce to the media and Skills for developing media for
		newspapers, radio and TV can be developed.
		5. Understand of life develops through study of literature.
		1. Understand the nature and function of literature.
TYBA	Sahityavichar (Literary Criticism) S- III	2. Understand the nature of the process of literary creation and the
		concept of literary genus.
		3. Analyze the process of literary appreciation.
		4. Provide knowledge of some fundamental concepts in literary
		appreciation.
	Bhashavidnyan: Varnantmak Ani	1. Understand the original development of Marathi language in the
		light of linguistic theories.
	Aitihasikn S-IV	2. Understand the evolution of Marathi language.
		3. Study the basic features of Marathi language.
		4. Familiarize with historical and descriptive linguistics.
	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.
	General English (G- III): Advanced Study	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.
		5. Onderstand ereative uses of fanguage in mutan English roelly.

	of English Language	4. Introduce to some advanced areas of language study.
	and Literature	5. Prepare to go for detailed study and understanding of literature
		and Language.
		6. Develope integrated view about language and literature among
		the students.
		1. Know the historical background of Indian Local Self
		Government.
	L 1 C - 16	2. Know the importance of democratic decentralization.
	Local Self	3. Become aware about development of Local Self Government.in
	Government in	Maharashtra.
	Maharashtra (G-III)	4. Understand the nature and role of Local Self Governments in
		Maharashtra
		5. Become a politician in Local Self Governments.
		1. Understand the emergence of industrial and organizational
		psychology.
		2.Familiarize with the work done in industrial and organizational
	Industrial and	psychology
	Organizational	3. Understand the significance of training, performance appraisal
	Psychology	and organizational psychology.
	(G-III)	4. Know the importance of engineering psychology.
		5. Become aware of various functions of industrial psychology.
		6. Become aware about the role of psychological factors &
		processes at work.
-		1. Students have understood the relation between Modernity and
		•
		Nationalism and its implications.
	History of the world in	2. Students have understood the process of colonialism in different
	20th century (G-III)	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



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Department of Geography

Program B. A. Geography

Program Outcomes, Program Specific Outcomes and Course Outcomes.

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

		Program Outcomes	
PO1	Disciplinary knowledge: Demonstrate comprehensive knowledge and understanding of one		
roi	or more disciplines that form a part of an undergraduate programme of study.		
	0	ke informed action after identifying the assumption that frame our	
PO2	0	hecking out the degree to which these assumptions are accurate and	
	-	ir ideas and decisions (intellectual, organizational and personal) from	
	different perspectives.		
PO3	Ū.	fferent value systems including your own, understand the moral	
105	,	isions, and accept responsibility for them.	
		long learning: Acquire knowledge and skills, including 'learning how	
		ary for participating in learning activities throughout life, through self-	
PO4	-	learning aimed at personal development, meeting economic, social and	
	•	adapting to changing trades and demands of work place through	
	knowledge/skill develop		
PO5 Effective Citizenship: Execute their duties and responsibilities as citizen		Execute their duties and responsibilities as citizens successfully by	
	being a part of larger co		
DOC	Environment and Sustainability: Become aware about the issues related to environment and		
PO6	the steps needed to be implemented for its sustainability through the study of texts with ecological elements and dimensions.		
	ecological elements and		
		Program Specific Outcomes	
PSO1	Demonstrate and understanding of principles and theories of Geography. This include		
	Geomorphology, Economic Geography, Human Geography, Agriculture Geography.		
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.	
	a	Course Outcomes	
Class	Course	Outcomes	
	Compulsory English	1. Expose to the best examples of prose and poetry in English so	
		that they realized the beauty and communicative power of English.	
FYBA		2. Acquire human values and developed their character as	
	r	responsible citizens.	
		3. Develop the ability to appreciate ideas and think critically.	
		4. Enhance employability by developing their linguistic competence	

	and communicative skills.
	1. Expose to the basics of literature and language and developed an
	integrated view about language and literature in them.
Optional English	2. Familiarize with minor forms of literature in English and help
Optional English	them to appreciate the creative use of language in literature.
(General Paper-I)	3. Introduce to the basics of phonology of English so that they can
	pronounce better and speak English correctly.
	4. Prepare to go for detailed study and understanding of literature
	and language.
	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
Indian Economic	context.
Environment -G-1	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.
	1. Familiarize with Marathi literature, language and culture.
	2. Take interest in Marathi literature.
	3. Develop the literary taste of students
	4. Cultivate ability to appreciate literature.
	5. Connect literature to real life experience.
Marathi G-I	6. Understand various branches and movements of Marathi
	literature.
	7. Develop linguistic skills to meet the requirements in the age of
	globalization.
	8. Understand the importance of language in personality
	development.
	1. Develop the geographical maturity in their current and future
Physical Geography	courses.
Sem. I & Human	2. Develop theoretical, applied and computational skills.
Geography	3. Develop the geographical maturity in their current and future
Sem-II	courses.
Belli H	4. Develop theoretical, applied and computational skills.
Introduction to Indian	1. Know the historical background and nature of Indian constitution
constitution	2. Aware about Fundamental rights duties & Directive Principals
SEM-I	3. Understand Indian Federal System.
Introduction to Indian	
	1. Know the Indian government and Political system.
constitution	2. Understand Indian Judiciary System.
SEM-II	3. Become aware about Indian Electoral System
	1.Understand the basic psychological processes and their
	applications in day to day life
SEM-1	2. Develop the ability to evaluate cognitive processes, learning and
Foundations of	memory of an individual.
Psychology (G1)	3. Understand the importance of motivation and emotion of the
	individual.
	4. Understand the personality and intelligence of the individuals by
	developing their psychological processes and abstract potentials.1. Understand the basics of social psychology.

	Introduction to Social Psychology (G1)	2. Understand the nature of self, concept of attitude and prejudice of the individual.
		3. Access the interactional processes, love and aggression in our day to day life.
		4. Understand group dynamics and individual in the social world.
		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
	Early India G-I SEM-I & II	developments in early Indian history.1. Students will explain to illustrate the development of empire.
	SLW-I & II	 Students will explain to indstrate the development of empire. 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 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.1. Develop competence among the students for self-learning.
		2. Familiarize with excellent pieces of prose and poetry in English so that they realize the beauty and communicative power of
	Compulsory English	English.
		3. Develop their interest in reading literary pieces.4. Expose to native cultural experiences and situations in order to
	General English: Study of English	develop humane values and social awareness.
		5. Develop overall linguistic competence and communicative skills.1.Expose them to the basics of short story as a literary form.
		2. Familiarize them with different types of short stories in English.
		3. Understand the literary merit, beauty and creative use of
SYBA		language.4. Introduce some advanced units of language so that they become
SIDA	Language and	aware of the technical aspects and their practical usage.
	Literature (G-II)	5. Prepare to go for detailed study and understanding of literature
		and language.
		6. Develop integrated view about language and literature in them.
		1. To understand fundamentals of modern financial system.
		2. To understand the recent trends and developments in banking
	Indian Financial System (G-II)	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
		2. To emilance the students the knowledge of various imanetal allu

	non-financial institutions.
	3. To enhance the students the intricacies of Indian financial system
	for better financial decision making.
Adhunik Marathi	1. Familiarize with standard writing practices.
	2. Develop the skill of translation.
Sahity aani Upyojit	3. Understand aspects of Biography and Autobiography.
Marathi (G-II)	4. Develop ability to appreciate and evaluate selected Biographies
	and Autobiographies in modern Marathi literature.
	1. Become aware about dynamic environment among the student.
	2. Acquaint with fundamental concepts of environment geography
Environment	for development in different areas.
Geography	3. Integrate various factors of Environment and dynamic aspect of
(G-II)	Environmental geography.
	4. Become aware about the problems of environment, their
	utilization and conservation in the view of sustainable developmen
	1. Acquaint with Geography of our State.
	2. Become aware of the magnitude of problems and prospects in
	2. Become aware of the magnitude of problems and prospects in Maharashtra.
	3. Understand the inter relationship between the subject and the
Geography of	society.4. Understand the recent trends in regional studies.
Maharashtra S-I	5. become aware about the agriculture problems and prospects of
Wallarashira 5-1	Maharashtra.
	6. Understand the concept of rural development.
	7. Understand the prospectus in Tourism activity in Maharashtra and the role of MTDC and Role of MIDC in industrial
	development in rural area of Maharashtra
	 Develop practical skill and use of map scale and projection. Become aware about the new techniques, accuracy and skills of
	map making.
Practical Geography	3. Introduce to the basic and contemporary concepts in
S-II	Cartography.
	4. Acquaint with the utility and applications of various
	Cartographic Techniques.
	1. Understand Political Science as a discipline.
	2. Understand approaches of Political Science.
	3. Become aware the concepts like State, Market, Civil Society and
Introduction to	Democracy.
Political Science	1. Become aware about Political Values like liberty, equality and
(G-II)	justice, Rights.
	2. Understand Ideologies of Political Science.
	3. Become aware about International Organizations.
	ě
	1 Understand health psychology and arrive at the introduction to the
Health Psychology &	role of psychology in health.
	2. Understand the nature of stress and coping
	3. Understand various factors related to health and diseases.
Positive Psychology	4. Understand quality of life and promoting the good health.
(G-II)	1. Understand how the positive psychology as the science of
	happiness, human strengths, positive aspects of human behavior ar
	'psychology of well-being.'
	2. How we lead our lives, find happiness and satisfaction, and face
	life's challenges.

		3. How positive psychology has become an evolving mosaic of
		research and theory from many different areas of psychology
		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
	History of Maratha	of the Marathas.
	(G-II)	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
		1 0
		and profundity of diplomacy1. 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
	Compulsory English	4. Expose to varied cultural experiences through literature.
		5. Contribute to their overall personality development by improving
		their communicative and soft skills
		1. The students will be familiar with the concept of economic
		development & growth.
	D :	2. The students will be the theories & approaches to economic
	Economic	development.
	Development & Planning (G-III)	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
		1. Acquaint with geography of our Nation.
		2. Become aware of the magnitude of problems and Prospects at
	Regional Geography of India (G-III)	National level.
		3. Understand the inter relationship between the subject and the
TYBA		society.
		4. Understand the recent trends in regional studies.
	Agricultura Geography (S-3)	1. Familiarize with agricultural activities and its relation with
		Geography.
		2. Familiarize with new modern technical methods and their
		applications in Agricultural activities.
		3. Apply previously knowledge in problems and prospects in
		agriculture
		1. Familiarize with SOI Toposheets and to acquire the Knowledge
		of Toposheet Reading/Interpretation.
	Techniques of Spatial Analysis (S-4)	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
		1. Understand Marathi language and literature
		2. Introduce various movements in modern Marathi literature

Adhunik Marathi Sahity ani Upyojit Marathi (G-III)	 Develop interest in modern Marathi literature. introduce to the media and Skills for developing media for newspapers, radio and TV can be developed. Understand of life develops through study of literature.
General English (G- III): Advanced Study of English Language and Literature	 Expose to some of the best samples of Indian English Poetry. Know to see how Indian English poetry expresses the ethos and culture of India. Understand creative uses of language in Indian English Poetry. Introduce to some advanced areas of language study. Prepare to go for detailed study and understanding of literature and Language. Develope integrated view about language and literature among the students.
Local Self Government in Maharashtra (Gen-III)	 Know the historical background of Indian Local Self Government. Know the importance of democratic decentralization. Become aware about development of Local Self Government.in Maharashtra. Understand the nature and role of Local Self Governments in Maharashtra Become a politician in Local Self Governments.
Industrial and Organizational Psychology (G-III)	 Understand the emergence of industrial and organizational psychology. Familiarize with the work done in industrial and organizational psychology Understand the significance of training, performance appraisal and organizational psychology. Know the importance of engineering psychology. Become aware of various functions of industrial psychology. Become aware about the role of psychological factors & processes at work.
History of the world in 20th century (G-III)	 Students have understood the relation between Modernity and Nationalism and its implications. Students have understood the process of colonialism in different part of world. Students have understood the problems of contemporary world in the light of its background history. Students have understood the necessity of Universal-Brotherhood

K. K. Wagh Education Society's



Karmaveer Kakasaheb Wagh Arts, Commerce, Science & Computer Science College

CHANDORI, Tal. Niphad, Dist. Nashik - 422 201. (Affiliated to Savitribai Phule Pune University) (02550) 233439, 233438 Fax. No. (02550) 233438 ID No. (PU/NS/AC/079/2003) Email : principal-seniorchandori@kkwagh.edu.in Website : www.ascc.kkwagh.edu.in

Bachelor of Commerce

Programme Outcomes, Programme Specific Outcomes & Course Outcomes

(PO, PSO, CO)

Programme Outcomes

Programme	Programme Outcomes
	1) To gain In depth knowledge, understanding and skills in Commerceand apply these skills for real life problem solving
Bachelor of	 To Inculcate reading, writing, speaking skills and develop business correspondence and also administrative abilities
Commerce	 To create awareness amongst society about Law and Legislations related to commerce and business and also develop leadership skills.
	 To use new technologies effectively to communicate ideas in the area of commerce & E- commerce & about Economic Environmentof Country as well as World
	5) To plan and develop the start-ups and entrepreneurial ventures independently through skills developed and work collaboratively and productively in 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 newresearch findings, ideas, methodologies.

Programme	Programme Specific Outcomes
Bachelor of Commerce	 Students will be able to apply basic skills learnt in commerce necessary for analysis of various problems in accounting, marketing, business economics, management and finance. 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	 To offer relevant and practically helpful pieces of prose and poetry tostudents so that they not only get to know the beauty and communicative power of English but also its practical application. To expose students to a variety of topics that dominate thecontemporary socioeconomic and cultural life To develop oral and written communication skills of the students sothat their employability enhances. To develop overall linguistic competence and communicative skills. 	
112	Financial Accounting - I	 To understand various accounting Concepts, Conventions and Principles, emerging trends in accounting and its effect on accountingPractices. To understand process of dissolution of partnership firm. To understand the process of conversion of single entry into doubleentry system. To get knowledge about GST. 	
113	Business Economics- I	 To make the students aware of concepts in micro economics and difference between micro and macro economics. To impart knowledge of cardinal and ordinal approach and concept ofconsumer surplus. To impart knowledge of law of supply and the determinants of law ofsupply To help the students understand the relation between revenue concepts. 	
114 (B)	Computer Concepts and Application- I	 Understand the basics of software and hardware. Acquire knowledge of office automation tools like Application software MS-Office. Understand the knowledge of Computer Network its application. Understand the Computer Applications in various fields of Commerceand Use of E-Commerce. 	
115-B	Banking and finance	 To understand knowledge of evolution of banking & structure ofIndian Banking To understand the primary and secondary functions of a bank To know the process of opening and operating procedure of bankaccounts. 	

		4. To understand various methods of remittance.
		1. To introduce the basic concepts in Marketing.
		2. To give the insight of the basic knowledge of Market
116-C	Marketing -I	Segmentationand Marketing Mix.
		3. To impart knowledge on Product and Price Mix.
		4. To establish link between commerce, business and marketing.
		1. Commerce students get knowledge of Marathi business area.
		2. Recognizes the work and thoughts of competent persons in various
117	Marathi	fields.
11/		3. Ethical, professional and ideological values are nurtured in 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 nurtured in the students.

		F.Y.B.COM CBCS SEM II
Subject Code	Subject Name	Outcome
121	Compulsory English	 To offer relevant and practically helpful pieces of prose and poetryto students so that they not only get to know the beauty and communicative power of English but also its practical application. To expose students to a variety of topics that dominate thecontemporary socioeconomic and cultural life To develop oral and written communication skills of the students sothat their employability enhances. To develop overall linguistic competence and communicative skills
122	Financial Accounting-II	 To understand concepts computerized accounting, its application andutility. To understand the preparation of final account of Charitable Trust. To understand the methods of valuation of intangible assets. To understand the process and methods of leasing.
123	Business Economics (Micro) - II	 To understand the concept and types of cost and revenue. To impart knowledge about equilibrium of firm and industry in shortand long run. To develop ability to understand the market structures underimperfect competition To understand the theory of marginal productivity and theories in factor pricing .
124-B	Computer Concepts & Applications - II	 To make the students familiar with Computer environment. To make the students familiar with basics of Network, Internet andrelated concepts. To make awareness among students about applications of Internet inCommerce. To enable make awareness among students about e-commerce and M
125-B	Fundamentals of banking – II	 Commerce. To learn about Lending Principles and Balance Sheet of a Bank To learn about Negotiable instruments To learn about Endorsement. To acquire knowledge about current trends in Banking Technology

126-C	Marketing and Salesmanship - II	 Acquire knowledge about Characteristics and Qualities of Salesmanship. Gain practical knowledge of Stages in Process of Selling and can enhance their skills in the field of marketing. Insights about Rural Marketing and its uniqueness. Get knowledge about Various Recent trends in Marketing.
127	Marathi	 The position of Marathi language in the field of business becomes clear and the actual use of Marathi in it can be studied. To study Marathi in various fields, one understands the nature of media and its discourse. Understands the nature and necessity of language transactions in various fields. Different types of writing in the media can be studied and actual writing can be done.

	S.Y.B.COM – Annual Pattern		
Subject Code	Subject Name	Outcome	
201	Business Communication	 Improvement in communication skills and enhancement of the Business communication Skills. Develop an integrative approach where reading, writing, oral and speaking English Improvement in Personality Development Improving written communication and Business Correspondence. 	
202	Corporate Accounting	 Get knowledge of various Accounting Standards. Acquire practical knowledge of Preparation of Final Accounts of Companies under Companies Act, 2013. Gain practical knowledge of Liquidation process. Learn about Computerized Accounting and Inventory accounting. Get knowledge of Amalgamation, Absorption and External Reconstruction of Companies. Understand the process of Internal Reconstruction. Gain practical knowledge of Consolidation of Holding and Subsidiary Company. Concept of Valuation of shares, and how to calculate Value of each share by using various methods. 	
203	Business Economics (Macro)	 To make the students aware of concepts in macroeconomics To make the students aware of basic concepts in national income To help the students to understand the concept of Employment and theory Output To impart knowledge of Consumption Function, Saving and Investment Function To make the students know about Demand, Supply and Value of Money To understand the concept Inflation. To understand the concept and phases of trade cycle. To understand Public Finance. 	
204	Business Management	 Acquire knowledge about the importance of management and various management principles and thoughts Develop knowledge of planning decision making. Get acquainted with knowledge of organizing & staffing. Develop knowledge of Direction & communication skills. Understand the importance of Motivation & Motivation theories. Learn the meaning of Leadership, Qualities of leader & Contribution of Mahatma Gandhi, Dr. Babasaheb Ambedkar. Understand the meaning of Co-ordination& steps in the process of control. Acquire knowledge about the recent trends in Business Management i.e. Business Ethics, Corporate Governance, CSR. 	
205	Elements of Company Law	 Understand the meaning of Company and Types of Companies. Acquire the Knowledge of various stages in the Formation and 	

		 Incorporation of a Company. Get acquainted with knowledge of Memorandum of association and Articles of association. Develop knowledge of public issue, rights issue, bonus shares, ESOS, Sweat Equity Shares, Buy-back of shares. Understand the Concept of Forfeiture and Surrender of Shares. Learn the meaning of E-Governance and E-Filing and its benefits. Acquire the Knowledge of Management of Company and Types of Directors. Get acquainted with knowledge of Managing Director, Manager and Whole Time Director. Understand the meaning of Meeting and all types of Company
		Meetings. 10. Develop knowledge of Revival and Rehabilitation of Sick Companies
206-A	Business Administration Special Paper I Business Administration	 Understand the basics of business administration concepts, Meaning Commerce, functions of Administration. The knowledge of forms of business organization. The knowledge of business environment. Understand the business promotion. Understand the legal aspects of business. Understand the productivity of various business units. Understand the recent trends in business management. Understand the barriers in industrial sickness.
206-Е	Cost and Works Accounting Special Paper I Cost and Works Accounting	 Understand Basic Cost concepts, Elements of cost and cost sheet. Analyze the inventory situation of a company and suggest improvements. Analyze and provide recommendations to improve the operations of organizations. Determine various levels of material and EOQ. Understand the methods used by organizations to obtain the right quantities of stock or inventory. Understand the salient features of different incentive plans. Understand the factors associated with labour turnover. Apply cost accounting methods for both manufacturing and service industry.

	T.Y.B.COM Annual Pattern		
Subject Code	Subject Name	Outcome	
301	Business Regulatory Framework	 Acquire knowledge of General principles of Indian Contract Act, 1872. Get acquainted with knowledge of Law of Partnership and LLP. Understand various concepts under Sales of Goods Act, 1930. Gain knowledge about nature & significance of E-commerce and Digital Signature. Learn about various provisions under Consumer Protection Act, 1986. Get acquainted with knowledge of Intellectual Property Rights. Understand various concepts of under Negotiable Instruments Act, 1881 Understand Laws relating to Arbitration & Conciliation 	
302	Advanced Accounting.	 Understand Early relating to Filohauton & Continuiton Understand Accounting Standards and introduction to IFRS – Fair Value Accounting. Understand how to prepare and present the final accounts of Banking Companies Understand how to calculate insurance claim in case of Loss of Profit Policy, Loss of Stock Policy and Loss of Assets Understand how to prepare and present the final accounts of Co-operative Societies Understand all the computerised accounting practices related to VAT, Service Tax, CENVAT, TDS Understand the Types and methods of Branch Accounting Understand all the ratios and how to analyse them 	
303	Indian & Global Economic Development	 To make the students aware of concepts in Indian & Global Economic Development To make the students aware of Place of Agriculture in Indian Economy To help the students to understand the Industrial Development in India Since 1991 To understand Role of Basic infrastructure in economic development of India. To understand the concept of Concept of Human Development Index (HDI) To understand the Meaning and Challenges of Liberalization, Privatization & Globalization To understand the Importance of Foreign Trade in Economic Development To understand Regional & International Economic co- operation. 	

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304	Auditing & Taxation	 Students will be able to learn the Principles of Auditing and Audit Process. Knowledge of various concepts regarding checking, vouching and Audit Report. Impart the knowledge regarding Qualification, Disqualifications, Appointment, Removal, Rights, Duties and liabilities. Knowledge of Scope of Auditor's Role under Income Tax Act Compulsory Tax Audit. Concept related Audit of Computerized Systems. Students will be able to learn the Concepts and Definitions under Income Tax Act-1961. Impart the knowledge regarding Computation of Taxable Income under the different Heads of Income. Knowledge of Computation of Total Taxable Income of an Individual. 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. Concepts of Structure, Functions and powers of various Income Tax Authorities
305-A	Business Administration Special Paper II Business Administration	 Integrated perspective on role of HRM in modern business. Contribute to the development, implementation, and evaluation of employee recruitment, selection, and retention plans and processes. Understanding of the basics of career development and succession planning. Gain insight into the various sub systems of HR. Understand the concepts about basic ideas of marketing. Determine, analyze and respond to clients' advertising and marketing communications objectives. Understand the overall role advertising plays in the business world. Gain an insight into the recent trends in marketing.
305-Е	Cost and Works Accounting Special Paper II Cost and Works Accounting	 Get knowledge about the concepts and principles application of overheads Do the classification of overheads in the manufacturing process Provide understanding about various methods of costing and their applications. Control of costs while manufacturing through activity based costing
306-A	Business Administration Special Paper III Business Administration	 Demonstrate the applicability of the concept of Financial Management. Observe and interpret financial markets to uncover potential opportunities. To know how to Value financial products. Analyze and evaluate various facility alternatives in operation environments. Understand the core features of the operations and production management. Able to get the basics of process layout & product layout. To explain different Inventory control techniques. Able to know about the different type's material handling methods.

306-E	Cost and Works Accounting Special Paper III Cost and Works Accounting	 Students will be able to learn the meaning, importance of marginal costing. Get knowledge of meaning and objectives of Budget & Budgetary control. Gaining knowledge of uniform costing and Inter-firm Comparison. Knowledge of meaning and objectives of management information system in Costing. Students will be able to learn about Standard Costing and Concept of Material & Labour variances. Knowledge and Features, Advantages & Limitations of farm costing. Knowledge of Cost Accounting Record Rules & Cost Audit Knowledge of Meaning, Scope, objectives & advantages of Cost Audit as well as Generally Accepted Cost Accounting principles.
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Masters of Commerce (M.Com)

se Name	Program Outcomes
Com	 Imbibe employability skills for a career in Commerce and Industry by providing a systematic and rigorous learning and exposure to Advanced Accounting and Taxation. Train the student to develop conceptual, applied and research skills as well as competencies required for effective problem solving and right decision making in routine and special activities relevant to financial management and accounting transactions of a business. Acquaint a student with conventional as well as contemporary areas in the discipline of Commerce and demonstrate a global outlook to cater to the needs of the business and cross cultural understanding. Enable a student well versed in national as well as international trends to facilitate the students for conducting business, accounting and auditing practices, role of regulatory bodies in corporate and financial sectors nature of various financial instruments. Employ the creative thinking, analytical ability, skills, knowledge with professional attitude for better organizational performance Provide in-depth understanding of all core areas specifically Advanced Accounting, International Accounting, Management, Security Market Operations and Business Environment, Research Methodology and Tax planning.
Com	 exposure to Advanced Accounting and Taxation. 2) Train the student to develop conceptual, applied and rese skills as well as competencies required for effective probability solving and right decision making in routine and special active relevant to financial management and accounting transactions business. 3) Acquaint a student with conventional as well as contemporareas in the discipline of Commerce and demonstrate a gl outlook to cater to the needs of the business and cross cultured understanding. 4) Enable a student well versed in national as well as internatification transactions for conducting business. 5) Employ the creative thinking, analytical ability, skills, knowled with professional attitude for better organizational performance 6) Provide in-depth understanding of all core areas specificate Accounting, International Accounting, Managem Security Market Operations and Business

Course Name	Program SpecificOutcomes		
M.Com	 Develop an ability to apply knowledge acquired in problem solving and to work in teams with enhanced interpersonal skills, administrative and communication skills. The students can work in different domains like Accounting, Taxation, Finance, HRM, Banking and Administration. Excel in contemporary knowledge of business and emerge as innovative entrepreneurs or acquire the abilities to work in MNCs as well as private, and public companies. Prepare to undertake higher learning research programme in commerce and Management and go further for professional courses like CA/ CS/CMA/CFA 		

Course Outcome Commerce- M.com M. Com. Part I CBCS SEM I							
					Subject Code	Subject Name	Course Outcome
					101	Management Accounting	 Acquire knowledge about concept of management accounting, Gain practical knowledge about Marginal Costing and Managerial Cost Accounting. Acquaint with knowledge of Concept of budget and budgetary control. Get knowledge of concept of Working Capital.
102	Strategic Management	 To describe the role of Strategic Management and to introduce the students to the emerging changes in the modern business environment To develop the analytical, technical and managerial skills of students in the various areas of Business Administration To empower to students with necessary skill to become effective future managers and leaders To develop Technical skills for designing and developing effective Functional strategies for growth and sustainability of business and implement and evaluate strategy at national and International level 					
113	Production & Operation Management (SP-I)	 Describe recent trends in production and service system. Describe different plant layout of production and operation management. Discuss process of product design of production function. Illustrate techniques and tools of product development. Identify production planning in production management. Describe different concept of product control. Illustrate role of Total Quality Management in production and operation management. Summarize concepts of Quality circle, TQM, & GMP as a Quality management. 					
114	Financial Management (SP-II)	 Identify financial system in India & recent changes. Illustrate role of RBI & SEBI in Indian financial system. Discuss capital budgeting techniques for financial decision making. Illustrate capital budgeting methods of investment decisions. Interpret financial statement & its utility of business firm. Describe limitations of financial statements in financial analysis. Explain concept of working capital management. Identify concept of inventory management & receivable management. 					
107	Advanced Cost Accounting	 Students will enable explain the costing concept and methods and Analyse the unit cost and job costing, process costing with normal and abnormal loss. they can be able to analyse standard costing methods and prepare the reconciliations statements 					

Costing Technique 108 Examination s and Responsibility Accounting	Techniques of Costing
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M. Com. Part I CBCS SEM II				
Subject Code	Subject Name	Course Outcome		
201	Financial Analysis & Control	 Gain Insights of financial analysis and control. Gain practical knowledge on Intra & Inter Company Comparison. Gain practical knowledge on computation of cash and fund flows statements. To develop the skill of appropriate use of different ratios to evaluate the financial performance of entities. 		
202 A	Industrial Economics	 Understand the concepts of industrial economics and develop analytical thinking and problem solving skills, Know the theories of industrial economics and to impart knowledge about industrial imbalance in India Gain knowledge about sources of industrial finance and Indian industrial growth. Know about industrial productivity and efficiency, size of firms, and sources of finance and problem of industrial finance 		
213	Business Ethics & Professional Values (SP-III)	 Identify concept of business ethics, profession and values. Define factors affecting on social ethics. Describe Indian Ethical Practices in marketing, advertising and Employment. Illustrate unethical practices in Gender discrimination and accounting disclosures. Describe concept of corporate governance in business. Summarize concept of Corporate Social Responsibility in business ethics. Illustrate Indian approaches to business ethics. Examine new values in Indian industries after economic reform 1991. 		
214	Knowledge Management (SP-IV)	 Demonstrate concepts of knowledge management. Describe evolution of knowledge management. Summarize drives of organizational learning. Illustrate organizational learning frame work. Illustrate knowledge management tools. Describe cultural change management. Examine organizational culture for organization development. Criticize measuring organizational cultural and climate Norms. 		
207	Application Cost Accounting	1. The post graduate students can use the knowledge on advanced cost accounting practices and Relevant Cost Accounting Standard are to be studied.		

208Cost Control & Cost1. The students will be answer and design the imple control, cost reduction programme and different co and Relevant Cost Accounting Standards are to be studied.
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M. Com. Part II SEM III		
Subject Code	Subject Name	Course Outcome
301	Business Finance.	 Students came to know about emerging changes in themodern business environment Students are able to develop their analytical, technical andmanagerial skills in the various areas of Business Administration Students are empowered with necessary skill to become effective future managers and leaders Students develop Technical skills for designing and developing effective Functional strategies for growth and sustainability of business
302	Research Methodologyfor Business.	 Acquaint with the areas of Business Research Activities, identify research problem and determine the research objectives Enhance capabilities of students to conduct the research in the field of business and social sciences and learning the formulation of Research Problem, Hypotheses, Research Design and Sampling Enable to develop the most appropriate methodology for the research studies and apply the statistical tools for the interpretation of the data collected and prepare a systematicresearch report Become familiar with the art of using different researchmethods and techniques
313	Human Resource Management (SP-V)	 Describe concept, approaches, and functions of HRM in Indian business context. Identify concept of HR environment in organisation. Illustrate different methods of recruitment of organization. Interpret training process in business organisation. Classify methods of performance appraisal. Explain concept of merit rating in Human Resource Management. Classify different kinds of retirement. Differentiate new trends in customer service management.
314	Organizational Behaviour (SP-VI)	 Define concepts of organizational behaviour. Illustrate role of information technology in an organization. Identify concept of Horizontal network and virtual design of organization. Describe Attributes of personality & dimensions of attitude. Classify theories of motivation. Define concept of emotional intelligence in the workplace. Differentiate various types concept of stress, conflict and groups. Classify different types of teams & team building.

307	Cost Audit	 Students can acquire adequate knowledge on Cost Audit Practices. Level of Knowledge.
308	Management Audit	 The students with the knowledge of the techniques and methods of planning and executing the Management Audit.

M. Com. Part II SEM IV		
Subject Code	Subject Name	Course Outcome
401	Capital Market and Financial Services.	 Acquaint with the working of capital market in India aware about the latest developments in the field of capital market in India and the various instruments used in Capital Market, role of intermediaries, Mutual funds, Portfolio management enable to understand various transactions in stock exchanges and agencies involved in it and acquire skills about recent development in regulatory body SEBI Exposed about the financial services offered by various agencies and financial adviser
402	Industrial Economic	 Understand the concepts of industrial economics and develop analytical thinking and problem solving skills know the theories of industrial economics and to impart knowledge about industrial imbalance in India Gain knowledge about sources of industrial finance and Indian industrial growth know about industrial productivity and efficiency, size of firms, and sources of finance and problem of industrial finance
413	Recent Advances in Business Administ ration (SP-VII)	 Define concepts of change management. Describe dimensions and approaches of change management. Demonstrate concept of Total quality management. Define six sigma techniques in quality management. Describe Global management system and its significance. Illustrate role of merger and acquisition in corporate organization. Interpret techniques of turnaround management strategies. Analyse key steps in innovation management.
414	Project Work (SP-VIII)	 1. Describe concepts of Research in business. 2. Prepare synopsis for project report. 3. Construct formulation of research problem. 4. Modify sample and sampling methods. 5. Classify primary and secondary methods of data collection. 6. Describe analysis and interpretation of data. 7. Rewrite report in different areas. 8. Summarize modes of citation & bibliography.
407	Recent Advances in Cost Auditing and Cost System	1. Get the knowledge on recent advances in cost accounting and cost systems

408 Project Work/Ca Studies	
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Karmaveer Kakasaheb Wagh Arts, Commerce, Science & Computer Science College

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Bachelor of Science (B.Sc.)

Programme Outcomes

Course Name	Program Outcomes
B.Sc.	 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. To understand the fundamental concepts, principles, and scientific theories related to various scientific phenomena and their relevance in daily life. The students will learn professional ethics including responsibility to work in teams & apply basic ethical principles, also apply knowledge of basic concept of science understand the interdisciplinary nature of Science, also analyze the learned laboratory skills. Being a science student become well aware of various pollutants, their sources & their 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. To be able to think innovatively to propose novel ideas in explaining facts or providing new solution to the problems. 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.	 To provide a broad foundation in science that stresses scientific reasoning and analytical problem solving with a molecular perspective. To provide students with the skills required to succeed in graduate school, the science industry or professional school.

	Course Outcome		
Bachelor of Science			
	F.	Y.B.Sc. CBCS SEMI	
Subject Code	Subject Name	Outcome	
CH-101	Physical Chemistry	 Students will be able to apply thermodynamic principles to physical and chemical process. Knowledge of Chemical equilibrium will make students to understand- relation between Free energy and equilibrium and factors affecting on equilibrium constant. Concept of ionization process occurred in acids, bases and pH scale. Related concepts such as Common ion effect, Hydrolysis constant, ionic product, solubility product. 	
CH-102	Organic Chemistry	 The students are expected to understand the fundamentals, principles, and recent developments in the subject area. 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. To create foundation for research and development in Chemistry. 	
GG111	Introduction to Physical GeographyI (Geomorphology)	 To introduce the students with the basic concepts in Geomorphology and Physical Geography and its branches, Geological timescale and Applied Geomorphology. The student understands the importance of the Earth system based on seismic evidences. Theory of Plate tectonics and also Plates and boundaries and associated their landforms. Earthquakes and volcanoes, their types ,causes and effects. The student will be able to understand and classify Rocks and Minerals. 	
GG112-	Introduction to Physical Geography- II(Geography of Atmosphere and Hydrosphere)	 Students will understand the concepts about Introduction of atmosphere their definition and evolution, Insulation process and mechanisms of heat transfer and Heat budget of the Earth, Factors affecting on horizontal distribution of temperature, Vertical distribution of temperature- lapse rate and inversion of temperature. Students will become familiar about basic Concepts of atmospheric pressure and wind system. Introduction of students with Hydrosphere. 	

		 Students will be able to understand diversity and evolutionary concepts of taxonomy & nomenclature of animals. Students will be able to understand the classification, structure, locomotion, protozoa, Paramecium's habits, habitat ,characters, digestion excretion, and
ZO-111	Animal diversity-I	 reproduction, harmful & useful protozoa. 3. Students will be understand origin & importance of multicellular organisms. 4. Students will be understand structure, classification, regeneration & economic importance of pore bearing organisms, cnidarians And Platyhelminthes.
ZO-112	Animal Ecology	 Students will be able to apply Concepts of Ecology, Environment, Population, Community ,Ecosystem, Biosphere, Autecology and synecology. Students will understand the Types of ecosystems ,Structure and Composition of Ecosystem. Knowledge of population and Gause's Principle with laboratory and field interactions. Students can study the Animal interactions ,Competition and beneficial Associations.
BO111	Plant Life and UtilizationI	 Students will be able to understand Introduction to plant world. General Unique features of plants and outline of the classification with example. Knowledge of Structure of plant Cell, characteristic feature. To know the Plant Tissues and tissue systems.
BO112	Plant Morphology and Anatomy	 Students will be able to understand descriptive and interpretative morphology. Students will able to understand Introduction and definition Importance in Taxonomy, Physiology ,Ecological interpretations, Pharmacongnosy and Wood identification. To know the different Types of Tissues in plants and internal Primary organization in plants.
MT- 111	Algebra	 Students will be to understand basic concept of Sets and relations,. Understand the basic property of GCD and LCM, application of division Algorithm. Apply concept of Prime Numbers, Congruence, and application of Euclid's Lemma. Students will be able to understand concept of Complex Numbers. Concepts of atmospheric pressure and wind system. Introduction of students with Hydrosphere.

ZO-111	Animal diversity-I	 Students will be able to understand diversity and evolutionary concepts of taxonomy & nomenclature of animals. Students will be able to understand the classification, structure, locomotion, protozoa, Paramecium's habits, habitat ,characters, digestion excretion, and reproduction, harmful & useful protozoa. Students will be understand the origin & importance of multicellular organisms. Students will be understand the structure, classification, regeneration & economic importance of pore bearing organisms, cnidarians And Platyhelminthes.
ZO-112	Animal Ecology	 Students will be able to apply Concepts of Ecology, Environment, Population, Community ,Ecosystem, Biosphere, Autecology and synecology. Students will understand the Types of ecosystems ,Structure and Composition of Ecosystem. Knowledge of population and Gause's Principle with laboratory and field interactions. Students can study the Animal interactions ,Competition and beneficial Associations.
BO111	Plant Life and UtilizationI	 Students will be able to understand Introduction to plant world. General Unique features of plants and outline of the classification with example. Knowledge of Structure of plant Cell ,characteristic feature. To know the Plant Tissues and tissue systems.
BO112	Plant Morphology and Anatomy	 Students will be able to understand descriptive and interpretative morphology. Students will able to understand Introduction and definition Importance in Taxonomy, Physiology ,Ecological interpretations, Pharmacongnosy and Wood identification. To know the different Types of Tissues in plants and internal Primary organization in plants.
MT- 111	Algebra	 Students will be to understand basic concept of Sets and relations. Understand the basic property of GCD and LCM, application of division Algorithm. Apply concept of Prime Numbers, Congruence, and application of Euclid's Lemma. Students will be able to understand concept of Complex Numbers.

F.Y.B.Sc.CBCSSEMII		
SubjectCode	Subject Name	Outcome
CH-201	Inorganic Chemistry	 Various theories and principles applied to revel atomic structure. Explain rules for filling electrons in various orbitals and ionization energies. Attainment of stable electronic configurations. Various types of chemical bonds and basic understanding of geometry and effect of lone pairs
СН-202	Analytical Chemistry	 Knowledge of Some important units of measurements. Types of organic compounds, characteristic tests and classifications. Introduction to chromatography and types of chromatographic techniques. Introduction to pHmeter and its applications
GG-121	Introduction to Human Geography	 To introduce the students with Human Geography. Human Evolution and Races Stages of human evolution. Student gain knowledge about Economic activities Of Man like Primary, Secondary, Tertiary and Quaternary.
GG-122	Population and Settlement Geography	 Sources of Population Data: Census , National Sample Survey and other Sources. Students gain knowledge about Population Dynamic Student is able to understand about Settlements.
PHY-121	Heat and Thermodynamics	 Concept of thermodynamic state, Equation of state, , Thermal equilibrium and laws of thermodynamics. Student will be able to understand Conversion of heat into work and it's converse. Principle, Construction and Working of thermometers.
РНҮ-122	Electricity and Magnetism	 To understand the concept of the electric force, electric field and electric potential for stationary charges. Able to calculate electrostatic field and potential of charge distributions using Coulomb law and Gauss law. To understand the dielectric phenomenon and effect of electric field on dielectric. Introduction to Magnetization, Types of Magnetic Materials To Study magnetic field for steady currents using Biot- Savart and Ampere Circuital laws. To study magnetic materials and its properties.

MT121	Analytical Geometry	 Students able to understand the Geometry of translation and rotational system. To understand the property of plane. Student will be able to understand the property of Equations of aline in Symmetric and unsymmetrical forms. To understand the Equation of a sphere and circle in different forms
MT122	Calculus-II	 Student will be able to understand differentiation and fundamental theorem in differentiation and various rules. Geometrical representation and problem solving on MVT and Rolls theorem. Finding extreme values of function. Introduction to Ordinary Differential Equation
ZO-121	Animal diversity – II	Students will be able understand structure and economic importance of annelids, arthropods ,Mollusca and echinoderms.
ZO-122	Cell Biology	 Students will be able to understand the concept of Cell as basic unit of life. Students also study the cell cycle and cell division (mitosis and meiosis).
BO-121	Plant Life and Utilization-II	 Students will be able to understand Introduction to plant diversity. Students will be able to understand General characters outline classification, Life cycle pattern, Utilization and economic Importance of Pteridophytes, Gymnosperms ,Angiosperms.
BO-122	Principle of Plant Sciences	 Students will be able to know Introduction , definition and scope of plant physiology. To underst and Structure of plant cell, differences between prokaryotic and eukaryotic cell. To understand Plant cell wall components of primary cell wall, structure and functions Students will be able to know phases of cell cycle, importance of cell cycle in plants, divisional stages of mitosis and meiosis. Students will be able to know introduction and Scope of molecular biology, central dogma of molecular biology.

	S.Y.B.SC (2019 Pattern) SEM III		
Subject Code	Subject Name	Outcome	
CH-301	Physical and Analytical Chemistry	 Define/ Explain concept of kinetics, terms used, rate laws, molecularitry, Order. Apply adsorption process to real life problem. Apply statistical methods to express analytical results in laboratory. To prepare standard solutions and perform standardization of solutions. 	

		1. Explain and apply LCAO principal for the formation of MO's from AO's.
		2. Apply IUPAC nomenclature of to coordination compounds.
СН-302	Inorganic and Organic	3. Identify and draw the structure of aromatic hydrocarbons from their names or from structure name can be assigned.
	Chemistry	4. Explain important reactions of alkyl/aryl halides.
		5. Able to differentiate between alcohols and phenols.
		6. To correlate reagent and reaction of alcohols/phenols,
BO- 231	Taxonomy of Angiosperms and Plant Ecology	 Know principals of taxonomy, methods in taxonomy Understand the classification\ application economical and biological importance of Angiosperms Introduction to ecology, Ecosystem Types of Ecosystem.
BO- 232	Plant Physiology	 Applications of plant physiology, Mechanism of Absorption of water, Transpiration. Knowledge of Plant growth and plant growth regulators. Concept to Nitrogen metabolism. To study various metabolic processes in plants like transpiration, ascent of sap, physiology of flowering
ZO -231	Animal Diversity III	 Students will be able to understand classify and identify the diversity of higher vertebrates. Students will be able to understand different life functions of higher vertebrates. Students will be able to understand diversity, structure,& classification of phylum Chordata ,Sub phylum proto chordata, Class Pisces and Amphibia . Students will be able to understand systematic position, habit, habitat, external characters, digestive system, Nervous system, Female reproductive system and Male Urinogenital system of Scolidon.
ZO -232	Applied Zoology I	 Students will be able to understand the techniques in Fisheries. Student can study the types of Agricultural Pests and their different control methods. Also study Marks of identification, lifecycle, nature of damage and Control measures of different pests.
MT 231	Calculus of	On completion of the course, student will be able to- CO1: Have understood the topics that include functions of several variables, graph and level curves and should be able to draw their graphs in anyone of the mathematics software. CO2: Evaluate limits of multivariable functions, examine the continuity of functions of several variables learn the theory of partial derivatives and its graphical meaning and be able to find partial derivatives, gradient vectors, differentials, directional derivatives and solve problems involving tangent planes and normal lines. CO3: Locate extreme value of functions of several variables using different sets.

		CO4: learn the concepts of multiple integrals and their application to area and volumes.
		On completion of the course, student will be able to-
		CO1: Find Errors, Rounding off numbers to n significant digits, to n decimal places, absolute, relative and percentage erros, know general formula.
MT 232	Numerical Methods and its	CO2: Learn Bisection method, the method of false position, the iteration method , Newton- Raphons Method.
		CO3: Learn finite Difference Operators and their relations, Differences ofa polynomial, Newton's Interpolation Formulas (Forward and Backward)
		CO4: Understand Fitting a straight line, Nonlinear curve fitting: Power function, polynomials of degree 2 and 3, Exponential function, Traprzoidal rule, Simpsons rule.
		On completion of the course, student will be able to-
	Mathematical Methods in Physics I	CO 1: Understand the complex algebra useful in physics courses. CO 2: Introduction to complex numbers, Chain rule, Change of variables from Cartesian to polar co-ordinates, Conditions for maxima and minima.
PHY 231		CO 3: Scalar and vector fields ,understand the role of partial differential equations in physics.
		On completion of the course, student will be able to-
	Electronics I	CO1: Understand the parameters, characteristics and working of transistors, functions of operational amplifiers.
PHY 232	Electronics-I	CO2: Voltage and current Divider Circuit, Maximum Power transfer theorem.
		CO3: Revision of bipolar Junction Transistor, Types, Symbol and basic action, Current Gain Factors (α and β) and their relations.

	S.Y.B.SC (2019 Pattern) SEM IV		
	Physical and Analytical Chemistry	 Student will able to explain of one component system with respect to Description of the curve, Phase rule relationship and typical feature for Water system ii) Carbon dioxide system iii) Sulphur system 	
CH-401		2. Differentiate between ideal and non-ideal solutions and can apply Roult's law.	
		3. Apply conduct metric methods of analysis to real problem in analytical laboratory.	
		4. Apply and column chromatographic process for real analysis in analytical laboratory.	
		1. Explain different types of isomerism in coordination complexes.	
CH-402	Inorganic and Organic Chemistry	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 cyclohexene.
BO-241	Plant Anatomy and Embryology	 Students will be able to apply scope of plant anatomy and types of tissues. To study The embryology of plants. Know different tissue systems in plants. Students will able to understand Fertilization: Mechanism of pollination, germination of pollen grain.
BO-242	Plant Biotechnology	 Students will be able to apply Interdisciplinary nature of biotechnology. Single Cell Proteins and Environmental biotechnology Students will be able to understand Basics of plant genetic engineering. plant genetic engineering, genomics, proteomics and bioinformatics.
ZO -241	Animal Diversity IV	 Students will be able to understand diversity, structure and classification of reptiles, aves & mammals. Students will be able to understand systematic position, habit, habitat, characters ,digestive system, respiratory system blood vascular system, nervous system ,sense organs, Reproductive system of Rat.
ZO -242	Applied Zoology II	 Students will gain knowledge about Apiculture in which they study habit, habitat and nesting behavior of different types of honey bees. They also studied the Life cycle, Colony organization and division of labour, Polymorphism, Bee behavior and bee communication. Students get information about Sericulture. Different types of silk moths, their distribution and varieties of silk produced by Mulberry, Tassar, Eri and Muga silk worms also study External morphology and life cycle of Bombyxmori. Cultivation of mulberry (moriculture), harvesting and post harvesting techniques in sericulture.
MT 241	Linear Algebra	 Understand the concept of Gauss elimination, Gauss - jorden Method. Define vector space, Sub space, linear dependence, basis and dimension, vector subspace, examples. Learn definition, examples, properties of linear transformations, equality of linear transformations, kernel and rank of linear transformations, composite transformations. To find kernel and rank of linear transformations, composite transformation, Inverse of a linear transformation, Matrix of a linear transformation, change of basis, similar matrices.
MT 242	Vector Calculus	 Manipulate vectors to perform geometrical calculations in three dimensions. Calculate and interpret derivatives up to three dimensions. Integrate functions of several variables over curves and surfaces. Use Green's theorem and the Divergence theorem to compute integrals. Communicate Calculus and other mathematical ideas effectively in speech and in writing.

PHY-241	Oscillations, Waves and Sound	 Definitions of linear Simple Harmonic Motion (S.H.M) and angular S.H.M. Understand the Logarithmic decrement, Quality factor. Resonance: mechanical, acoustic and electrical, Relation between quality factor and band width. Equation for longitudinal waves and its solution, Qualitative discussion of seismic waves and gravitational waves.
РНҮ-242	Optics	 Understand the Concept of magnification, deviation and power of a thin lens, Equivalent focal length of two thin lens System. Understand the Simple Microscope, Eyepiece: Ramsden's eye piece (Expression), Huygens eye piece and Gauss's eyepiece (only qualitative discussion). Understand the Brewster's law, Polarization by double refraction.
		T.Y.B.Sc. (2013 Pattern) SEM V
		(Chemistry)
CH-331	Chemistry	 Expression for rate constant k for third order reaction and Ohm's law and electrical units. Understand the term and properties Of specific volume, molar volume and molar refraction. To study electrical polarization of molecule Meaning and Types of equilibrium and concepts of phase, component and degree of freedom.
СН-332	Inorganic Chemistry	 General account and meaning of the terms involved in coordination chemistry. Definition of isomerism in complexes-Structural Isomerism and stereoisomerism. Introduction of Valence Bond Theory. Introduction and need of Crystal Field Theory.
СН-333	Organic Chemistry	 Students will become aware of types of organic acid and base. To distinguish between geometrical and optical isomerism Stability, energy calculations and optical activity of these conformers. Definition and type of nucleophiles and leaving groups Different types of carbon-carbon unsaturated compound Orientation / rules in addition reactions.
СН-334	Analytical Chemistry	 Students will be able to apply knowledge of Common ion effect and solubility product principles. Knowledge of Thermal methods of analysis will make students to understand -Principle of thermal analysis.

		3. Students will be able to understand principle and applications of Spectrophotometry and Polarography.
		1. The students are expected to learn importance of chemical industry and various industrial aspects.
		2. Students should know the insecticides and their applications.
СН-335	Industrial Chemistry	3. Students should know the Concept of basic chemicals, their uses and manufacturing process.
		4. Introduction, occurrence, composition of petroleum, resources and processing.
		5. Students should know Nutritive aspects of food constituents.
		1. Students will be able to apply knowledge of role of agriculture chemistry. 2. Knowledge of problematic soil and soil testing.
СН-336	Agriculture	3. Students will be able to apply knowledge of Sources of Water and Need of plant nutrients.
Сп-330	Chemistry	4. Students will be able to apply knowledge Classification & application of fertilizers.
		5. Students will be able to understand Pesticide Classification and mode of action.
		T.Y.B.SC (2013 Pattern) SEM VI
		(Chemistry)
		1. To study electrochemical cell and conventions used to represent
	Physical Chemistry	electrochemical cell.
CH-341		2. Classification of nuclides with suitable examples.
011-341		3. Distinguish between crystalline and amorphous solids.
		4. Basic of Quantum chemistry, quantization, Atomic spectra Wave particle
		duality.
		1. Introduction of metallic bonding,
CH-342	Inorganic	2. To study crystalline and amorphous solids and catalysts.
011-542	Chemistry	3. Types of heterogeneous catalysts-metals and semiconductors
		4. Introduction, Role of metals in bioinorganic chemistry.
	0	1. Introduction of retro synthesis.
CH-343	Organic Chemistry	2. Different types of intermediate in rearrangement reactions.
	J	3. Students will learn about electromagnetic radiations and spectroscopy
		1. Knowledge of Chromatography will make students to analyse principle
CH-344	Analytical Chemistry	of chromatographic methods.
		2. Students will be able to apply knowledge of Comparison between

		electrophoresis and chromatography.
		3. Students will be able to understand Nephelometry and Turbidometry as
		an analytical tool.
		1. Students should know basics of polymer.
		2. The students are expected to learn Importance of sugar industry.
CH 245	Industrial	3. Students should know about different types of soap products, dyes and
CH-345	chemistry	General aspects of drug action.
		4. The students are expected to learn all the problems of pollution and
		deposal of waste of various industries.
		1. Students will be able to apply knowledge of constituents of milk of
		different species.
		2. Knowledge of Common dairy processes.
		3. Students will be able to apply knowledge of Need of Milk protein.
CH-346	Dairy Chemistry	4. Students will be able to apply knowledge of Preservation of milk-
		Introduction.
		5. Students will be able to understand Cream Definition, Classification,
		and Composition.

K. K. Wagh Education Society's

Karmaveer Kakasaheb Wagh Arts, Commerce, Science & Computer Science College

CHANDORI, Tal. Niphad, Dist. Nashik - 422 201. (Affiliated to Savitribai Phule Pune University) Fax. No. (02550) 233438 To (02550) 233439, 233438 ID No. (PU/NS/AC/079/2003) Email : principal-seniorchandori@kkwagh.edu.in Website : www.ascc.kkwagh.edu.in

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	 Disciplinary knowledge: Apply knowledge of basic concepts of computer and mathematics appropriate to discipline and to provide effective solution in the area of computer. Sense of inquiry: Discuss, explain and illustrate a computational system to meet professional skills related to software industry like programming languages, web designing. Effectual communication: Illustrate the concept of system fundamentals including architecture, an organization, networking and communication. Proficient in subject matter: Describe mathematics fundamentals including discrete structure, statistics, calculus and electronics. Social and ethical values: Develop ability to perform professionally with social, cultural and ethical responsibility as an individual or as a team member positively. Modern tool usages: Differentiate between microprocessor and microcontroller also design their various applications in real world. Critical thinking: Gain the knowledge about software engineering fundamental including software analysis and design also evaluation, testify of software engineering process. 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	 Ability to understand the principles and develop different applications of computer system in various fields. Explore technical knowledge in diverse areas of Computer Science and experience an environment in cultivating skills for successful career, entrepreneurship and higher studies.

Course Name	Program Out comes
MSc. Computer Science	 Disciplinary Knowledge- Be technology-oriented with the knowledge and ability to develop creative solutions, and better understand the effects of future developments of computer systems and technology on people and society Critical Thinking- Provide advanced and in-depth knowledge of recent computer technology such as network programming, Advanced Networking, Project Management etc. Ethics- One should command responsibility and moral properties whiletaking decisions. Learning without ethics and moral concerns ismeaningless. Design/Development of Solutions- Design, Analyze Computer programs or applications in the areas functional programming, web services, Algorithms, Artificial Intelligence and recent technologies Individual and Team Work- Function effectively as an Individual and as a member or leaderin diverse teams and in multidisciplinary settings. Effectual Communication- The PG Students are expected to speak, read, write and listen clearly in person and through electronic media in English and Hindi and make meaningful communication by communicating people, ideas, knowledge media and to recent technology.

Course Name	Program Specific Outcomes
MSc. Computer Science	 Understand, Analyze and Develop computer programs foradvance design of computer based system of varyingcomplexity. Industrial exposure through 6 months Industrial Internship provides a way to become good programmer or entrepreneur.

sr. No.	Course code	Course Name	Outcomes
1	CS-111	Problem Solving using Computer and 'C' Programming	 Students will be able to to write algorithms and to drawflowcharts for solving problems. To convert the algorithms/flowcharts to C programs. To code and test a given logic in C programming language To decompose a problem into functions and to developmodular reusable code write C programs Using Array
2	CS-112	Database Management Systems	 Students will be able to understand the what is DBMS. Students will be able to understand DB design process,Data models. Students will be able to understand DDL and DMLcommands, Attribute, Sql query. Students will be able to understand Relational- Database Design, Functional Dependency, normalization.
3	ELC-111	Semiconductor Devices and Basic Electronic Systems	 To study various types of semiconductor devices. To study elementary electronic circuits and systems. To understand basic of Power supply circuits. To study basics of Oscillator circuits.
4	ELC-112	Principles of Digital Electronics	 To get familiar with concepts of digital electronics. To learn number systems and their representation. To understand basic logic gates, Boolean algebra And K-map. To study arithmetic circuits, combinational circuits and sequential circuits.
5	MTC-111	Matrix Algebra	 Students will be able to apply concepts ,tools andtechniques used in business statistical analysis. Students should understand sums, differences, &quotientsfor all activities, have improved their arithmetic skills. To understand 'moments' as a convenient and unifyingmethod for summarizing several descriptive statistical measures. The students should be able to develop original thinking forformulating new problems and providing their solutions, increasing Disciplinary Knowledge.
6	MTC-112	Discrete Mathematics	 Identify an appropriate probability distribution for a givendiscrete or continuous random variable and use its properties to calculate probabilities. Calculate probabilities for joint distributions includingmarginal and conditional probabilities.

			3. Derive expressions for measures such as the
			mean andvariance 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.
			1. Students will be able to apply concepts
			,tools andtechniques used in business
			statistical analysis.
			2. Students should understand sums, differences,
			"ientsfor all activities, have improved their
_	CCCT 111	Descriptive	arithmetic skills.
7	CSST-111	Statistics	3. To understand 'moments' as a convenient and
			unifyingmethod for summarizing several
			descriptive statistical measures.
			4. The students should be able to develop original
			thinking forformulating new problems and
			providing their solutions,
			increasing Disciplinary Knowledge
			1. Identify an appropriate probability distribution for
			a givendiscrete or continuous random variable
			and use its properties to calculate probabilities.
			 Calculate probabilities for joint distributions
	CSST-112	Mathematical Statistics	includingmarginal and conditional
			probabilities.
8			-
0			3. Derive expressions for measures such as the
			mean andvariance 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.
<u> </u>			1. Develop modular programs using pointers.
		Advanced 'C'	2. To understand the concept of arrays, strings.
9	CS-121	Programming	3. To develop program using structures and union.
		Fiogramming	4. To working with files.
			5. Write C Program using substitution
			1. Students will be able to understand the PLSQL.
			2. Students will be able to understand Transaction
			Conceptsand concurrency control.
			3. Students will be able to understand Database
	CS-122	Relational	Integrity and Security Concepts, encryption
10		Database	technique for security.4. Students will be able to understand Crash
10		Management	4. Students will be able to understand Crash Recovery, Recovery with concurrent
		Systems	transactions.
			5. Students will be able to understand Other
			Databases like XML Databases, NoSQL Database,
			Multimedia Databases,
			Big Data Databases.
1			

11	ELC-121	Instrumentation System	 To study Instrumentation System To study various blocks of Instrumentation System To study Smart Instrumentation System
12	ELC-122	Basics of Computer Organisation	 To get familiar with concepts of digital electronics. To learn number systems and their representation To understand basic logic gates, Boolean algebra and K-map. To study arithmetic circuits, combinational circuits and sequential circuits
13	MTC-121	Linear Algebra	 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. Students will be able to understand about Eigen values and Eigen vectors ,The characteristic equation , Diagonalization , Eigen vectors and Linear transformations. Students will be able to understand about inner product,length and orthogonality , Orthogonal sets , OrthogonalProjections , Diagonalization of Symmetric Matrices , Quadratic forms. Students will able to learn about the Geometry of vector, Affine combinations , Affine independence , Convexcombination.
14	MTC-122	Graph Theory	 The students should be able to work with graphs and identify certain parameters and properties of the givengraphs. The students should be able to perform certain algorithms, justify why these algorithms work, give some estimates of the running times of these algorithms. The students should be able to solve basic exercises of thetype: given a graph with properties X, prove that the graphalso has property Y. Students will understand various types of trees and methods for traversing trees
15	CSST-121	Methods of Applied Statistics	 How to calculate and apply measures of location and measures of dispersion .To determine whether the correlation is significant. How to calculate the simple linear regression equation for a set of data and know the basic assumptions behind regression analysis. To demonstrate the ability to apply fundamental concepts in exploratory data analysis. 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	 Understand the difference between a discrete and continuous probability distribution. Recognize the logic behind a hypothesis test and how itrelates to the P-value. Demonstrate knowledge of the properties of parametric, semi-parametric and nonparametric testing procedures. To provide students with an opportunity to develop skills in modeling and simulating a variety of

			management % related problems
17	CS-231	Data Structures using and Algorithms-I	 To use well-organized data structures in solving various problems. To differentiate the usage of various structures in problem solution. Implementing algorithms to solve problems using appropriate data structures
18	CS-232	Software Engineering	 Compare and chose a process model for a software project development. Identify requirements analyze and prepare models. Prepare the SRS, Design document, Project plan of a given software system.
19	ELC-231	Microcontroller Architecture & Programming	 To write programs for 8051 microcontroller To interface I/O peripherals to 8051 microcontroller To design small microcontroller based projects
20	ELC-232	Digital Communication and Networking	 Define and explain terminologies of data communication Understand the impact and limitations of various digital modulation techniques To acknowledge the need of spread spectrum schemes. Identify functions of data link layer and network layer while accessing communication link To choose appropriate and advanced techniques to build the computer network
21	MTC-231	Groups & Coding Theory	 Study core properties of integers. Study concepts from group theory such as binary operations and the properties of binary operations Understanding concept of groups, subgroups and group of permutation. Understanding concept of transmission techniques, detecting & correction errors of transmission.
22	MTC-232	Numerical Technique	 Apply appropriate numerical methods to solve the problem with most accuracy. Study different algorithmic techniques that are used to solve problems of approximation and of interpolation. Learn different methods to solve problems of numerical integration Determine approximate solution of ODE and system of linear equation.
23	CS-241	Data Structures using and Algorithms-II	 Implementation of different data structures efficiently Usage of well-organized data structures to handle large amount of data Usage of appropriate data structures for problem solving

24	CS-242	Computer Network-I	 Have a good understanding of the OSI and TCP/IP Reference Models and in particular have a good knowledge of Layers. Understand the working of various protocols. Analyze the requirements for a given organizational structure and select the most appropriate networking architecture and technologies
25	ELC-241	Embedded System Design	 To understand the difference between general computing and the Embedded systems To know the fundamentals of embedded systems Understand the use of Single board Computer (Such as Raspberry Pi) for an embedded system application. Familiar with the programming environment to develop embedded systems and their interfaces with peripheral devices. To develop familiarity with tools used to develop in an embedded environment.
26	ELC-242	Wireless Communication and Internet of Things	 Know working of wireless technologies such as Mobile communication, GSM, GPRS Become familiar with 3G and 4G Cellular Network Technologies for Data Connections. Understand working principles of short range communication application Get introduce to upcoming technology of Internet of Things Explore themselves and develop new IoT based applications
27	MTC-241	Computational Geometry	 Demonstrate knowledge of key notions and principles related to 2 dimensional transformations. Analyze problem and compute the appropriate solution Demonstrate knowledge of key notions and principles related to 3 dimensional transformations. Analyze problem and compute the appropriate solution State and apply different types of projections on an object. Compute points of standard curves using recursive formulae. Construct Bezier curves of order 2 and order 3.
28	MTC-242	Operation Research	 Understanding the concept of modelling with linear programming and simplex method. Understanding the concept of duality of linear programming problems. Understanding the concept of assignment models. Understanding the concept of transportation models
29	CS-331	System Programming	 Concept of system programming and application programming. Introduction to different system software. Working of hypothetical machine Concept of Editor. Types of Editor. Design of

			 commands of Line Editor. 3. Design of Assembler. Types of assembler, Working of Assembler with example. How assembly language process and generate the object code. 4. Design structure of macro processor. Data structures, attributes used in macro processor. Expansion of Macro. 5. Concept of compiler and interpreter, pure and impure interpreter. 6. Concept of Linker and Loader. How the relocation takes place. Type of Loaders, different type of object file format generated. 7. Debugging functions and capabilities. Different type of debugger. Different type of development utilities available on Linux/Unix environment 8. Need of Operating system. Introduction to different functions of operating system like memory management, process scheduling process management etc. Concept of distributed system, special purpose systems. 9. Different operating system calls forimplementing OS functions.
30	CS-332	Theoretical Computer Science	 To have an understanding of formal language with its operations and regular expressions. To have an understanding of finite state machine. Students will also get the knowledge of construction of DFA, NFA with their inter-conversion. To have an understanding of output machines and their conversion To have an understanding of finite state machine. Students will also get the knowledge of construction of DFA, NFA with their inter- conversion. To have an understanding of output machines and theirconversion To know the relation between regular language, context free language and corresponding Recognizers, closure properties of context free languages To have an understanding of finite state and pushdown automata, conversion of CFG to PDA To study the Turing machine, Pumping lemma and classes of problems, limitations of Turing machine.
31	CS-333	Computer Networks-I	 Students will be able to understand basics of Computer Networks- Network Hardware topologies. Understand the concept of networking models OSI Reference Model, TCP/IP Reference Model Learn basic networking hardware and tools. Understand the functionality of physical layer

			Analog and Digital signals.
			4. Understand the functionality of data link layer
			Design Issues, Protocols, Devices
			 Learn basic networking hardware and tools of
			medium access control
			1. Students will be able to understand basics of Web
			Server and Web Browser
			 Knowledge of functions and string used in PHP.
			 Concept of Arrays in PHP like Indexed Array &
		T	Associative Array.
32	CS-334	Internet	 Object Oriented Concepts like Class, Objects,
		Programming- I	4. Object Offented Concepts like Class, Objects, Introspection, Inheritance, Constructor etc.
			 Students will able to work with Files handling
			Connection of PHP code with external
			connection of 1111 code with external
			resources like PostgresSQL.
			1. Students will be able to learn the object oriented
			programming concepts, features of java, simple
			java programming.
			2. Students will be able to learn java programming
		Programming in Java-I	through command line argument and also using
			Buffered Reader class.
	CS-335		3. Students will be able to learn the implementation
			of packages, garbage collection.
			Students will be able to learn the principles of
33			inheritance and polymorphism; and demonstrate
			how they relate to the design of abstract classes and
			interfaces.
			5. Students will be able to learn how to handle
			exceptions in Java.
			6. Students will be able to learn Java programs
			related to Strings, Files
			7. Student will be able to learn the design of
			Graphical User Interface using AWT & Swing.
			8. Student will be able to learn the design of
			Graphical User Interface using applets.
			1. Understanding importance of Object Orientation in
			Software engineering.
			2. Understand the components of Unified Modeling
			Language
			3. Understand techniques and diagrams related to
		Object Oriented	basic structural modeling
34	CS-336	Software	4. Understand techniques and diagrams related to
		Engineering	Advanced Structural modeling
		Linginoering	5. Understand techniques and diagrams related to
			behavioral modeling
			6. Understand techniques of Object Oriented
			analysis.
			7. Understand techniques of Object Oriented design.
			8. Understand techniques and diagrams related to
1			Architectural modeling

			9. Understand techniques of Object Oriented testing
35	CS-341	Operating System	 Understand the concept of Operating Structure, Virtual machine, Booting Process. Student understands the concept of process. Different states of process, management of process, Communication between processes. Concept of Multithreading. Implementation of different models of multi threading. Understand the Concept CPU and I/O burst cycle, different scheduling criteria. Implementationof scheduling To understand the implementation of Critical section. Use of Semaphore to handle critical section. To understand the classic problems of Bounded Buffer. To understand the concept of Deadlock situation. To handle Deadlock various methods used. How to avoid deadlock using Bankers Algorithm. To understand the different recovery technique for deadlock. To understand the Memory management handling functions, Memory Allocation concept, Paging, Segmentation, Virtual Memory management, Paging concept, implementation of page replacement algorithms. To understand the concept of File, different access methods for file, directory and disc structure, Allocation of files in memory and how to manage free space while allocation.
36	CS-342	Compiler Construction	 To have an understanding of compilers with its structure, Phases, Error handling along with pass structure of compiler. To have an Review of Finite automata as a lexical analyzer, Input buffering, Recognition oftokens, LEX programming. To understand a types of Parsers along with their construction. Students will also get the knowledge about YACC Students will understand Syntax Directed Definition, issues related Syntax Directed Definition, its evolution order AND translation schema. To have an understanding of memory allocation and memory allocation in block structure To study the Code Generation and Optimization and Issues in design of code generator
37	CS-343	Computer Networks-II	 Understand wired and wireless networks Ethernet, Backbone Networks Bus Backbone, Connecting Remote LANs, Virtual LANs Membership, Configuration, Communication between Switches, IEEEstandards Advantages. Students will be able to apply IEEE 802.11 Architecture – Basic Service Set, Extended

			 Service Set, Station Types. 3. Students will be able to understand of Basic networking concepts Store-and-forward packet switching, Virtual Circuit and Datagram subnets, Logical Addressing IPV4 Addresses, Classfull Addressing. 4. Protocol(ARP)-Cache Memory, Packet Format, Encapsulation, Operation, Four Different Cases, Proxy ARP, RARP, BOOTP, DHCP. 5. Understand functionality of layer Process- to- Process Delivery UDP, TCP. 6. Understand functionality of layer Domain Name System (DNS) POP3, IMAP4, HTTP ,Proxy Server, Gateways –Transport & Application Gateways 7. Understand importance of network securityand cryptography, Authentication.
38	CS-344	Internet Programming- II	 Students will be able to learn how to process HTML forms, how to set the Cookies and Session also how to upload the files on server. Protocols used to send Mail over Internet, mail function, validation and verification of Mail using Filters and Regular Expression. Get the knowledge about different PHP Frameworks. Got the difference between XML & HTML, How to extract data of XML using parser like DOM. Students will able to learn Java Script, Functions used in Java Script, Events used in Java script. Learn How to develop Interactive Application Using AJAX techniques and how to handle back end processing.
39	CS-345	Programming in Java-II	 Students will be able to learn collection framework like lists, sets, maps, interfaces. Students will be able to learn to implement database program in Java. JDBC drivers. Students will be able to learn to implement servlet programs, lifecycle of servlet. Students will be able to learn to implement programs using JSP tags, lifecycle of JSP. Students will be able to learn multithreaded programs, lifecycle of thread. Students will be able to learn to implementsocket programs, server socket programs
40	CS-346	Computer Graphics	 To study how graphics objects are represented in Computer To study how graphics system in a computer

			 supports presentation of graphicsinformation. To study how interaction is handled in a graphics system. 3. To Study different line drawing algorithm and polygon filling algorithm 4. To study how to manipulate graphics object by applying differenttransformations 5. To Study the line, point and polygon clipping. 6. Have a knowledge and understanding of geometrical transformations and 3D viewing. 7. To provide the programmer's perspective of working of computer graphics.
41	CSUT111	Paradigm of Programming Language	 Develop a greater understanding of the issues involved inprogramming language design and implementation. Students will be introduced with several paradigms of Programming Languages. Develop ability to learn newlanguages more quickly. They will get in-depth knowledge of various conceptsrelated to programming, compiler etc. To understand the concept of functional programminglanguage Develop ability to learn and write small programs indifferent programming Languages They will able to apply various algorithms to solve somereal life problems/issues. Able to Understand the Various concept of Scala Programming Language.
42	CSUT112	Design and Analysis of Algorithms	 To study Basics of Algorithms To study Divide and conquer strategy To study Greedy Method To study Dynamic Programming To study Decrease and Conquer To study Backtracking method To study Branch and Bound To study Problem Classification
43	CSUT113	Database Technologies	 Students will be able to understand the mechanism for storage and retrieval of data other than tabular relationsmodel used in relational databases. Knowledge related to NoSQL . It is essential for students to have knowledge of SchemaMigrations in detail related with NoSQL. Students will understand a polyglot persistence term.Also students will learn a multi-model database It gives an overview of modern databases for today'sbusiness needs. Students will be able to understand which database should be selected based on their product needs.
44	CSDT114C	Web Services	1. To understand the details of web services technologies like WSDL,UDDI, SOAP

			 To learn how to implement and deploy web service client and server To explore interoperability between different frameworks To understand the concept of RESTful system.
45	CSUT121	Advanced Operating System	 To learn about Unix System Architecture and concepts ofLinux Programming. Students will be able to understand Buffer pool and Buffer header, structure of regular file, Atomic operations offile, manipulating file permissions, different file access functions. Students learn about the Process Environment, Process Control and Process Relationships. Different system calls tohandle process creation, process termination, and manipulation of process. Students will be able to learn memory management of operating systems. Different system calls related to Memoryallocation, Memory mapping, and anonymous memory allocation. Students are able to understand the signal handling concept. To manipulate signal different system calls are implemented.
46	CSUT122	Mobile Technologies	 Students will be able to understand the concept of mobile computing and its need, also Mobile and Wireless devices, Mobile Applications, Mobile Operating system – IOS, BlackBerry, Windows phone,Palm OS, Symbian OS, Phone Gap Knowledge of Android Fundamentals are studied indetail Android UI Design knowledge and its use is studied indetail. It is essential for students to have knowledge of Android Thread and Notification Students will be able to learn Advanced Android Programming in detail and they will be able create appsby learning Advanced Android Programming. Knowledge of Phone Gap Programming is studied in detail and students will be able create apps by learningPhone Gap Programming. Knowledge of iOS Fundamentals are studied in detail
47	CSUT123	Software Project Management	 To study Introduction to Project Management To study Project Management Components To study Scope Management To study Time management To study Cost Management To study Quality Management To study Human Resource Management To study Communication Management To study Risk Management To study Procurement Management To study Software Metrics

48	CSUT231	Software Architecture and Design Patterns	 To study Software Reliability To study Planning a measurement program To study Quality Standards Recognize the characteristics of patterns that make it useful to solve real-world problems. Process available data using python libraries and predict outcomes using Machine Learning algorithms to solve given problem. Able to use specific frameworks as per applications need. Design java application using design pattern techniques.
49	CSUT232	Machine Learning	 Recognize the characteristics of machine learning that make it useful to real-world problems. Process available data using python libraries and predict outcomes using Machine Learning algorithms to solve given problem. Able to estimate Machine Learning models efficiency using suitable metrics. Design application using machine learning techniques.
50	CSUT233	Web Frameworks	 Students will be ready with the technology which is used widely in Industry as a part of full stack developer. Students will know the powerful way to develop the web application in Python. Students will understand what really the asynchronous programming. Build and deploy robust Django Web App. Integrate with Restful web services.
51	CSDT234A	Big Data Analytics	 Recognize the characteristics, applications of big data that make it useful to real-world problems. Process available data using big data tools hadoop file system and predict outcomes to solve given problem. Study & Design various case studies using big data tools/commands and analyse it.