## VIVEKANAND COLLEGE, KOLHAPUR (AUTONOMOUS)

# Programme Outcomes, Programme Specific Outcomes and Course Outcomes

## B. A. Programme

Student are expected to imbue with following quality which help them in their future life to achieve the expected goals

- **PO 1.** Ability to practice human values
- PO 2. Responsible and sensible citizen
- **PO 3.** Devotion to social service
- PO 4. Critical thinking and application of knowledge
- PO 5 .Engagement in community work and global understanding

### **B.** Com Programme

- PO 1: Understand and application of basics of commerce, accounting and economics.
- PO 2: Effective business communicators
- **PO 3:** comprehend and write reports
- **PO 4**: Design/development of business solutions through problem analysis
- PO 5: Functioning of various components of business environment
- PO 6: Instill abilities and skills related to business ideas

#### **B. Sc. Programme**

- **PO1** To acquire the knowledge with facts.
- **PO2** To understand the basic concepts, fundamental principles and scientific theories related tomatter and energy.
- **PO 3** To acquire the skills in handling scientific instruments.
- **PO 4** To develop scientific outlook with respect to science subjects.
- **PO 5** To analyze the given scientific data critically and systematically.
- PO 6 To realize ethical moral and social values in personal and social life.

1		Department of English		
	PSO 1	Know development, themes and elements of the short story.		
	PSO 2	Develop interest in and appreciation of Literature.		
	PSO 3	Interpret texts with due sensitivity to both textual and contextual cues.		
	PSO 4	Improvement of language through grammar skills.		
	PSO 5	Basic knowledge of the nature of language and of the importance of language study in society.		
	PSO 6	Acknowledgement of the basic principles and goals of Translation		
	PSO 7	Fundamental understanding of core areas of language analysis including phonology, morphology, syntax, semantics and pragmatics.		
	PSO 8	Recognition and utilization of basic empirical research methods in Translation.		
	PSO 9	Get familiar with representative literary texts within a significant number of historical, geographical, and cultural contexts		
	PSO 10	Understand texts in their cultural and historical contexts		
	PSO 11	Demonstrate coherent writing in multiple genres (literary analysis and creative writing) as well as an awareness of critical and interpretative methods.  Performcompetent close readings of texts.		
	B.A. Part I	DSE (Core Paper I)Introduction to English Language and Literature		
		10'		
	CO1	After completion of this course, the students will be able to: Know development, themes and elements of minor forms of literature, especially one act play.		
	CO2	Identify morphemes and word formation processes.		
	CO 3	Translate simple sentences.		
	CO 4	Use English proverbs & phrases in real-life situations.		
		appreciate literary texts based on the knowledge of genre and elements.		
		Paper III & Paper V Language and Linguistics		
	CO1	Grasp the complexity of language as a communication system shaped by cognitive, biological, cultural, and social factors.		
	CO2	Understand the concepts, theories, and methodologies used by linguists in qualitative and quantitative analyses of linguistic structure, and patterns of language use.		
	CO 3	Realize the role of language in reflecting and constructing social identities.		
	CO 4	Apply the knowledge gained of the selected areas of linguistics in other academic		
		contexts.		
7		Paper IV & Paper VI Forms of English Literature		
	CO1	Apply critical and theoretical approaches to the reading and analysis of literary texts of multiple genres.		
	CO2	Identify, analyze, interpret and describe the critical ideas, values, and themes that		
		appear in literary texts		
	CO 3	Analyze literature using appropriate terminology and common rhetorical figures.		

	CO 4 Develop intellectual flexibility, creativity and linguistic literacy so that the engage in life-long learning.						
	CO 5	Employ knowledge of literary traditions to produce creative writing.					
	B.A. I Sem I	AECC English for Communication (1011 A)					
	CO1	After completion of this course, the students will be able to: Revise the grammatical rules and use the language grammatically correct.					
	CO2	Improve English vocabulary and use it in real-life situations.					
	CO 3	Produce narrative texts creatively.					
	CO 4	Use the language confidently according to different needs in different contexts					
	B.A. I Sem II	AECC English for Communication (1011 B)					
	CO1	After completion of this course, the students will be able to: use the language grammatically correct.					
	CO2	acquire the skills of communication in real-life situations.					
	CO 3	produce descriptive texts creatively					
	CO 4	develop the language skills effectively.					
2	Department	History					
	PSO 1	The purpose of the History is to enable the student to Understand the important developments in the Historical Research in a thematic approach.					
	PSO 2	To examine and criticize various revolutions & world wars along with their impact on history.					
	PSO 3	To adequate students with life, work and contribution of social reformers & freedom fighters in india and world.					
	PSO 4	To understand the application of history with reference to Archives, Museums &					
	D A T	Tourism Industry.					
	B. A. I SEM-I	Course Name :B.A.I- DSC-1020 A History of Ancient India – I					
	CO 1	To Get acquainted with different aspects of reconstruction of ancient Indian					
		history.					
	CO2	To Understand the Cultures in Ancient Maharashtra & Dry Indus valley					
	13/1	Civilization					
	CO3	To Get acquainted with Stone Age Cultures.					
(1)	CO4	Glimpses on Vedic & Description (Control of the Control of the Con					
1	B. A. I	Course Name :B.A.I- DSC-1020 A					
	SEM-I CO 1	History of Ancient India – II  To Understand Art- Architecture & Description of the Architecture and the Architect					
	CO2	Get acquainted with Mauryan Dynasty.					
	CO2	To Study Religious reformation in 6 th century BC.					
	CO3	To study the age of Gupta Empire.					
1	CO 5	Glimpses on Vedic & Description of the Control of t					

	B.A. II Sem III	History of Modern Europe –I DSC-1020 C-1
	CO 1	Examine the French revolution & Examp; its various aspects.
	CO2	Get acquaint with salient features of Age of Napoleon & Damp; Metternich
	CO3	Understand the unification of Germany & Description & Des
	B.A. II Sem IV	History of Modern Europe –II DSC-1020 D-1
	CO 1	Criticize first world war and its consequences
	CO2	Study the age of Bismarck and his internal- External Policy.
	CO3	Get acquaint students with Rise of Dictatorship in Modern Europe
		Study the highlights of second world war and its consequences
		Making of Modern India (1757-1947) DSC-1020 C-2
	CO 1	Examine the Establishment and Expansion of British East India Company
	CO2	Criticize 1857 Revolt and its consequences
	CO3	Understand the rise of Indian Nationalism & Description and State of Indian National Congress
	CO4	Get acquaint with salient features of Age of Tilak
	CO5	Criticize Mahatma Gandhi's contribution in Indian Freedom Struggle
		Towards Independence DSC-1020 D-2
	CO 1	Study the highlights of Revolutionary Movements and its consequences
	CO2	Understand critically the partition and Independence of India
	CO3	Examine the Constitutional Development Acts in British India
	CO4	Get acquainted with salient features of Indian Constitution
	B.A. II Sem III	History of Social Reformers in Maharashtra –I DSC-1025 C
	CO 1	Examine the Socio-Economic & Ditical condition of Maharashtra in 19 th century
	CO2	Criticize British Rule over India through its administration, Law & Dustice
	CO3	Study & Description of Examine the contribution of early social reformers in Maharashtra
	CO4	Adequate with life & Damp; work of Mahatma Jyotiba Phule
		History of Social Reformers in Maharashtra –II DSC-1025 D
	CO 1	Criticize the contribution of Social Movements in Maharashtra
	CO2	Study & Drawn Study &
		Maharashtra
11	CO3	Understand the highlights of Educational Contributions of Educational
11,		Reformers in Maharashtra
3	Department	Geography
J	PSO 1	Explain the scope of the Geography.
	PSO 2	Explain the concepts, theories and models of Geography
	PSO 3	Understand the new trends in Geographical studies.
	PSO 4	Understand the Geographical issues of local to global level with
	- 55 1	reference to resources.

PSO 5	Develop scientific thinking for analyzing environmental issues.
PSO 6	Develop the knowledge and thinking power for solution for Geoenvironmental Problems.
BA I Sem I	Physical Geography
CO 1	To develop a keen interest in Geography subject.
CO 2	Explain to be familiar with concepts of Physical Geography.
CO 3	Analyze the Geo-environmental issues around world.
BA I Sem II	Human Geography
CO 1	To introduce basic conceptual framework of Human Geography.
CO 2	To cultivate basic knowledge of Human Geography through understanding and analysis .
CO 3	To help a holistic understanding the issues related to Human Geography.
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BA I Sem I	Science Technology and Development (GEC) - 1
CO 1	To Familiar the students with various dimension of Science and Technology.
CO 2	To understand latest concept in Science and Technology.
CO 3	To develop scientific thinking among students.
BA I Sem II	Science Technology and Development (GEC) - 2
CO 1	To narrate the challenges and confronting the science and technology.
CO 2	To laterally understands the problem solving scientific method.
CO 3	To develop research thinking among students.
B.A. II Sem III	Soil Geography, DSC-1022C1
CO 1	Students should be able to understand significance of soil geography which is the fundamental branch of Physical Geography.
CO 2	Students should be able to compare and relate soil is key resource for the development of any country.
CO 3	Students should be able to make use of various models of soil formations.
CO 1	Students should be able classify soil degradation and soil distribution in Maharashtra
CO 4	Students should be able to use soil sample tools. vi) Students should learn to
0	analyse saline and alkaline soil and comprehend vermi compost process
 CO 5	vii) Students should be familiar with the concept, need and methods soil of
	management
B.A. II Sem III	Resource Geography, DSC-1022C2
CO 1	Students should know Resource geography is the fundamental branch of
	Physical Geography.
CO 2	Students understand mineral resource is key resources for the development of any country.
CO 3	Students should know forest and energy resources.

	CO 4	Students should know approaches in resource management and concept of sustainability.
	CO 5	Students should know principles of energy conservation and Indian
		Renewable energy Programme
	B.A. II Sem IV	Oceanography, DSC-1022D1
	CO 1	i) Students should be able to define nature and scope of oceanography.
	CO 2	ii) Student should be able to describe temperature, salinity and currents of ocean.
	CO 3	iii) Students should be able to classify ocean deposits.
	CO4	iv) Students should be acquainted with practical's related to oceanography
	CO4	i.e. hypsographic curve, wind rose, Isohalines and isotherms.
	B.A. II Sem IV	Agricultural Geography , DSC-1022D2
	CO 1	1. Students be able to understand the concept and development of Agriculture.
	CO 2	2. Students be able to inspect the role of agricultural determinants towards the changing cropping pattern.
	CO 3	3. Students be able to revise the Green Revolution.
	CO4	4. Students be able to know agricultural concepts and modern technologies used in Agriculture.
		100
1	Department	Political Science
	PSO 1	Narrate the scope of the discipline of Political Science.
	PSO 2	Explain the major concepts, theories of Political Science and the thought of Political thinkers.
	PSO 3	Understand the bases and structure of modern governments.
	PSO 4	Analyze the political issues of local, regional, national and global level.
	PSO 5	Comment on important political issues in a studied manner.
	PSO 6	Develop the knowledge base for competitive examinations
	BA I Sem I	POLITICAL SCIENCE-DSC – 19 A
		(Basic Concepts in Political Theory)
	CO 1	Visualize the broad areas of Political Science.
	CO 2	Explain the basic concepts used in political theory.
		1 1
	CO 3	Analyze the socio-political issues around them with the help of these concepts.
		Analyze the socio-political issues around them with the help of these
	CO 3	Analyze the socio-political issues around them with the help of these concepts.
	CO 3	Analyze the socio-political issues around them with the help of these concepts.  POLITICAL SCIENCE-DSC – 19 B
	CO 3  BA I Sem II	Analyze the socio-political issues around them with the help of these concepts.  POLITICAL SCIENCE-DSC – 19 B  (Indian Constitution)  Narrate the background and history of making of the Indian Constitution.
	CO 3  BA I Sem II  CO 1	Analyze the socio-political issues around them with the help of these concepts.  POLITICAL SCIENCE-DSC – 19 B  (Indian Constitution)  Narrate the background and history of making of the Indian Constitution.  Explain the broad philosophy of Indian Constitution.
	CO 3  BA I Sem II  CO 1  CO 2  CO 3  B.A. II Sem III	Analyze the socio-political issues around them with the help of these concepts.  POLITICAL SCIENCE-DSC – 19 B  (Indian Constitution)  Narrate the background and history of making of the Indian Constitution.
	CO 3  BA I Sem II  CO 1  CO 2  CO 3  B.A. II Sem III  CO 1	Analyze the socio-political issues around them with the help of these concepts.  POLITICAL SCIENCE-DSC – 19 B  (Indian Constitution)  Narrate the background and history of making of the Indian Constitution.  Explain the broad philosophy of Indian Constitution.  Elaborate the structure of Indian state.  Political Process in India (DSC 1019 C1)  1) To give an overview of electoral system and party politics in India.
	CO 3  BA I Sem II  CO 1  CO 2  CO 3  B.A. II Sem III	Analyze the socio-political issues around them with the help of these concepts.  POLITICAL SCIENCE-DSC – 19 B  (Indian Constitution)  Narrate the background and history of making of the Indian Constitution.  Explain the broad philosophy of Indian Constitution.  Elaborate the structure of Indian state.  Political Process in India (DSC 1019 C1)
	CO 3  BA I Sem II  CO 1  CO 2  CO 3  B.A. II Sem III  CO 1	Analyze the socio-political issues around them with the help of these concepts.  POLITICAL SCIENCE-DSC – 19 B  (Indian Constitution)  Narrate the background and history of making of the Indian Constitution.  Explain the broad philosophy of Indian Constitution.  Elaborate the structure of Indian state.  Political Process in India (DSC 1019 C1)  1) To give an overview of electoral system and party politics in India.

	CO 1	1) To introduce students to the based strongly of the webt that constituted the	
	COT	1) To introduce students to the broad strands of thought that constituted the modern Indian political thinking.	
	CO 2	2) To introduce students to the early Indian political thought.	
	D A II Com III	Political Process in Maharashtra (DSC 1019 D1)	
	CO 1		
	CO 2	1) To introduce students to issues in politics of Maharahstra.	
		2) To introduce students to the trajectory of politics in Maharshtra.	
	CO 3	1) To impart analytical skills for understanding the social and political issues around them.	
	B.A. II Sem IV	Western Political Thought – I (DSC 1019 D2)	
	CO 1	1) To introduce students to the themes in early and medieval political thought.	
	CO 2	2) To introduce students to the evolution of some basic ideas in Western Political Thought.	
	CO 3	3) To enhance students' cognitive skills through the study of thought.	
5	Department	Sociology	
	PSO 1	Basic concept and principles can be studied	
	PSO2	Social Problems can be studied and solutions can be find out	
	PSO3	Students will get Inspiration for new research	
	PSO4	Students will be motivated towards Entrepreneurship and Occupation	
	PSO5	Students will be Motivated towards Social development	
	PSO6	Students will be awaken about Gender equality	
	BA I Sem I	Paper Introduction to sociology	
	CO 1	The Important basic Concept can be Understand Students will understand Social Structure	
	CO3	The Social values can be Imbibe	
	CO4	The Background of Evolution of Sociology can be Understand	
	BA I Sem II	Paper-II Principles of sociology	
	CO 1	Students will understand Fundamental concept of Sociology	
	CO2	Helpful for Students Development	
	CO3	Helpful for Social Change	
	CO4	The positive changes can be happen in students Personality	
	BA II Sem III	Structure of Indian Society -Paper No.III(DSC-1021C1)	
	CO 1	To knowledge of Indian society and the importance of social unity.	
	CO2	To inspired by the sense of cultural separation in various groups and competent with political, education, financially.	
	BA II Sem IV	SOCIAL CHANGE IN INDIAN SOCIETY (DSC-1021D1)	
	CO 1	To know about the new economic policy for the speed of social innovation	
		and the establishment of	
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		the industry.		
	CO2	To inspired by the duties and motivating to do social work.		
	BA II Sem III	SOCIAL PROBLEMS IN INDIA.(DSC-1021C2)		
	CO 1	To creating social awareness and participating in social work will inspire population control.		
	CO2	To eradicate poverty, we will be aware of various schemes and information regarding redressed of drought.		
	BA II Sem IV	SOCIAL PROBLEMS IN CONTEMPORARY INDIA.(DSC-1021D2)		
	CO 1	To help prevent female feticide and farmers suicides.		
	CO2	To the social duty will be realized.		
	Department	Economics		
	PSO 1	Students will be able to analyze the economic and institutional arrangements o firms, industries, organizations, specific regions and countries.		
	PSO 2	Students will understand the role of government and regulatory framework in the process of economic development.		
	PSO 3	Apply research knowledge in economics		
	PSO 4	Students will be able to analysis the current issues of the economies.		
	PSO 5	Students will be able to apply micro and macro economic theories and principles to explain the behaviour of individuals, business firms and industrie with their interrelationship.		
	B.A.I/SEM I	Indian Economy Paper –I, DSC-1018A		
	CO 1	Understand nature and characteristics of Indian economy.		
	CO 2	Know various issues and challenges before Indian economy		
	CO3	Understand role of Agricultural and Industrial sector in economic development		
	B.A.I/SEM II	Indian Economy Paper –II, DSC-1018B		
	CO 1	Understand role of service sector in process of economic development		
	CO 2	Know implementation and impact of economic reforms		
	CO3	Understand social security and labour market		
	B.A. II Sem III			
		Course Code:DSC-1018C1		
	CO 1	CO1. Understand macro-economic variables		
	CO 2	CO2. Realize macro-economic theories of output and employment.		
	CO3	CO3. Understand impact of change in general price level.		
	CO4	CO4. Analyze consumption and investment function.		
7	B.A. II Sem IV			
		Course Code: CC-1018 D1		
	CO 1	CO1.Understand phases of business cycle		
	CO 2	.CO2. Expresses public finance and economic development.		
	CO3	CO3. Explains export, import and foreign trade deficit and balance of payment concepts		
		payment concepts		
	CO4	CO5. Students will be able to analysis the current issues of the economies		

		DGC 1010 C2
	GO 1	DSC-1018 C2
	CO 1	CO1. Understand commercial banks with their functions.
	CO 2	CO2. Know bankers and bank customer's rights and obligations.
	CO3	CO3. Know central bank and its various policies.
	CO4	CO4. Analyze need and impact of monetary policy
	DA HC IV	
	B.A. II Sem IV	Banks and Financial Institutions –II,
		DSC-1018D2
	CO 1	CO1. Understand Indian financial market.
	CO 2	CO2. Know the different development banks and their reforms.
	CO3	CO3. Understand e-banking sources and their functions.
7	Department	HOME SCIENCE
,	PSO 1	Understand the role of food and nutrition for the welfare of self and community
		and applyscientificand analytical principles and techniques of food and nutrition in
		diet formulation.
	PSO 2	Gain knowledge in textile production techniques and Acquire skill in textile
	1502	Dyeing and printing.
	PSO 3	Relate the principles of Human Development with self, family and Society and
	1303	manage life crisis at every stage of life span.
	PSO 4	Exhibit efficient resource use potentials at home and work and appreciatenuances
	F3O 4	of value based quality life skill oriented learning.
	B. A. I	Course Name-I. Fundamentals of Food and Nutrition
	SEM-I	Course Name-1. Fundamentals of Food and Nutrition
	CO1	Students will be able to relate between food, Nutrition and health
	CO2	Students will be able to classify food groups and explain Nutritional contribution
	CO2	& Physical changes during cooking
	CO 3	Students will be able to Identify nutrients& write their functions, dietary
	CO 3	sources and deficiency.
	CO 4	Students will be able to choose methods of cooking for Preventing Nutrient
	CO 4	Losses in cooking
	CO 5	Students will be able to modify their foods in Nutritious food
	B .A.I/Sem II	Course Name –II. Family Resource Management
	D .A.1/Selli II	Course Name -11. Family Resource Management
	CO1	Students will be able to explain the concept and process of family resource
	COI	
	CO2	management Students will be able to classify of family resources and identify for
	CO2	development of self as a resource with SWOC analysis.
	CO3	Students will be able to Preparation of money and time Management for self &
		family
	CO4	Students will be able to apply managerial process in event Planning Management
	CO4	and evaluation
	B.A. II Sem III	Home Science Course – 3 Basics of Interior Design
		Design
	CO1	Student will be able to apply elements and principles of design in interior
1		decoration.
	CO2	
	CO2	Student will be able to classify the colour wheel and demonstrate the colour
	CO2	scheme in interior decoration.
	CO3	Student will be aware to choose of furniture and apply furniture arrangement
		in different rooms .
	CO4	Student will be plan for flower arrangement and able to demonstration and
		preparation of flower decoration.
	CO5	Student will be able to prepare colour wheel colour scheme.
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		nome Science	Course – 4 Introduction to Food Safety and		
		Preservation			
	CO1	Student will be safety.	able to explain the concept of food preservation and food		
	CO2		aware for food safety and food laws, standards, regulations.		
	CO3	Student will be	define the terms of food safety and food preservation.		
	CO4		able to illustrate the methods of food preservation .		
	CO5		able to start food preservation based small scale industry.		
	B.A. II Sem IV	Home Science (			
			of Textile Science and Apparel Construction-I		
	CO1	Student will be	able to classify the textile fibres and yarns.		
	CO2	Student will be	able to illustrate weaves and finishing process.		
	CO3	Student will be construction.	able to explain the terms, tools and equipments of apparel		
	CO4		able to take the perfect body measurement.		
	CO5	Student will be	able to preparation of drafting, cutting, stitching and		
		0 11	arel construction.		
	B.A. II Sem IV	Home Science ( Introduction to	Course – 6 Human Development		
	CO1	To understand the field of Human Development and significance of Human			
		development			
	CO2		derstanding of the various stages if child development prenatal, neonate, infant and child development		
8	Hindi	B.A.I SEM I	बी. ए. आगएक :हिंदीअनिवार्य (GEC1012A & Samp; B) GEC सजगात्मकलेखनऔरहिंदीकहानी (हिंदीअनिवार्य A / Comp. Hindi 1012A)		
		COI	स्तंभ्रतेखन, साक्षात्कारलेखनकीकुशलताछात्रौमैविकसितकरना।		
		CO 2	छात्रौंकेछायाचित्र, कार्टून, रेखाचित्रआदिकीलेखनविधिसेपरिचितकरनौं		
		CO 3	जनसंचारमाध्यमतेखनकेविविधक्षेत्रॉसेछात्रॉकोपरिचितकरना।		
		B.A.I SEM I	GEC संपादनऔरहिंदीकहानी (हिंदीअनिवार्य B /Comp. Hindi, 1012B)		
	~	CO 1	संपादककेउद्देश्यएवंसिद्धांतांसेछा वौकोपरिचितकराना।		
		CO 2	संपादकएवंउपसंपादककेमहत्त्वएवंदायित्वसेछात्राँकोपरिचितकरना।		
	VQ.	CO 3	समाचारपत्रकेविविधस्तंभौसेछात्रौकोपरिचितकराना।		
	13,	B.A.I SEM I	समाचारपत्रोंकीसाज-सज्जासेछात्रोंकोअवगतकराना। DSC कथैतरगद्यसाहित्यऔररचनात्मकलेखन (हिंदीऐच्छिक/Optional Hindi 1016A)		
	0,	CO 1	छात्रॉहिंदीसाहित्यकेप्रतिछात्रॉकीरुचिबद्धानातथासाहित्यकीविविधविधाओंसेअवगतकरा नौ		
11	7	CO 2	निबंध, रेखाचित्र, संस्मरण, व्यंग्यआदिविधाओंकेमाध्यमसेष्ठात्रोंकाभावनात्मकविकासकरना।		
	•	CO 3	हिंदीगद्यकाराँसेछात्राँकोपरिचितकरना।		
		CO 4	छात्राँकीविचारक्षमताऔरसृजनात्मकताकोबढावादेना।		
		B.A.I SEM I	DSC छायावादोत्तरहिंदीकविताऔररचनात्मकलेखन (हिंदीऐप्टिक/Optional Hindi 1016 B)		
		CO I	अयावादोत्तरिहंदीकवियाँसेछात्राँकोपरिचितकरना।		
		CO 2	हिंदीभाषाकेश्रवण, पठनएवंतेखनकीक्षमताओंकोछा श्रॅमैविकसितकरना।		
		CO 2	हिंदीभाषाकेश्रवण, पठनएवंतेखनकीक्षमताऔकोछा बौमैविकसितकरना। नैतिकमूल्य, राष्ट्रीयमूल्यएवंउत्तरदायित्वकेप्रतिछाबौमैआस्थानिर्माणकरना।		

0	h.c	Т	GEC अवकाश-गद्य( मराठीअनिवार्य A /Comp. Marathi 1013A )		
9	Marathi	CO 1	मराठीआषावसाहीत्याविषयीचीविद्यार्थ्याच्यामनातरुचीवाढविने.		
		CO 2	विद्यार्थ्याचेमराठीभाषासाहीत्याचीओळखकरूनदेणे.		
		CO 3	कथा,लतीतलेखववैचारीकलेखनयातूनविद्यार्थ्याचीमानसीकजडणघडणकरणेवबुद्धीकैश ल्याचाविकासकरणे.		
			Valadidativity-1		
		CO 4	सर्जनशीललेखनासाठीसंवादकौशल्यगटचर्चा,		
			मुलाखतवकार्यक्रमसंयोजनाचीमाहितीदेणेवसरावकरूनघेणे. भाषेचीअभिवृद्धीकरणे.		
			GEC अवकाश-पद्य( मराठीअनिवार्य A /Comp. Marathi 1013B )		
		CO 1	प्राचीनवअर्वाचनकाव्यविषयीविध्यार्थ्यांच्यामनातरुचीवाद्वविने,		
		CO 2			
			मराठीसाहित्यपरंपरा, लेखक, कवीयांचापरिचयकरुणदेणे.		
		CO 3	विद्यार्थ्याच्यामनामध्येराष्ट्रीयएकात्मताउच्यमानवीमुल्यवकलेचीजोपासनाकरणे.		
		CO 4	विद्यार्थ्याचाव्यक्तीमत्वविकासघडवूनआनणेविविधपरीक्षाआणि स्पर्धापरीक्षांचीतयारीकरूनघेणे		
			स्पंचापराक्षाचातयाराकरूनघण बी. ए. भागएक: मराठीऐच्छिक (DSC1015 A & B)		
			DSC संवाद-गद्य (मराठीऐच्छिक/Optional Marathi 1015A)		
		CO 1	विद्यार्थ्याचेमराठीभाषासाहीत्याचीओळखकरूनदेणे.		
		CO 2	मराठीभाषावसाहीत्याविषयीचीविद्यार्थ्याच्यामनातरुचीवाढविने		
		CO 3	कथा,ललीतलेखववैचारीकलेखनयातूनविद्यार्थ्याचीमानसीकजडणघडणकरणेव		
		CO 4	बुद्धीकैशल्याचाविकासकरणे.		
		204	वृत्तपत्रलेखनाचीमाहितीदेणे. संपादिकयवार्तालेख, स्तंभलेखनयाचासरावकरूनघेणे. तसेचभाषेचीअभिवृद्धीकरणे.		
			DSC संवाद-पद्य (मराठीऐच्छिक/Optional Marathi 1015B)		
		CO 1	प्राचीनवअर्वाचनकाव्यविषयीविध्यार्थ्याच्यामनातरुचीवाढविने.		
		CO 2	मराठीसाहित्यपरंपरा, लेखक, कवीयांचापरिचयकरुणदेणे.		
		CO 3	विद्यार्थ्याच्यामनामध्येराष्ट्रीयएकात्मताउच्यमानवीमुल्यवकलेचीजोपासनाकरणे		
		CO 4	विद्यार्थ्याच्यामनामध्येकाव्यविषयीचेआकलन,		
B. Co	m Programme		अभीरुचीवाढविनेवत्यांच्याव्यक्तीमत्वाचाविकासघडविणे.		
			D ' T ' IDGG 10444		
	B.Com.I,SEM I	0.	Business Economics – I DSC-1044A		
	CO 1	Understand	concept of economics, business economics and difference		
		between mic	ero andmacro economic analysis		
	CO 2		nd function and measures of responsiveness of demand with its		
determinants.  CO3 Know production function and various cost and re			ction function and various cost and revenue concepts and their		
17.		applications			
	B.Com.I,SEM II		Business Economics – I DSC-1044B		
	CO 1	Understand the causes and consequences of different market structures			
	CO 2	Apply micro economic analysis to the firm under different market conditions			
	CO3		different pricing practices in business		
	B.Com-I	Financial Accounting			
	CO 1	1. To understand financial accounting concept and branches of accounting.			
	CO 2	2. To study t	he Amalgamation of Partnership Firm		

CO3	3. To know the procedure of Conversion of Partnership Firm in to Limited
	Company.
CO 4	4. To understand Accounting of Professionals.
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CO 5	5. To know single entry and double entry system.
CO 6	6. To study the consignment and branch accounting
CO 7	7. To know the accounting standards
	siness management
	To understand Concept of Management and Significance of Management.
CO 2	To know different Contributors towards Management Theories.
CO3	To know uses of Managerial Functions in the Organisation.
CO 4	To understand Role of Manager.
	To understand Management of Change and Recent Trends in Management.
CO 1	To understand Core Concepts of Marketing, Importance of Marketing.
CO 2	To know Consumer Behaviour.
CO3	To know the Relationship Marketing and Marketing Information System.
CO 4	To understand Segmentation, Targeting & Positioning.
CO 5	To understand the Rural Marketing.
	Ps of Marketing.
CO 1	To understand concept of insurance, types of insurance and significance of insurance.
CO 2	To know the principles of insurance.
CO3	To know the procedure of taking life and general insurance policies.
CO 4	To understand who is insurance agent and procedure of becoming insurance
	agent, ethical code of conduct, qualification of insurance agent and remuneration
	of insurance agent.
CO 5	To know the Procedure of taking various insurance policies. 6. To know why
	privatization of insurance and IRDA act
B.Com.I,SEM I	English AECC English for Business Communication (1040 A)
CO 1	After completion of this course, the students will be able to:
	formulate grammatically correct sentences
CO 2	speak about subject specific topics
	draft different types of business letters like inquiry, complaint, application
CO 4	describe and narrate effectively
CO 5	use vocabulary and correct grammar according to the purpose of communication
B.Com.I,SEM	English AECC English for Business Communication (1040 B)
	CO 4 CO 5 CO 6 CO 7 rinciples of bu CO 1 CO 2 CO 3 CO 4 CO 5 Principles of M CO 1 CO 2 CO 3 CO 4 CO 5 CO 6 Insuran CO 1 CO 2 CO 3 CO 4 CO 5 CO 6 Insuran CO 1 CO 2 CO 3 CO 4

CO1	After completion of this course, the students will be able to:
CO1	use articles and voices appropriately
CO2	understand the format and content of business letters
CO3	learn linguistic structures and vocabulary of English in advertisements, reports
CO3	and e-mails.
CO4	comprehend English prose and poetry.
B. Com II	Fundamentals of Entrepreneurship Paper - I
Sem III	and an annual of Environmental property of the control of the cont
CO1	To impart theoretical knowledge of Entrepreneurship.
CO2	To develop Entrepreneurship qualities and skills
CO3	To acquaint students with the state policy on entrepreneurship development.
B. Com II	Corporate Accounting Paper - I
Sem III	
CO1	To develop awareness of students and train them in Corporate Accounting
	in conformity with the provisions of Indian Companies Act 1956 and Indian
	Accounting Standards.
CO2	It aims at training the students in the practical aspects and computerized
	accounting.
B. Com II	Fundamentals of Entrepreneurship Paper - II
Sem IV	The state of the s
CO1	To acquaint students with the concept of rural and women entrepreneurship.
CO2	To impart conceptual knowledge of project management.
CO3	To encourage the students through successful stories of Entrepreneurs.
B. Com II	Business Economics (Macro) –I Course Code : CC-1049C
Sem III	
CO1	Understand basic concepts and theories in macro-economic
CO2	Describe the interrelationships among prices, income, money output and
GOA	employment as they affect consumption, saving and investment
CO3	Analyze causes and consequences of unemployment, inflation and economic growth
B. Com II	Business Economics (Macro)-II, Course Code : CC-1049D
Sem IV	Dusiness Economics (Macro)-11, Course Code: CC-1047D
CO1	Understand changes in economic variables and business cycle
CO2	Understand macro-economic policies and its importance.
CO3	Make optimal business decisions by integrating the concepts of macroeconomics like
.0	business cycle, public finance and international trade environment.
B. Com II	Capital Market Paper – I Subject Code – CC-1050C
Sem III	
CO1	Understand Indian Financial System
CO2	Know the difference between primary and secondary market
CO3	Understand stock exchange
B. Com II	Capital Market Paper – II Subject Code – CC-1050D
Sem IV	
CO1	Know the functions of venture capital and merchant banking
CO2	Understand different forms of analysis of capital market.
1	Understand D-mat account with its components.
CO3 M.Com-I	Management Concept and organisation behaviour

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	CO	After Completion of this course student students will understand basic concept of
		management as well as modern trends in management and importance of
		management
		Managerial Economics
	CO	After the completion the course students will be able to understand the role of
		managerial economics in today's world, role of business manager analysis of
		economics concept and its applicability in management decision
		Advanced Accountancy-I
	CO	After Completion of this course student will familiarize with Accounting
		standards, Accounting of Holding company and Final accounts of co-operatives
		Advanced Accountancy-II (Auditing)
	CO	After Completion of this course student will understand the process of auditing
		and crucial aspect of auditing
		Advanced Accountancy-III
	CO	After Completion of this course student will understand the accounting procedure
		of amalgamation, absorption and reconstruction, insurance company as well as
		familiarize with recent concepts of accounting
		Advanced Accountancy-IV
	CO	After Completion of this course student will understand calculation of taxable
		income under different heads of the income
	M.Com-II	Business Finance-I CP-1217C
	SEM III	
	CO1	To develop an understanding of the conceptual framework of Business Finance.
	CO2	To understand the concepts of Business finance with their environment and
	CO2	functions and to apply them in their life and in business organizations.
	M.Com-II	CC1225D Business Finance
		CC1223D Business I mance
	SEM IV	The selection of the least of the selection of the CEDI control for the self-ti-
	CO1	To enhance the knowledge about capital market, SEBI, mutual funds, portfolio,
	CO2	micro finance and credit rating etc.
	CO2	To gain the information about International finance and instruments of
		International Finance.
	M.Com-II	Management Accounting Paper - I
	SEM III	
	CO1	To understand the concept of Management Accounting.
	CO2	To know the use of tools and techniques of Management accounting in business.
	M.Com-II	Management Accounting Paper II
	SEM IV	
	CO1	understand the concept of Management control system
	CO2	To understand cost Accounting terminology and methods related to Management
		Accounting
	M.Com-II	CBP-1219C
100	SEM III	Advanced Accountancy Paper V (Cost Accounting)
	CO1	To understand the costing concepts.
	CO2	To acquire the knowledge of Cost Accounting procedure and techniques.
	M.Com-II	CBP-1227D
	SEM IV	Advanced Accountancy Paper VII (Financial Management)
	CO1	To acquire the knowledge of Financial Management.
	CO2	To know Selected Decision Making Techniques.
	M.Com-II	CBP-220C
	SEM III	Cost Accounting paper V (Financial Management)
	CO1	To understand the financial management concepts.
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	CO2	To asquint the students with financial management techniques.
	M.Com-II SEM IV	CBP-228D Advanced Accountancy Paper VII (Financial Management)
	CO1	The objective of this course is to help the students in understanding the conceptual
		frame work of financial Management with the aid of cost base.
	M.Com-II	CBP-222C
	SEM III	(RESEARCH METHODOLOGY & PROJECT WORK PAPER – VI)
	CO1	To understand the conceptual framework of scientific Methods in Research.
	CO2	To develop the skills and apply the process of Research in Project report writing.
	Department	Physics
11	PSO 1	To get the ability to draw the objective conclusions.
	PSO 2	To provide the knowledge about material properties
	PSO 3	To demonstrate a rigorous understanding of the core theories and principal.
	PSO4	To understand the nature at atomic level
	PSO 5	To use the theories of physics for developing the technology to ease the problem related to society.
	PSO 6	To analyze the application of Mathematics to the problems in Physics.
	B.Sc I,	Mechanics
	SEM-I	iviechanics
	CO 1	To undenstood the laws of abusing describing the meeting of hedies and such
	COT	To understand the laws of physics describing the motion of bodies under the
		influence of system of forces.
		To study different types of motions.
	CO2	To understand the laws of conservation of momentum and energy.
	CO2	To understand the laws of conservation of momentum and energy.
		10.
	CO 3	To study the fundamental elastic properties of material.
		To learn the concept of relativity to understand the nature microscopically.
	B.Sc I SEM-II	Electricity magnetism and electromagnetic theory
	CO 1	To understand the principles of physics this includes electromagnetism.
	CO2	To study the relation between electric field and magnetic field.
	CO 3	To know the concept of charge, current and voltage
	CO 4	To understand the nature of electromagnetic waves.
		M.Sc. Physics
	PSO 1	The student will acquire a job efficiently in diverse fields such as Science and
	1501	Engineering, Industry, Education, Banking, Public Services, Business.
1	PSO 2	The student will effectively communicate their knowledge of physics through a
		variety of oral, written, and computational modalities.
	PSO 3	Assess the errors involved in an experimental work and make recommendations
	_	based on the results in an effective manner also gain the knowledge of Physics
		through theory, practical's and research project.
	PSO4	Understand good laboratory practices and safety.
	PSO 5	The student will be able demonstrate a purposeful knowledge of scientific
	1303	literature and ethical issues related to physics.
		incrature and curical issues related to physics.

	PSO 6	Describe and critically evaluate the current state-of-the-art in solid state Physics area.
	Bsc. II Sem	Paper III: Physical and Organic Chemistry -DSC-2C
	CO1	After studying this course student will able to understand the physical properties of Solutions.
	CO2	After studying this course student will able to understand the phases of the subject
	CO3	After studying this course student will able to understand the electrolytic cells and basics of electrochemistry
	CO4	After studying this course student will able to understand the structural aspects and synthesis of bio molecules such as amino acids, carbohydrates etc
	Bsc. II Sem IV	Paper IV: Inorganic and Physical Chemistry -DSC-2D
	CO1	On successful completion of the course, the students will be able to know about transition metals., lanthanide actinide.
	CO2	On successful completion of the course, the students will be able to coordination chemistry theory
	CO3	On successful completion of the course, the students will be able to properties of solid, liquid and gases
	CO4	On successful completion of the course, the students will be able to chemical kinetics.
12	Department	Chemistry
	PSO 1	To encourage students to fix their feet and bright their carrier in the fields of science and technology for sustainable future and solve the emerging opportunities and challenges.
	PSO 2	To encourage our budding scientist in the field of chemical research for human well beings.
	PSO 3	To encourage and motivate the students to understand the chemistry in our daily life
	PSO 4	To inspire students to follow the principles of green chemistry which provides guideline for the exploration of nature without disturbing equilibrium of the nature?
(1)	PSO 5	We help the students to understand theoretical chemistry by its practical applications in which traditional and modern apparatus are used.
1),	PSO 6	To create awareness and understanding of various critical perspectives and environmental challenges.
	PSO 7	To understand the diversity of the subject in the different fields.
	PSO 8	To encourage the student towards creativity and generates scientific attitude.
	PSO 9	To encourage students to adopt comparative understanding with mathematical, biological and social sciences.
	B.Sc I	Chemistry-DSC-1002A: Inorganic and Organic Chemistry
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	CO 1	To understand the fundaments of atom.
	CO 2	To learn the details of 'S' and 'P' block elements in the periodic table
	CO 3	To acquire the knowledge regarding ionic bonding and its formation.
	CO 4	To study the principles of covalent bonding.
	CO 5	To learn the aspects of AOs, MOs, LCAO.
	CO 6	To understand the basic concepts of organic chemistry.
	CO 7	To learn structural aspects of the organic compounds and its impact on properties.
	CO 8	To learn the various chemical reactions of the aliphatic hydrocarbons like alkanes, alkenes, alkynes.
	B.Sc I	Chemistry-DSC-1002B: Physical and Organic Chemistry
	SEM-II	
	CO 1	To learn enthalpy of reaction and its types.
	CO 2	To understand the different laws of thermodynamics and its importance in the chemistry.
	CO 3	To understand the concept of free energy and its importance in the feasibility of chemical reactions.
	CO 4	To study the fundamental aspects of solubility and ionization
	CO 5	To learn the various chemical reactions of the aromatic hydrocarbons.
	CO 6	To gain the knowledge of preparation and chemical reactions of various important organic compounds like halides, aldehydes, ether, phenols, alcohols, etc.
	M.Sc.I SEM I	Paper CP-1131 A: Inorganic Chemistry – I
	CO 1	To learn Symmetry elements and symmetry operations of various inorganic compounds.
	CO 2	Understanding of spatial arrangement and nature of bonding in case of main group compounds.
	CO 3	Acquiring knowledge of bio inorganic chemistry and transition elements.
	CO 4	Study of Electronic, Electric and Optical behaviour of Inorganic materials.
	M.Sc.I SEM I	Paper CP-1132A: Organic Chemistry-I
	CO 1	Understanding the structure and reactivity of various reactive intermediates as well as stereochemistry of nucleophilic substitution reactions.
	CO 2	Learning of stereochemistry in nucleophilic substitution reactions in aliphatic compounds.
	CO 3	Identification of Electrophilic substitution reaction with respect to aromatic. Introduction of benzenoid and non benzenoid aromatic compounds
11	CO 4	Grasping of new reactions with respect to its stereochemistry and applications
1	CO 5	Studying the specificity of elimination reactions.
	CO 6	Assimilation of stereochemical aspects of chiral compounds containing heteroatoms and introduction to allenes and spiranes.
		Paper CP-1133 A: Physical Chemistry–I
	CO 1	
		Inculcation of Molecular spectroscopy phenomenon.
	CO 2	Studying the aspects of polymers and rubber.
	CO 3	Developing the concept of Colloids and surface phenomena.
1	CO 4	Learning of new concepts in thermodynamics and related properties.

		Paper CP-1134 A: Analytical Chemistry –I
	CO 1	Conceptual learning of quality control and quality assurance related to analytical chemistry.
	CO 2	Acquiring the new hyphenated techniques in chromatography.
	CO 3	Grasping of new analytical techniques related to electrochemistry such as
		voltametry, amperometry and polarography etc.
	CO 4	Introduction to research methodology and nanomaterials.
		Paper CP-1137B: Inorganic Chemistry – II
	CO 1	Learning Symmetry elements and symmetry operations of various
		inorganic compounds.
	CO 2	Adapting knowledge related to organometallic chemistry, transition
		elements, transition metal complexes
	CO 3	Detailed study related to lanthanides and actinides
		Getting familiar with spectroscopic term symbols, nuclear and
		radiochemistry
		Paper CP-1138B: Organic Chemistry-II
	CO 1	Assimilation of reaction mechanism with various name reactions, C-
		alkylation and acylation
	CO 2	Learning oxidation, hydroboration and enamines
	CO 3	Studying reduction reactions with help of various reducing agents, also
		studying functional group protection
	CO 4	Getting familiar with the concept of retrosynthetic analysis and organometallic chemistry w.r.t. organic synthesis
		Paper CP-1139B: Physical Chemistry–II
	CO 1	Acquiring knowledge related to atomic structure of many electron system
	CO 2	Getting familiar with basics of resonance energy transfer and fluorescence
		quenching
	CO 3	Applying electrochemistry basics to determination of activity and activity
		coefficients of an electrolytes
	CO 4	Understanding the kinetics approach for simultaneous reactions
		Paper CP-1140B: Analytical Chemistry –II
	CO 1	Grasping the fundamentals of molecular spectroscopy
ŀ	CO 2	Applying basics of spectroscopy in structure determination of organic
		compounds
	11.0	
	CO 3	Use of heat energy in structure determination
2.5	CO 4	Getting familiar with modern techniques such as AAS, ICPS
13	Department	Mathematics
	PSO 1	To study differentiability of real valued functions and to make aware students about their applicability.
	PSO 2	To study various classes of differential equations.
	B.Sc II	Differential Calculus
	SEM-I	
	CO 1	Learn to find arbitrary integer order derivative of various classes of functions.
1	CO 2	Learn how to trace curves.

	CO 3	Learn applicability of Mean value Theorems
	CO 4	Learn to evaluate limit of functions in indeterminate forms
	CO 5	Learn to check continuity and differentiability of functions
	B.Sc II SEM-II	Differential Equations
	CO 1	Learn to solve both ordinary and partial (linear, nonlinear) differential equations.
	CO 2	Learn to know mathematical formulation (involving differential equations) and solution of Mathematical Models
	M.Sc. I	CP-1170A Algebra
	CO 1	Check solvability of groups via Sylows theorems.
	CO 2	Check irreducibility of polynomial over any field.
	CO 3	Be familiar with theory of modules.
		CP-1171A : Advanced Calculus
	CO 1	Make use of Greens Theorem, Stokes Theorems for an arc rectification of curve.
	CO 2	Analyze convergence of sequences and series of functions.
	CO 3	Find the directional derivative of function of several variables.
		CP-1172A Complex Analysis
	CO 1	Know how to check given complex valued function is analytic or not.
	CO 2	Find power series expansion of an analytic function with radius of convergence.
	CO 3	Find zeros and singularities of complex valued functions
	CO 4	Evaluate integral of complex valued functions along given curve.
		CP-1173A Ordinary Differential Equations
	CO 1	Find the linearly independent and hence general solutions of given differential equations
	CO 2	Find series solution of Bessel's and Legendre's differential equations.
	CO 3	Apply Picard's successive approximation method to find approximate solution of initial value problem.
		CP-1174A : Classical Mechanics
	CO 1	Analyze motion of system of particles through Lagrangian and Hamiltonian principles.
	CO 2	Apply principle of variation of calculus for extrimization of problem.
	CO 3	Study motion of rigid body.
		CP-1175B : Linear Algebra
	CO1	Students will have a demonstrable knowledge of Vector space, Linear Transformations, Canonical Forms and Bilinear Transformations.
		CP-1176B : Measure and Integration
	CO 1	Find measure of given set and classification of measurable and nonmeasuarble
		sets and functions
	CO 2	Evaluate Lebesgue Integration of measurable and nonmeasurable
	7	functions.
1		CP-1177B : General Topology
	CO 1	Find different topologies on a given set and study their properties.
	CO 2	Check continuity of functions through different topological approaches.
		CP-1178B : Partial Differential Equations
	CO 1	Classify given second order partial differential equations.
	CO 2	Use different method to solve boundary value problem specially wave
		equations, Heat equations.
		CP-1179B : Numerical Analysis
	CO 1	Solve linear and nonlinear equations by various numerical methods.
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	CO 2	Find numerical integration along with error computation.
	CO 3	Solve initial value problem by different numerical methods
	Bsc. II Sem	MATHEMATICS-DSC -1005 C - Differential and Integral Calculus
	III	Principal and megrar careards
	CO1	After studying this course student will able to Make use of concept of
		derivative to study different curves geometrically
	CO2	After studying this course student will able to Make use of vector
		differentiation to study various physical phenomenon
	CO3	After studying this course student will able to solve improper integrals
	CO4	After studying this course student will able to find the area, volume of the
		given region
	CO5	After studying this course student will able to find Fourier series expansion
		of the given functions.
	Bsc. II Sem	MATHEMATICS-DSC -1003D - Discrete Mathematics and Integral
	IV	Transform
	CO1	After studying this course student will able to aware with different
		mathematical structures.
	CO2	After studying this course student will able to have sufficient knowledge of
		graph theory to apply in various fields
	CO3	After studying this course student will able to familiar with different kinds of
		integral transformations.
	CO4	After studying this course student will able to make use of the
		transformations to solve differential equations
14	Department	Computer Science
		Design, implementation, testing, and evaluate a computer system, component and
	PSO 1	algorithms to meet desired needs and to solve a problems using Computers.
	DGO 2	Demonstrate knowledge of Computer fundamentals, discrete mathematics and
	PSO 2	data structures, Network systems and Internet Technologies.
	DCO 2	Demonstrate knowledge of probability and statistics, including applications appropriate to computer science, information and technology.
	PSO 3	DSC-6A
	B.Sc I, SEM-I	Problem Solving Using Computers
	CO 1	Students should be able to understand the concepts of programming before
		actually starting to write new programs.
	V0.	
	CO 2	Students should be able to develop logic for Problem Solving
	CO 3	Students should be made familiar about the basic constructs of programming
	(C)	such as data, operations, conditions, 4loops, functions etc.
	CO 4	Chydanta should be able to understood urbat harmons in the background urban the
77.	CO 4	Students should be able to understand what happens in the background when the programs are executed
		programs are executed
	CO 5	Students should be able to apply the problem solving skills using syntactically
		simple language
		i. e. Python (version: 3.X or higher)
	B.Sc II	DSC-6B
	SEM-II	Database Management Systems

	CO 1	1) Apply knowledge of computer architecture and organization appropriate to the discipline
	CO2	Analyze given processing element, and identify and define the computing requirements.
	CO 3	Design, implement, and evaluate a microcontroller-based system, process, component, or program to meet desired needs
	CO 4	4) Use current techniques, skills, and tools necessary for Low-Level computing.
15	Department	B.Sc. STATISTICS
	PSO1	With a short term course in Statistical Quality Control they can serve as Qualitycontrol expert
	PSO2	With short term course in Actuarial Science they can work in InsuranceCompanies.
	PSO3	They can work as a Data analyst in various fields.
	B.Sc I,	DSC - 1004 A
	SEM-I	(Descriptive Statistics - I & Samp; Elementary Probability Theory)
	CO1	Compute descriptive statistics, moments, skewness, kurtosis, m.g.f. and c.g.fforcontinuous univariate distributions.
	CO2	Compute various statistical measures for continuous bivariate distributions.
	CO3	Understanding transformation of continuous univariate and bivariate random
		variable.
	CO4	Understanding various continuous probability distributions and their applications in
	CO5	Compute simple, weighted Index numbers and cost of living Index number.
	CO6	Understanding vital statistics and computation of vital events.
	CO7	Distinguish between process and product control, plotting control charts for variableand attributes.
	-2	
	CO8	Applications of Chebychev's inequality in finding bounds for probabilities.
	B.Sc I, SEM-II	DSC - 1004 B
		(Descriptive Statistics II & Discrete Probability istributions)
	CO1	At the end of this course students will be able to:
		Understanding various continuous probability distributions and their applications indifferent fields.
	CO2	Know the relation between various probability distributions.
	CO3	Learn basics and data analysis using R- software.
	CO4	Learn numerical methods.
	CO5	Understand the basic concepts of reliability and ageing properties.
	CO3	Understand the basic concepts of fenablity and ageing properties.

	CO6	Understanding the basic concepts of testing of hypothesis.
	CO7	Distinguish between large and small sample tests.
	CO8	Applications of small and large sample tests for real life examples.
16		Department Electronics
	Department	
	PSO1	The main aim of program (B.Sc. Electronics) is to develop the students withadequate theory knowledge of the electronic components, circuit design,instruments and practical work.
	PSO2	Understand and develop ideas, knowledge and practical skill based on readingand through the internet.
	PSO3	Transfer of appropriate knowledge and methods from one topic to anotherwithin the subject.
	PSO4	To encourage students to develop skills for accepting challenges of up-coming technological advancements.
	PSO5	Students learn to carry out practical work in the laboratory.
	PSO6	They get experience in applying skills and greater expertise.
	PSO7	To prepare students with necessary fundamental concepts and specific practical skills.
	PSO8	Develop the foundation of student to face rapidly developing electronic field.
	PSO9	To give training on circuit design, analysis, building and testing.
	PSO10	Apply appropriate techniques, modern instrument and equipment to studyelectronic circuit analysis for low frequency, mid frequency and highfrequency, with the help of signal generator and Digital Storage Oscilloscope.
	PSO11	Career opportunities and planning.
	B.Sc. I, Semester-I	Course Name: Network Analysis and Analog Electronics
	COI	To understand the electronics component, basic network theorems and acquire the knowledge of applying theorems to resistive circuits.
1)	CO2	Acquire the fundamental knowledge and expose to the field of semiconductortheory and devices and their Applications.
	CO3	To understand the basics of different DC power supplies.
	CO4	Know about the multistage amplifier using BJT in various configurations todetermine frequency response and concept of voltage gain.
	CO5	Know about different power amplifier circuits, their design and use inelectronics and communication circuits
	CO6	To understand the effects of negative feedback on amplifier circuits.

B.Sc. Part-I Semester-II	Course Name: Linear and Digital Integrated circuits
CO1	Understand the fundamentals and areas of applications for the integrated circuits.
CO2	
	Analyze important types of integrated circuits.
CO3	Analyze, design and implement combinational logic circuits.
CO4	Analyze, design and implement sequential logic circuits
CO5	Understand the fundamentals and areas of applications of the integrated circuits.
CO6	Analyze, design and implement combinational and sequential logic circuitslogic circuits.
R Sc. II Sem.	Electronics-Paper- III-DSC -1005 C-Electronics Communication and
III	Microprocessor 8085
CO1	On successful completion of the course, the students will be able to Apply
COI	the knowledge of semiconductors to illustrate the functioning of basic electronic devices
CO2	
CO2	On successful completion of the course, the students will be able
CO2	Differentiate different modulators of AM, DSBSC, SSB, VSB and FM
CO3	On successful completion of the course, the students will be able Explain the
~	basics of satellite communication
CO4	On successful completion of the course, the students will be able Use the
	Satellite system for the benefit of society and to know the different
	application of satellite communication
CO5	On successful completion of the course, the students will be able Solve bas binary math operations using the microprocessor
CO6	On successful completion of the course, the students will be able Apply
C00	knowledge of the microprocessor's internal registers and operations by use
CO7	of a PC based microprocessor simulator
CO7	On successful completion of the course, the students will be able Write
	assembly language programs, assemble into machine a cross assembler
<b>GO</b> 0	utility and download and run their program on the training boards.
CO8	On successful completion of the course, the students will be able Design
	electrical circuitry to the microprocessor in order to interface the processor
	to external devices
B.Sc. II Sem. ·	<u> </u>
IV	Microcontroller 8051
CO1	Understand different Analog Pulse Modulation technique like PAM,PWM
	and PPM.
CO2	Understand different digital modulation technologies like ASK,FSK and
	BPSK
CO3	Know modern multiple access schemes, the concept of frequency reuse,
	channel assignment strategies
CO4	Understand GSM, CDMA concepts, architecture, frame structure, system
CO <del>T</del>	capacity
CO5	Understand evolution of mobile communication generations 2G, 2.5G, 3G
CO3	_
COC	and 4G with their characteristics and limitations
CO6	Draw and describe architecture of 8051 microcontroller

	CO7	Interface various peripheral devices to the microcontrollers
	CO8	Write assembly language program for microcontrollers
	CO9	Understand Embedded -C language programming for 8051 Microcontroller
	CO10	Design microcontroller based system for various applications
1	Department	Microbiology
7		Upon completion of B.Sc. Microbiology programme, student will be able to –
	PSO 1	Perform the basic techniques related to screening, isolation and cultivation of
	PSO 2	microorganism from various sources.  Understand microorganisms and their relationship with the environment.
	PSO 3	Conduct the basic research with these microorganism and perform the diagnostic
		procedures required in food, milk and pharmaceutical industries.
	PSO4	Follow the aseptic techniques and conduct the process of sterilization as well as
	700 7	perform the techniques to control the microorganism.
	PSO 5	Produce and analyze the microbial product at laboratory level.
	B.Sc I,	Course Name :DSC 1010 A
	SEM-I	Introduction to Microbiology and Microbial Diversity
	CO 1	After completing the course, student will be able to-
		Apply various physical and chemical methods for sterilization of different
	G02	materials.
	CO2	Identify microorganisms using staining techniques.
	CO 3	classify the organism on the basis of their nutritional requirements
	B.Sc I	Course Name :DSC 1010B
	SEM-II	Bacteriology and Applied Microbiology
	CO 1	After completing the course, student will be able to-
		Identify different kinds of microorganisms on the basis of their morphological,
	CO2	cultural & biochemical characters.
	CO2	Explain techniques of preservation of microbial culture.
	CO 3	Analyzethe milk microbiologically.
	B.Sc II	DSC- 1010C : Microbial Physiology and Metabolism
	SEM-III	
	CO1	Describe mechanism of energy generation in bacteria.
	CO2	Predict effect of various environmental factors on the growth of microorganism.
	CO3	Explain various methods of food preservation.
	B.Sc II	DSC- 1010D : Microbial Genetics and Medical Microbiology
	SEM-IV	
	CO1	Distinguish between various forms of DNA.
	CO2	Explain the gene regulation.
	CO3	Define various terminologies used in medical microbiology.
18	Department	BIOTECHNOLOGY (OPTIONAL)
1	PSO 1	Graduates will be able to apply knowledge of biotechnology to conserve flora & conserve flo
	PSO 2	Graduates will be able to outline various projects for human welfare & amp;
		social awareness
	PSO 3	Graduates will be able to perform various techniques in Life sciences.
	PSO 4	Graduates will be able to differentiate plant & species level.
	B.Sc I,	DSC-1009A
	SEM-I	Basics of Biotechnology
	1	<u>.</u>

	T 00 1	
	CO 1	At the end of this course students will be able to:
		Depict scope of biotechnology with respect to various
	CO 2	branches.
	CO 2	Perceive knowledge about biomolecules
	CO 3	Choose precise tool & Durify specific biomolecules.
	CO 4	Predict & Distrate the image formation by microscope
	B.Sc I	DSC-1009B
	SEM-II	Basics of Cell biology & Microbiology
	CO 1	At the end of this course students will be able to: Classify types of microorganism
	CO2	Differentiate cell organelles in Pro & Eukaryotes, can also outline their functions.
	CO 3	Design media formulation with respect to individual Organism
	CO 4	Outline various staining procedures
	B.Sc II SEM-III	DSC 1345C- Genetics
	CO1	To understand basic principles of Mendelian inheritance.
	CO2	To study cell division & chromosome segregation To explore the Linkage
		inheritance.
	CO3	To acquire the chromosome structure, chromatin organization and variation.
	CO4	To learn the concepts of Linkage concept of sex determination and sex
	CO5	Linked inheritance. To gain knowledge about the organellar inheritance.
	B.Sc II SEM-III	DSC 1346C- Biophysics and Enzymology
	CO1	Biophysics and Enzymology deals with study of detailed of spectroscopy, crystallography, NMR with respect to functions and factors affecting Enzymes catalysis.
	CO2	The course will give opportunity to understand following concepts a) Proximity orientation, Strain and Distortion, Covalent catalysis, Acid- base catalysis b) Steady state kinetics c) Allosteric Enzyme d) models explaining mechanism of action-sequential model, Symmetry Model
	B.Sc II SEM-III	DSC 1347C - Metabolic Pathways
	CO1	Have knowledge of cellular metabolism, including central catabolic and anabolic pathways.
	CO2	Understand the principals and importance of metabolic control
	CO3	Be able to describe the main mechanisms through which metabolic processes are
(1)	7	controlled, and appreciate that control occurs at multiple levels.
	CO4	Understand how different control mechanisms may be integrated to coordinate cell
		metabolism and function.
	CO5	Understand how metabolism is coordinated in mammals, and have knowledge of how disturbances in metabolism contribute to disease.
		DSC 1348C – Ecology
	CO1	Appreciate the ethical, cross-cultural, and historical context of environmental issues and the links between human and natural systems.
	CO2	Understand the Biogeochemical cycle and its functioning interactions across local to global scales.

CO3	Apply systems concepts and methodologies to analyze and understand interact between social and environmental processes.
CO4	Reflect critically about their roles and identities as citizens, consumers and
	environmental actors—in a complex, interconnected world.
B.Sc II	DSC 1349C - Molecular Biology- I
SEM-III	Disc 13 170 Molecular Biology 1
CO1	Molecular Biology-I gives knowledge about structure and function of the macromolecules, essential to life. Molecular Biology gives detailed knowledge biological and/or medicinal processes through the investigation of the underlyin molecular mechanisms.
CO2	Students will gain an understanding of chemical and molecular processes that o in—and between cells. Students understanding will become such that they will a
	to describe and explain processes such replication and repair of DNA.
CO3	Students will gain insight into the most significant molecular and cell-based methods— used today to expand our understanding of biology.
B.Sc II SEM-III	DSC 1350C - Plant Tissue Culture
CO1	To acquaint students with Techniques of Plant. To impart the skills of PTC.
CO2	The students will be technically and critically trained with good practical expost to perform— both the plant and animal culture, which is the at most required in the field of science; skilled candidates are absorbed in well established and commertissue culture units.
CO3	This area can be taken up as micro propagation business with smaller investment by— entrepreneurs.
B.Sc II SEM-IV	DSC 1345D-Immunology
CO1	The immune system governs defense against pathogens and is of importance fo development of autoimmune diseases, allergy and cancer.
CO2	The course discusses basic immunology including cellular and molecular procest that—represents the human immune system.
CO3	This subject offers detailed study of following concepts;— a) Immunological processes at a cellular and molecular level b) Defense mechanism (Physicochemical barriers) c) Innate & Acquired Immunity d) Antigen & Antibody (Reactions) e) Hypersensitivity
B.Sc II SEM-IV	DSE 1346D- Advances in Cell Biology
COI	Describe cytological, biochemical, physiological and genetic aspects of the cell including cellular processes common to all cells, to all eukaryotic cells as well a processes in certain specialized cells.
CO2	Explain cellular processes and mechanisms that lead to physiological functions well as examples of pathological state.
CO3	Students will understand the cellular components underlying mitotic cell division
B.Sc II SEM-IV	DSC 1347D -Plant Biochemistry
CO1	To understand plant structures in the context of physiological function plants.
CO2	To understand plant water relations, i.e. how plants acquire, utilize, and regulat the flow of— water between plant and environment.
CO3	To understand the mineral nutrients plants require, and how they are obtained, metabolized,— and transported.
CO4	To understand the physiological details of photosynthesis and respiration, and they are—organized and regulated in plants.

	In a -	
	CO5	To understand plant growth and development, and its regulation by hormones and
		the— environment.
	B.Sc II	DCC 1249D Environmental Distanta de als su
	SEM-IV	DSC 1348D Environmental Biotechnology
	CO1	Students who successfully complete this unit will be able to: Recognise the various
	COI	• •
		global and regional environmental concerns due to natural causes and/or—human
		activities, and the impact of these on various forms of life including native
		biodiversity.
	CO2	Investigate some examples of different types of environmental pollution and their
		impacts— Describe the applications of various fields including chemistry,
		biochemistry, molecular biology and/or microbiology, in understanding and
		addressing the above issues, as well as
	CO3	exploring environmental resources for new technologies.
	CO4	Demonstrate an awareness of emerging concerns such as climate change, waste
		management or— reductions in fossil fuels, and new technologies for addressing
		these.
	B.Sc II	
	SEM-IV	DSC 1349D - Molecular Biology-II
		Molecular Dielegy II gives Imperied as shout structure and function of the
	CO1	Molecular Biology-II gives knowledge about structure and function of the
		macromolecules, DNA blue print of life. Molecular Biology gives detailed
		knowledge of processes such as transcription and translation.
	CO2	Students will gain an understanding of chemical and molecular processes that occur
		in— and between cells. Students understanding will become such that they will able
		to describe and explain processes such operon model, gene regulation etc.
	CO3	
		Students will gain insight into the most significant molecular and cell-based
		methods— used today to expand our understanding of biology.
	B.Sc II	DSC 1350D Animal Tissue Culture
	SEM-IV	C
	CO1	Students will be able to describe animal cell culture from a historical point of view.
	CO2	Appreciate the importance of and the progress in animal cell culture technology.
	002	Be familiar with the theoretical and practical aspects of culturing and sub-culturing
		established—cell lines.
	CO2	
	CO3	Principles of regulating biological products as it apply to the pharmaceutical
	COA	industry.¬
	CO4	Describe different methods and equipment employed in the scale-up of animal cell
	00	culture.¬
19	Department	DEPARTMENT OF ZOOLOGY
	- 4	
	PSO 1	Understand the nature and basic concepts of Animal diversity, taxonomy,
1,1	4	Comparative anatomy Developmental biology, physiology, Biochemistry,
		Genetics and Evolutionary Biology
-		2.01063
	PSO 2	Perform procedures as per laboratory standards in the areas of Animal diversity,
		taxonomy, Comparative anatomy, Developmental biology, physiology,
		Biochemistry, Genetics and Evolutionary Biology, Entomology, Sericulture,
		Biochemistry, Animal biotechnology, Immunology and research methodology
		Diochemistry, Annual ofoteemology, minimunology and research methodology
	PSO 3	Understand the applications of applied zoology in Apiculture, Aquaculture,
		Agriculture and Medical zoology
	1	1

	PSO 4	Acquired knowledge about research methodologies and skills of problem solving methods
	PSO 5	Students will Contributes the knowledge for Nation building and society welfare.
		ZOOLOGY-DSC -1008A
	CO 1	Students are able to understand the evolution, history of phylum from protozoa to vertebrata.
	CO2	Students are able to understand about the Non Chordate animals.
	CO 3	Students are able to understand about the Chordate animals
	CO 4	To study the distinguishing characters of non chordates.
		ZOOLOGY-DSC -1008B
	CO 1	Understand the comparative structures of integument, skeletal system,
		digestive system, respiratory system, heart, aotic arches, kidney,
		respiratory organs, brain of different animals and sense organs.
	CO2	Understand the Gametogenesis, Fertilization, pattern of cleavege, fate
		map, germ layers and early development, movements, neurogenesis and
		organogenesis in animals.
	CO 3	Understand the implantation, placenta and metamorphosis in frog
	CO 4	Understand Gene activation, determination, induction, Differentiation, intercellular communication, cell movements and cell death
	CO 5	Understand the Chick embryology
20		Department of Botany
		80'
	PSO 1	Critically evaluation of ideas and arguments by collection relevant
		information about the plants, so as recognize the position of plant in the broad classification and phylogenetic level.
	PSO 2	Identify problems and independently propose solutions using creative
	Maj	approaches, acquired through interdisciplinary experiences, and a depth of knowledge/expertise in the field of Plant Identification
	PSO 3	Accurately interpretation of collected information and use taxonomical
		information to evaluate and formulate a position of plant in taxonomy
	PSO 4	Students will be able to apply the scientific method to questions in botany
		by formulating testable hypotheses, collecting data that address these
		hypotheses, and analyzing those data to assess the degree to which their
		scientific work supports their hypotheses.

	PSO 5	Students will be able to access the primary literature, identify relevant
		works for a particular topic, and evaluate the scientific content of these
		works.
	PSO 6	Students will be able to apply fundamental mathematical tools (statistics,
		calculus) and physical principles (physics, chemistry) to the analysis of
		relevant biological solutions.
	PSO 7	Students will be able to compare and contrast the characteristics of plants,
		algae, and fungi that differentiate them from each other and from other forms of life.
	DGO 0	
	PSO 8	Students will be able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment.
		They will be able to relate the physical features of the environment to the
		structure of populations, communities, and ecosystems.
	PSO 9	Students will be able to demonstrate proficiency in the experimental
		techniques and methods of analysis appropriate for their area of
		specialization within biology.
	B.ScI,	Biodiversity in Cryptogams and Gymnosperms
	Sem-I:	
	CO 1	Understand the diversity among Microbes, Algae and Fungi.
	CO2	Know the systematic, morphology and structure, of Microbes, Algae and
		Fungi. Understand the life cycle pattern of Microbes, Algae and Fungi.
	CO 3	Understand the useful and harmful activities of Microbes, Algae and
		Fungi.
	CO 4	Know the Economic Importance of Algae, Fungi.
	CO 5	Understand the Biodiversity of Microbes, Algae and Fungi
	B.Sc I,	Paper II : Plant Ecology and Taxonomy
	SEM-I	Tuper II. Thank Deology and Tuxonomy
	CO 1	Understand the ecological factors, ecosystem and Phyto-geography
	CO2	Understand along communities and evaluated adoptations in along
	CO 3	Understand plant communities and ecological adaptations in plants.
	CO 4	Understand the Phyto-geographic zones of India
21		Understand plantcommunities and ecological adaptations in plants
21	<b>Department</b> PSO 1	BIOTECHNOLOGY (ENTIRE) Graduates will gain and apply knowledge of Life sciences, to solve problems
	PSO 2	related tofield of Biotechnology.  Graduates will be able to identify, analyze and understand valid conclusions with
	130 2	basicknowledge of traditional subjects in the view of Biotechnology

PSO 3	Graduates will be able to decide and apply appropriate tools and techniques
PSO4	inbiotechnology  Graduates will be able to design and develop solution for environment & camp;
1304	society issue.
	society issue.
PSO 5	Graduates will be able to justify social, health, safety and legal issues and
	understand hisresponsibilities in biotechnological practices.
PSO 6	Graduates will be able to understand the need and impact of Biotechnological
	solutionson environment and societal context keeping in view need for
	sustainable solution.
PSO 7	Graduates will be able design, perform experiments, analyze and interpret data
	afterinvestigating different scientific problem.
PSO 8	Graduates will be able to demonstrate knowledge of project and finance
	managementwhen dealing with Biotechnology
PSO9	Those with biotechnology degrees command a great deal of scientific research
	funding, as the ability to create new and more productive food sources is always
D.C. I	in demand.
B.Sc I, SEM-I	DSC 1331 AChemistry-I
CO 1	At the end of this course students will be able to:
COT	Construct the thermodynamic models for reactionrate
	Construct the thermodynamic models for reaction ate
CO 2	Analyze the relation between different measures of concentration
202	
CO 3	calculate Gibb's free energy for biological process.
	DSC 1332 ABiochemistry-I
CO 1	At the end of this course students will be able to:
	Understand basic concepts of origin of lifein the diet.
CO 2	Outline the importance of carbohydrates and lipids
CO 3	understand the basic concepts of biological buffersystem.
	Predict and illustrate sap value, iodine value, andacid value.
CO 4	
	<u> </u>
	DSC 1333 APlant Science
CO 1.	At the end of this course students will be able to:
	Understand general classification of plant kingdom
CO 2	explain the terms used in plant morphology andtaxonomy
CO 3	outline the general characters of Algae, Bryophytesetc.
7	
CO 4	explain the rules of taxonomy.
	DSC 1334 AMathematics
CO 1	At the end of this course students will be able to:
	differentiate various types of matrices.
CO 2	Outline the importance of Bernoulli differential equation
GO 3	
CO 3	Explain the system of linear equation
CO A	Discuss the mathematical theorem
CO 4	Discuss the mathematical theorem

		DSC 1335 AComputer
	CO 1	At the end of this course students will be able to Choose the operating system for
		computers
	CO2	To learn different aspects of office operations.
	CO3	Outline the database management system.
		DSC 1336 ABiotechniques and Instrumentation
		At the end of this course students will be able to:. Illustrate different methods of
	CO 1	protein purification
	CO 2.	Demonstrate and use different lab instruments
	CO 3	understand basic concepts of spectroscopy
	CO 4.	Perceive the knowledge about different types ofmicroscopy.
		DSC 1338 APhysics-I
	CO 1	At the end of this course students will be able to:
		Reflect the importance of various temperature scale
		· O`
	CO 2	understand basic concepts of elasticity
	CO 3	Demonstrate the nature of electromagnetic waves.
	CO 4	outline the concepts of viscosity, surface tension.
	B.Sc I,	DSC 1331 BChemistry-II
	SEM-I	
	CO 1.	At the end of this course students will be able to:
		Describe the mechanism of organic evolution
	CO 2	elaborate the concept of aromaticity
	CO 3	compare the gravimetric and titrimetric analysis
	CO4	explain chemical nature of natural products.
	G0.1	DSC 1332BBiochemistry-II
	CO 1	At the end of this course students will be able to:
	CO 2	Classify different types of proteins.
	CO 2	Elaborate the role of chromatography in purification of bimolecule.
	CO 3 CO4	Describe the functions of different coenzymes.  Explain IUB classification of enzymes.
	CO4	DSC 1333 BAnimal Science
	CO 1	At the end of this course students will be able to:
	COT	Understanding the diversity of life.
	~0	Onderstanding the diversity of the.
	CO 2	Reflect the importance of host parasite relationship
	CO 3	Explain the structure and functions of different types
11	30.1	of tissue.
	CO4	Encourage the students to opt for carrier in applied
7		zoology.
	CO 1	DSC 1334 B Statistics
	CO 1	At the end of this course students will be able to:
	CO2	Differentiate between correlation & Differentiate between correlat
	CO 2	Explain the importance of random sampling
	CO 3	Perceive the knowledge of probability & potential amp; testing hypothesis.
	CO4	Outline the importance of graphical representation ofdata.
		DSC 1335 BComputer

Ī	CO 1	At the end of this course students will be able to:
	COT	Explain the importance of programming operator.
	CO 2	Illustrate the relation between symbolic and logical
	CO 2	mustrate the relation between symbolic and logical
	CO 3	Explain importance of formatting
	CO4	Outline the types of conservation in expression.
		DSC 1336 BBasics in cell biology
	CO 1	At the end of this course students will be able to:
		percieve knowledge about the cell theory
	CO 2	Explain concept of different types of membrane
		transport.
	CO4	Outline the types of conservation in expression.
		DSC 1337B CO 1 Microbiology-II
	CO 1	Acquire the Knowledge about the isolation of microorganism in pure culture from mixed population.
	CO 2	To carry out microbiological analysis of water
	CO 3	To conclude Different modes of transmission of diseases.
		DSC 1338 BPhysics-II
	CO 1	To correlates optics with microscopy.
	CO 2	Apperciate the importance of laser.
	CO 3	Discuss different types of semi-conductor devices.
	CO 4	Draw microbial growth curve.
22		
	Department	B.B.A.
	PSO 1	Students will have knowledge of management concepts, HRM practices, Material Management, E – Commerce, and production management.
	PSO 2	Students will learn concept of management of tourism, entertainment, education, telecommunication and day care services.
	PSO 3	BBA graduates able to identify a business opportunities and sources
	PSO4	BBA graduates will learn consumer behavior, preferences and consumersatisfaction
	PSO 5	BBA graduates will learn concept of management accounting Break
	DCO 6	Evenconcept& budgets like cash budget, flexible budget capital budget etc  Students will able to differentiate between methods of measurement of
	PSO 6	NationalIncome, direct and indirect taxes.
	PSO 7	·
		BBA graduates will learn entrepreneurial competency and entrepreneurial skill.
1	PSO 8	Students will have capability of marketing a product or a service including digital marketing.
	PSO 9	Students can demonstrate the fundamentals of creating and managinginnovation,
		new business development, and high-growth potential entities
	PSO 10	Students will have ability to do analysis of statistical data.
	B.B.A I,	Course Name- CC -1362A
	SEM-I	Principles of Business Management-I
	CO 1	Understand the fundamentals of management.
	CO2	Be able to explain planning process.
1		
	CO 3	Understand Contribution Towards Management Thought

CO 4	Know staffing and organizing.
	Course Name- CC-1364A Business Economics (Micro) Paper- I
B.B.A I, SEM-I	
CO 1	Understand concept of economics, business economics and difference betweenmicro and macro economic analysis
CO2	Know demand function and measures of responsiveness of demand with itsdeterminants.
CO 3	Know production function and various cost and revenue concepts and
	theirapplications
B.B.A I, SEM-I	Course Name- CC -1365A Marketing Management-I
CO 1	Explain basic concepts Marketing Mix
CO2	Understand the concept Production and Pricing decision
CO 3	To get knowledge about Promotion and place
CO 4	Able to Understand the concepts of CRM and E-CRM
B.B.A I,	
SEM-I	Course Name-CC -1363A Financial Accounting-I
CO 1	Understand the concepts in accountancy
CO2	Prepare trial balance ,journal, ledger and subsidiary books of accounts
CO 3	Be able to differentiate between GAAP & Samp; IFRS
CO 4	Prepare statements of accounts of sole proprietor
B.B.A I, SEM-I	Course Name-GEC-1367A Human Resource Management-I
CO1	Interpret the concepts of Human resource management and HR manager
CO2	To get knowledge about Human resource planning
CO3	Describe the concepts of Recruitment and selection
CO4	Illustrate International HRM and challenges of International HRM
B.B.A I, SEM-I	AECC: BUSINESS COMMUNICATION I (1361A)
CO 1	To enable students to understand different types of communication barriers and to overcome them
CO 2	To acquaint students with different types of communications
CO 3	To enable students to draft notice, memo and circulars effectively
11.0	To enable students with all soft skills and writing skills essential job
CO 4	interview
B.B.A I, SEM-II	Course Name-CC-1364A Principles of Business Management-II
CO 1	Have an understanding of the skills, abilities, and tools needed to become a leader understand leadership styles
CO 2	Describe Motivational theories.
CO 3	Understand need for change and resistance to change.  Course Name- CC -1363B Financial Accounting-II
CO 1	Describe Management Information System (MIS)
CO 2	Demonstrate calculations of depreciation
CO 2	Demonstrate calculations of depreciation

CO 3	
	Prepare Final accounts of Partnership firm
CO 4	Understand Accounting Packages.
B.B.A I, SEM-II	Course Name- GEC-1367B Human Resource Management-II
CO 1	Understand the concepts Performance appraisal
CO 2	To get knowledge about Promotion, Transfer, and Demotion
CO 3	Describe the concept of composition management
CO 4	Illustrate Employee relations
B.B.A I, SEM-II	Course Name- CC-1364B Business Economics (Micro) Paper- II
CO 1	Understand the causes and consequences of different market structures
CO 2	Apply micro economic analysis to the firm under different market conditions
CO 3	Understand different pricing practices in business
B.B.A I, SEM-II	Course Name-CC -1365B Marketing Management-II
CO 1	Explain basic concepts Marketing Mix
CO 2	Understand the concept Production and Pricing decision
CO 3	To get knowledge about Promotion and place
CO 4	Able to Understand the concepts of CRM and E-CRM
B.B.A I, SEM-II	Course Name - Computer Application In Business-II GEC –1366B
CO 1	Understand the various concepts, processes and importance of computer networkand terminology related to itconcept with examples
CO 2	Understand how to write various reports using Excel
CO 3	Understand Computer assisted audit tool for fraud detection and audit purpose its
CO 4	Understand BPR process and various terminologies related to it
B.B.A I, SEM-II	Course Name - Business Communication II AECC-1361B
CO 1	To enable students to engage in oral communication
CO 2	To help students to acquire skills to perform well in seminars, conferences and groupdiscussions
CO 3	To help students to acquire report writing skills
CO 4	To help students to acquire decision and negotiation skills
B.B.A. II Sem III	
CO1	To develop an understanding of the conceptual framework of Management Accounting
CO2	To understand the process of budgeting and use of marginal costing and standard costing
B.B.A. II Sem IV	Management Accounting 1369D
CO1	To understand analysis and interpretation of financial statements and
CO1	To View the beside of human recovery
	10 Know the basics of numan resource accounting
CO2 CO3	To Know the basics of human resource accounting  To understand the concept of funds flow and cash flow
CO2	
CO2 CO3 B.B.A. II Sem	To understand the concept of funds flow and cash flow
CO2 CO3 B.B.A. II Sem III	To understand the concept of funds flow and cash flow  GEC 1372C ENTREPRENEURSHIP DEVELOPMENT—I
CO2 CO3 B.B.A. II Sem III CO1 CO2	To understand the concept of funds flow and cash flow  GEC 1372C ENTREPRENEURSHIP DEVELOPMENT— I  To understand the concept of for Entrepreneurship  To understand the process of EDP
CO2 CO3 B.B.A. II Sem III CO1	To understand the concept of funds flow and cash flow  GEC 1372C ENTREPRENEURSHIP DEVELOPMENT— I  To understand the concept of for Entrepreneurship

To know the successful stories of women entrepreneur and top successful
entrepreneurs.
To prepare their own proposals of their businesses with the help of project report.
GEC- 1370C Production management
To get the knowledge about functions and process of Production Management.
Students come to know about Recent trends in production management
This course will help to understand production concepts along with quality management.
GEC- 1370D Material Management
This course will help to understand material management along with Inventory management and supply chain management.
CC–1368C Service sector management
To understand service sector
To know the marketing practices of service sectors
To understand management of service sector
CC-1368D Service Sector Management
This course will help to understand services provided by marketer like insurance transport, hospital, tourism, education, telecommunication services.
Business Economics (Macro), Paper – I
To know macroeconomics and its interrelationship with business
Understand national Income and their different methods of measurements.
To know concept of money and their forces
describe the interrelationships among prices, income, money output and employment as they affect consumption, saving and investment
Analyze causes and consequences of unemployment, inflation and economic growth
STATISTICAL TECHNIQUES FOR BUSINESS- I
E-commerce
The fundamental principles of e-Business and e- Commerce and its role to improve Management
The underlying used technologies with emphasis on Internet Technologies
The application of tools and services to the development of small scale e-Commerce applications.
AECC: BUSINESS COMMUNICATION I (1361B)
To enable students to engage in oral communication
To help students to acquire skills to perform well in seminars, conferences
and group discussions
To help students to acquire report writing skills
To help students to dequite report writing skins
To help students to acquire decision and negotiation skills

PSO 2	Develop practical skills to provide solutions to industry, society and business.
PSO 3	Identify, formulate, review and analyze complex problems using various
	computer techniques
B.C.A I,	Course Name: Fundamental of Computers
SEM-I	
CO 1	Master in the binary and hexadecimal number systems including computer
	arithmetic
CO2	Be familiar with the history and development of modern computers
CO 3	Understand the fundamentals of different instruction set architectures and their
	relationship to the CPU design
CO 4	Understand the principles and the implementation of computer arithmetic
B.C.A I, SEM-I	Course Name: Programming in C part I
CO1	Understand the basic terminology used in computer programming
CO 2	Write, compile and debug programs in C language
CO 3	Design programs involving decision structures, loops and functions
B.C.A I, SEM-I	Course Name: Principle of Management
CO 1	Students can understand Management concepts in organizations.
CO2	Students came to know planning and organizing process in management.
CO 3	Students get aware about motivation, stress management and change
	management.
B.C.A I, SEM-I	Course Name: Financial Accounting
CO 1	To enable the students to learn principles and concepts of Accounting.
CO2	Students can use accounting in real-life work.
CO 3	Ability to prepare accounting statements and reports in accordance with accounting
B.C.A I, SEM-I	AECC: English for Business Communication-1395 A
CO 1	To understand the concept, process and importance of communication
CO2	To gain knowledge of media of communication
CO 3	
	To develop skills of effective communication - both written and oral.
CO 4	To make students familiar with information technology.
B.C.A I, SEM-II	Course Name: Software Packages
CO 1	Recognize when to use each of the Microsoft Office programs to create professional business documents
CO2	Use Microsoft Office programs to create personal and/or business documents
110	following current professional and/or industry standards
CO 3	Pursue future courses specializing in one or more of the programs
B.C.A I,	Course Name: Programming in C part II
SEM-II	
CO 1	Understand the user defined function and categories of functions
CO2	Write programs using pointers
CO 3	Be familiar with the concept of Dynamic memory allocation
CO 4	Design programs involving structure and union
CO 4	Student can write file handling programs.
	· · · · ·
CO 4  B.C.A I,	Student can write file handling programs.

	CO 3	They came to know e-banking concepts and fund transfer options.
	B.C.A I,	Course Name: Financial Accounting with Tally
	SEM-II	
	CO 1	Students can understand accounting packages.
	CO2	Knowledge of practical applications of accounting concepts with Tally.
	CO 3	Prepare final account of various companies with necessary schedules
	B.C.A I,	Course Name: Principle of Marketing
	SEM-II	Course runes i incipie of runketing
	CO 1	Students are enable to get practical knowledge and tactics in the marketing
	CO2	Students can understand marketing mix and segmentation of products.
	CO 3	They are clear about buyers behavior and product advertisements
24	Department	B.Sc. Entire Computer Science
	PSO 1	Graduate will have an ability to use appropriate techniques, skills & Damp; tools necessary for computing practice.
	PSO 2	Graduate will have an ability to apply knowledge of computing, mathematics & computing appropriate to the discipline.
	PSO 3	Graduate will have ability of problem analysis: Identify, formulate using principles of mathematics, electronics.
	PSO4	Graduate will have knowledge of software development fundamentals,including programming, data structures, algorithms and complexity
	PSO 5	The student can apply the knowledge they have gained to solve real
	B.ScI SEM-I	Course Name:Mathematics Subject Code : GEC-1300A
	CO1	Construct simple mathematical proofs and possess the ability to verifythem.  Comprehend formal logical arguments.
	CO2	Apply basic counting techniques of combinatorial problems. Specify andmanipulate basic mathematical objects such as sets, functions andrelations
		and will also be able to verify simple mathematical properties that these objects possess.
	CO3	Classify numbers into number sets. Determine function is one-one andOnto.
	CO4	Prove results involving divisibility & Department of the remainder when any large number is divided by any other integer
	B.ScI	Electronics
	SEM-I	Code: GEC-1301A
	CO1	Study the current voltage characteristics of semiconductor devices,
		understand the behavior of basic electronic components, Explain the
	10	concept of circuit laws and network theorems and apply them to
		laboratory measurements.
	CO2	Understand to semiconductor devices. Characteristics and biasing ofdiodes and
	CO2	transistors. Design and analysis of circuits using diodes,
1.		bipolar transistors, and field effect transistors. Application of transistorsas
		amplifiers and switches.
	CO3	Understand basic digital electronic systems. To learn different theorems and laws
		for simplification of basic Digital electronics circuits. understand symbols, Truth
		tables, Boolean equations, & Digram every working principle
		principle
	CO 4	Teach basic principles of programming. Develop skills for writing programs using 'C'.

B.ScI SEM-I	Subject : Computer Science Code : CC-CS-1303B
CO1	Understand Basic elements of a communication system, Data Transmission modes, Data Transmission media, Types of networking Network Topologies, Definition and declaration, Operations on pointer, Pointer initialization, Pointer And Array, Pointer of pointer, Dynamic memory allocation.
CO2	Understand Information Technology IT Assets and its managements, ITAct, Definition, declaration, prototype of function, Local and globalvariable, User defined functions, Storage classes, Recursion, Pointer andfunction, Call by value and Call by reference.
CO3	Understand Database Management System, Data Models, Concept of RDBMS, RDBMS Terminologies, DBA & DBA, Responsibilities of DBA, Relational Model, Definition and declaration, Array of structures, Passing structure to function, Pointer to structure, Nested structure, selfreferential structure, Sizeof and typedef, Definition of Union and declaration, Difference between structure and union.
CO4	Understand Oracle Data types, Classification of SQL commands, DataConstraints, Concept of File, Text and binary files, Opening and closingfiles, File opening mode.
B.ScI SEM-I	AECC: English for Business Communication- BCS I A
CO1	To understand the concept, process and importance of communication.
CO2	To gain knowledge of media of communication.
CO3	To develop skills of effective communication - both written and oral.
CO4	To make students familiar with information technology.
B.ScI SEM-II	Subject : Mathematics Code : GEC-1300B
CO1	Apply principles and concepts of graph theory in practical situations. Understand applications of graph theory in areas of Computer Science, Biology, Chemistry, Physics, Sociology etc.
CO2	To model real world problems using graph theory. To model real worldproblems using graph theory
CO3	Inspect the value of the limit of a function at a point using the definition of the limit. Find the limit of a function at a point numerically and algebraically using appropriate techniques including L'Hospital's rule.
CO4	Experiment with differentiation of exponential, logarithmic, trigonometric & prize trigonometric functions in times. Illustrate the consequences of the intermediate value theorem for continuous functions. Show whether a function is differentiable at a point.
B.ScI SEM-II	Subject : Electronics Code : GEC-1301B
COI	Design and analyze the basic operations of MOSFET. Know about themultistage amplifier using BJT in various configurations to determine frequency response and concept of voltage gain. Know the concept of feedback amplifier and their characteristics. Design the different oscillator circuits for various frequencies
CO2	Understand and analyze the IC 741 operational amplifier and its characteristics. Understanding various operating modes of Op-amp and
	its linear/non-linear applications.

	CO4	Understand the basic architecture of 8- bit microprocessors and 16
	CO4	bitmicroprocessor. Identify the addressing modes of an instruction.
		Develop programming skills in assembly language. Able to write
		programs on 8085 microprocessor based systems
	B.ScI	Subject : Computer Science
	SEM-II	Code: CC-CS-1303B
	CO1	Understand Basic elements of a communication system, Data
		Transmission modes, Data Transmission media, Types of networking
		Network Topologies, Definition and declaration, Operations on pointer,
		Pointer initialization, Pointer And Array, Pointer of pointer, Dynamic
		memory allocation.
	CO2	Understand Information Technology IT Assets and its managements, ITAct,
		Definition, declaration, prototype of function, Local and globalvariable, User
		defined functions, Storage classes, Recursion, Pointer and function, Call by value
	CO3	and Call by reference Understand Database Management System, Data Models, Concept of RDBMS,
	CO3	RDBMS Terminologies, DBA & Samp; Responsibilities of DBA, Relational
		Model, Definition and declaration, Array of structures, Passing structure to
		function, Pointer to structure, Nested structure, selfreferential structure, Sizeof
		and typedef, Definition of Union anddeclaration, Difference between structure
		and union
	CO4	Understand Oracle Data types, Classification of SQL commands,
		DataConstraints, Concept of File, Text and binary files, Opening and closingfiles,
	D.G. T	File opening mode.
	B.ScI SEM-II	AECC: English for Business Communication- BCS I B
	CO1	To acquaint the students with employment communication—Writing
		Resume, Acquiring Interview Skills etc
	CO2	To introduce the students with the knowledge of office management.
	CO3	To develop skills of effective communication - both written and oral
	CO4	To make students familiar with modern technology
	CO5	To introduce the students for planning and controlling of office functions
25	Department	Foundry Technology
	PSO 1	B. Voc. Graduates in Foundry Technology will demonstrate knowledge
	5	ofMachine Drawing, Material Science, Gating System Design & Design & Metallurgy
		tosolve actual casting products/processes related problems in Foundries
	PSO 2	Graduates will become Innovators & Entrepreneurs to address
		social,technical and business challenges.
	PSO 3	
	(2)	technique and IT Tools to solve complex problems in design andmanufacturing
(1)		of casting components.
	PSO4	B. Voc. Graduates in Foundry Technology will able to understand and
	PSO 5	7 77
	PSO 6	
		practices in Industry.
	PSO 7	B. Voc. Graduates in Foundry Technology will able to work inIndustry/Foundry
		as a team player as well as a team leader
	PSO 8	
	i	effectively and professionally at Local to Global level.
		tosolve actual casting products/processes related problems in Foundries Graduates will become Innovators & Entrepreneurs to address social, technical and business challenges.  B. Voc. Graduates in Foundry Technology will select and apply relevantmodern technique and IT Tools to solve complex problems in design andmanufacturing of casting components.  B. Voc. Graduates in Foundry Technology will able to understand and solvesocial, health, legal issues related to foundry.  B. Voc. Graduates in Foundry Technology will able to use appropriate environmental friendly processes for foundry to achieve sustainable growth.  B. Voc. Graduates in Foundry Technology will be able apply ethical business practices in Industry.  B. Voc. Graduates in Foundry Technology will able to work inIndustry/Foundry as a team player as well as a team leader  B. Voc. Graduates in Foundry Technology will be able to communicate

PSO 9	B. Voc. Graduates in Foundry Technology will be able to apply Project
	Management Techniques and Financial Management Techniques in foundry.
PSO 10	B. Voc. Graduates in Foundry Technology will demonstrate knowledge of
	Machine Drawing, Material Science, Gating System Design & Design & Metallurgy to
	solve actual casting products/processes related problems in Foundries.
PSO 11	Graduates will become Innovators & Entrepreneurs to address
10011	social,technical and business challenges.
B.Voc Part I	Course Name: ENGINEERING GRAPHICS-I
Sem I	Course Name: ENGINEERING GRAI IIICS-I
CO 1	Use various drawing techniques & amp; drawing instruments.
CO2	Draw various Conics such as Ellipse & Drawing installents.
CO3	Draw various special curves.
CO4	Take appropriate projections of given point.
CO5	Take appropriate projections of given point.  Take appropriate projections of given Line.
B.Voc Part I	Course Name: ENGINEERING MATERIALS
Sem I	Course name: Engineering MATERIALS
CO1	Select appropriate materials and its compositions amongst Ferrous Metals.
CO2	Select & Sel
CO2	Construction.
CO 3	Apply knowledge of Plastics & Drawn; Fibers for Material selection.
CO4	Apply knowledge of Refractory Materials in Industry.
B.Voc Part I	Course Name: PATTERN CONSTRUCTION TECHNOLOGY
Sem I	Course Name . LATTERN CONSTRUCTION TECHNOLOGI
CO1	Identify various types of Patterns & Damp; their Allowances.
CO2	Study of patterns for special processes
CO3	Study process of pattern making.
B.Voc Part I	Course Name: MOULDING TECHNOLOGY
	Course Name . Woodbirt Therm to boot
Sem I	
Sem I	Understand Sand Molding Techniques.
CO1	Understand Sand Molding Techniques.  Understand sand molding machines.
CO1 CO2	Understand sand molding machines.
CO1 CO2 CO3	Understand sand molding machines. Understand various mold design techniques
CO1 CO2 CO3 CO4	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.
CO1 CO2 CO3 CO4 B.Voc Part I	Understand sand molding machines. Understand various mold design techniques
CO1 CO2 CO3 CO4 B.Voc Part I Sem II	Understand sand molding machines. Understand various mold design techniques Identify Core making processes. Course Name: ENGINEERING GRAPHICS-II
CO1 CO2 CO3 CO4 B.Voc Part I	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries
CO1 CO2 CO3 CO4 B.Voc Part I Sem II	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1 CO2 CO3	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1 CO2 CO3	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1 CO2 CO3	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1 CO2 CO 3 CO4	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1  CO2 CO 3 CO4 CO5 CO6	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1  CO2 CO3 CO4	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO 1  CO2 CO 3 CO4  CO5 CO6 B.Voc Part I	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO1 CO2 CO3 CO4 CO5 CO6 B.Voc Part I Sem I	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.  Course Name: MELTING TECHNOLOGY
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO1 CO2 CO3 CO4 CO5 CO6 B.Voc Part I Sem I	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.  Course Name: MELTING TECHNOLOGY  Handle scraps and select proper charging method in furnace
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO1  CO2 CO3 CO4  CO5 CO6 B.Voc Part I Sem I CO1	Understand sand molding machines. Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.  Course Name: MELTING TECHNOLOGY  Handle scraps and select proper charging method in furnace type and grade of metalcomposition
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO1  CO2 CO3 CO4  CO5 CO6 B.Voc Part I Sem I CO1	Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.  Course Name: MELTING TECHNOLOGY  Handle scraps and select proper charging method in furnace type and grade of metalcomposition  Find appropriate melting operations and decide post melting treatments as per
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO1  CO2 CO3 CO4  CO5 CO6 B.Voc Part I Sem I CO1  CO2	Understand sand molding machines.  Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.  Course Name: MELTING TECHNOLOGY  Handle scraps and select proper charging method in furnace type and grade of metalcomposition  Find appropriate melting operations and decide post melting treatments as per type and grade of metal  Decide correct procedure of composition control as per required properties and composition.
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO1  CO2 CO3 CO4  CO5 CO6 B.Voc Part I Sem I CO1  CO2	Understand sand molding machines.  Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.  Course Name: MELTING TECHNOLOGY  Handle scraps and select proper charging method in furnace type and grade of metalcomposition  Find appropriate melting operations and decide post melting treatments as per type and grade of metal  Decide correct procedure of composition control as per required properties and composition.  Select appropriate parameters for efficient operations of furnace
CO1 CO2 CO3 CO4 B.Voc Part I Sem II CO1  CO2 CO3 CO4  CO5 CO6 B.Voc Part I Sem I CO1  CO2 CO3	Understand sand molding machines.  Understand various mold design techniques Identify Core making processes.  Course Name: ENGINEERING GRAPHICS-II  Use concepts of engineering drawing for Manufacturing/Fabrication/Design in foundry/Industries  Visualize and draw various projection methods for lines and planes  Visualize and draw various projection methods of solids  Understand sketching of development of surfaces  Read and Interpret concepts of Isometric and Perspective Projections.  Use various commands in Computer Aided Drafting.  Course Name: MELTING TECHNOLOGY  Handle scraps and select proper charging method in furnace type and grade of metalcomposition  Find appropriate melting operations and decide post melting treatments as per type and grade of metal  Decide correct procedure of composition control as per required properties and composition.

B.Voc Part I Sem I	Course Name: GATING SYSTEM AND RISERING
CO1	Select appropriate Gating System.
CO2	Design Gating system for given mould.
CO3	Design appropriate risers for a particular mould
	Course Name : CASTING PROCESSES:
	Select appropriate casting method for the components
CO2	Analyze casting defects & amp; implement remedial measures in the foundry
Department	Animation and Film Making
PSO 1	B. Voc. Graduates in Animation & Film making will demonstrate that the cercal study of cinema inform their filmmaking and that the study and practice of film production enhance their work as film scholars analysts.
PSO 2	B. Voc. Graduates in Animation & Film making will Computer Animation and Game Development graduates will have an understanding of critical and aesthetic issues in computer graphics and mixed-media
PSO 3	B. Voc. Graduates in Animation & Film making will access industry related learning resources.
PSO4	B. Voc. Graduates in Animation & film making will create effective visual animations using the elements of story
PSO 5	B. Voc. Graduates in Animation & film making will identify and apply the 12 principles of animation. List of films featuring clay animation
PSO 6	B. Voc. Graduates in Animation & Film making will relate some knowledge of the history of animation.
PSO 7	B. Voc. Graduates in Animation & film making will demonstrate entry-level workplace computer competencies using industry standard 2D & 3D animation software
PSO 8	B. Voc. Graduates in Animation & film making will demonstrate industry professional standards within their attitudes, conduct, ethics and work
PSO 9	B. Voc. Graduates in Animation & film making will design layouts and backgrounds that incorporate principles of composition, perspective and color, with speed accuracy and dexterity, using a variety of media.
B. Voc Part I Sem I	Course Name: English for Business Communication
CO 1	Use appropriate words and sentences for effective communication.
CO 2	Use various data representation techniques.
CO 3	Use appropriate skills for resume writing.
CO 4	Understand skills required for effective interview.
B. Voc Part I	Course Name: Fundamentals Of Art
Sem I	·
	CO1 CO2 CO3 CO1 CO2  Department PSO 1  PSO 2  PSO 3  PSO 4  PSO 5  PSO 6  PSO 7  PSO 8  PSO 9  B. Voc Part I Sem I CO 1 CO 2 CO 3 CO 4

CO 1	CO-1 (4-1-411111-1-1-1-1-1-1-1-1-1-1-1-
CO 1	COs 1 Students will have demonstrable skills in their area of emphasis. These
	skills include formal and conceptual applications of foundation principles within
CO2	their primary media.
CO2	Demonstrate basic practical visual art research skills, techniques and approaches
CO 2	to art making.
CO 3	Create meaningful links between concepts and materials within a contemporary
COs 4	framework, relating to the history and theories of art.
B. Voc Part I	Demonstrate a clear understanding of art as a language across 2D and 3D studies.  Course Name: Perspective
Sem I	Course Name: Perspective
Sem 1	1/5/
COs 1	They relate to building knowledge and awareness, enhancing critical reflection, developing synthetic, analytical and presentation skills,
COs 2	Perspective-taking is the process by which an individual views a situation from
COS 2	another's point-of-view.
COs 3	Being able to analyze a situation from multiple perspectives, apply knowledge to
2052	new cases and present work fluently and convincingly
COs 4	Interpret and evaluate artistic expression considering the cultural context in
	which it was created
B. Voc Part I	Course Name: History Of Animation
Sem I	
COs 1	Students completing an assignment in Area C (Arts) courses will be able to
	analyze modes of artistic expression.
COs 2	Students will be able to identify through analysis the role of institutions
	(religious, political, economic, social, educational, etc.) in the development of all
	periodculture.
	,10
COs 3	Students will be able to assess and explain the repeating patterns of population
	rushes that characterize the history of area.
CO 4	
COs 4	Through research, students will present a paper showing and evaluating an element of change in history.
B. Voc Part I	Course Name: English for Business Communication
Sem II	Course Name. English for Business Communication
COs 1	Use appropriate words and sentences for effective communication.
COs 2	Use appropriate skills for resume writing.
COs 3	Use various data representation techniques.
COs 4	Understand skills required for effective interview.
B. Voc Part I	Course Name: Colour Theory
Sem II	Course Humos Colour Theory
COs 1	Recognize color as a quality in the physical world, including natural phenomena.
	Be able to describe a variety of uses of color
COs 2	Apply color principles to 2 and 3 Dimensional design problems
COs 3	Color Theory is a Animation course that develops a student's understanding of
	the complex nature of color.
COs 4	The student will demonstrate skills in designing with color, while developing
	sensitivity through hue, value, intensity, proportion and placement in a
	composition.
B. Voc Part I	Course Name: Classic Animation
Sem II	
CO1	Enhance your drawing skills with storyboard and background design exercises.
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	CO2	Create storyboards for an animated film, character model sheets, layouts, and final artwork for rendering.
	002	Progress to the art direction, digital ink and paint phase of production on
	CO3	your final project.
	CO4	Assemble a traditional animation portfolio in preparation for graduation.
	B. Voc Part I	Course Name: Digital Animation
	Sem II	
	COs 1	Create drawings and paintings using custom brush libraries.
	COs 2	Export digital content for use in other software programs
	COs 3	Use Bezier paths to digitally ink vector graphic drawings
	COs 4	Demonstrate the synthesis of story, style, character, location, emotion, and symbology in compositional studies.
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27	<b>Department</b>	Graphic Design
	PSO 1	Students will be able to Understand a Good Painting, Good Design and Good Photograph. Also able to make a Painting, Sketching.
	PSO 2	Students will be able to understand software tools and techniques for
		Manipulations, Image Editing, Creating designs and layouts.
	PSO 3	Students will be able to understand various font styles, understand serif/non serif
		fonts and how to using fonts or manuscript in the design.
	PSO4	Students will be able to understand the Depth in design, Painting and Photograph.
	PSO 5	Students will be able to develop concepts and provide design solutions in
		responseto a given brief or end user of the company product.
	PSO 6	Students will be able to present a range of promotional material, using branding
		guidelines in support of a given brand.
	PSO 7	Students will be able to read a famous logo and create a unique logo by following
		steps of Research, Mind Storming and Sketching.
	PSO 8	Students will be able to take a artistic photograph and professional image editing.
		In Indoor-Outdoor, Function, Industrial Area, Product, Wildlife and Model.
	PO 09	
1		Students will be able to create a Website Design, Mobile App Design and App\Website wireframe design.
	PO10	and App (website witerfame design.
	PO10	Students will be able to create conceptual solution for social and advertising campaigning.
	PO11	Students will understand awareness of the designer's roles and responsibilities
		and how to present themselves and their work within a commercial environment.
	B.Voc Part I Sem I	Course Name :Color Theory Part I
11	CO 1	Understand the relationship between Value, Hue, Chroma. The Color Wheel -
1		theories of Color Relationships/Harmonies.
	CO2	Understand to illustrate the application of color in three different color harmonies
		ona repeat side to side pattern of one's original design. Illustrate
		understanding of color
		proportion and extension. Develop and demonstrate ability to recognize color
		harmonies and proportions of color used by designers in existing spaces

CO3	Understand Color Symbolism, Color Psychology, Historical & Contemporary use of
	Color. Local color and subjective use of color. Emotional effects Personal Colorpreferences.
CO4	To develop more mature and varied colour skills using Graphic Software.
B.Voc Part I Sem I	Course Name : Elements of Art and Principles of Design
CO1	Discover the basic principles of two dimensional design through the manipulation of black, white and gray.
CO2	Encourage to adopt a creative approach to problem solving and to become self-critical in the editing of the work.
CO3	Develop a vocabulary of terms specific to the visual arts and particularly two dimensional art
CO4	Use elements and principles in various designs created by using Graphic Design Software
B.Voc Part I Sem I	Course Name : History of Graphic Design
CO1	Provide exposure to images and information to inspire great work, further study, and exploration. Organize information for better communication
CO2	Identify influences and characteristics of design styles. Recognize significant contributors to design.
CO3	Observe and discuss examples of effective design. Recognize prevalent historical design themes.
CO4	Understand unification/separation of design and society. Unification/separation of design and technology
B.Voc Part I Sem II	Course Name :Color Theory Part II
CO1	Understand that when producing physical colors as in paint a Subtractive System is used and when producing colors digitally as on a computer an Additive System is used.
CO2	Understand to illustrate the application of color in three different color harmonies on a repeat side to side pattern of one's original design. Illustrate understanding of color proportion and extension. Develop and demonstrate ability to recognize color
GOA	harmonies and proportions of color used by designers in existing spaces.
CO3	Understand that color is a meaningful constant for sighted people and it's a powerful psychological tool. By using color psychology, he can send a positive or negative message, encourage sales, calm a crowd, or make an athlete pump iron harder.
CO4	Understand Color Psychology, applying Color Psychology to Everday Life.
B.Voc Part I Sem II	Course Name : TYPOGRAPHY
CO1	Understand generation of letter forms, including analysis of basic alphabet categories and rationale of individual letter-style characteristics.
CO2	Understand fundamentals of typography with emphasis on the formal aspects of designing with typographic elements.
CO3	Study contexts allowing the individual nature of the project content and audience to start influencing and determining their typographic choices.

CO4	Use typography for meaningful design solution with minimal content by using
	Graphic Design Software.
B.Voc Part I	Course Name : PERSPECTIVE
Sem II	
CO1	Understand the art of representing three-dimensional objects on a two
	dimensional surface so as to give the right impression of their height, width,
	depth, and position in relation to each other.
CO2	Know all details in perspective. Perspective drawings have a horizon line, which
	is often implied. This line, directly opposite the viewer's eye, represents
	objects infinitely far away. They have shrunk, in the distance, to the infinitesimal
	thickness of
	a line.
CO3	
	Understand types of perspective. One point perspective uses one vanishing point
	placed on the horizon line. Two point perspective uses two points placed on the
	horizon line. Three point perspective uses three vanishing points.
CO4	Use perspective in various designs created by using Graphic Design Software
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B.Voc Part II	Course Name : Advertising Art - Part I
Sem III	Course Name . Advertising Art - 1 art 1
	The departured interesting to advantising defining advantising
CO1	Understand introduction to advertising – defining advertising,
G02	Schematic history of advertising. Concepts of advertising
CO2	Understand and Study main trends in advertising. Strategy, Period, Focus and
	Themes. Rational vs. non-rational: Evolution of strategies. Strategy of
	repetition, use of text and patterns, typography and the creation of slogans.
CO3	Understand Advertising and society- Advertising business offers employment,
	Advertising promotes freedom of press, Information and freedom of choice,
	Advertising creates demand and consequently sales, Advertising reduces selling
	cost, Advertising creates employment, Advertising establishes reputation and
	prestige, Truth in advertising, Advertising tries to raise the standard of living.
CO4	Study Ethics, regulation and social responsibilities taste and advertising,
	Stereotyping in advertising, Advertising to children, Advertising controversial
	products.
B.Voc Part II	Course Name : Calligraphy
Sem III	
CO1	Understand basic of art in calligraphy by studying elements,
	principles, proportion and balance.
CO2	Understand and Study the art, symbolic expression, history and importance of
11.0	calligraphy. Practice the calligraphy in ink and colour with pen, bamboo and
	brush in different types like English, Sanskrit, and Devanagiri etc.
CO3	Study Computer Graphics (Theory) - (i) Graphic Design for Calligraphers
	(ii) Letters as Subject: Written, Drawn & Painted
11.	(iii) The Joy of Calligraphy: Developing a Personal Script
CO4	Study Professional Calligraphy: (i) Lettering (ii) Logos (iii) Illustration
	(iv) Communication Design (Banners, Posters, Backdrops etc) (v) Illumination
	(vi) ICT in Graphic Design
	(1) 101 in Graphic Dough
B.Voc Part II	Course Name : Printing Technology - Part I
Sem III	Course maine . I intellig recliniology - I alt I
CO1	To understand Meaning of Printing and use of printing technology.
(01	
	History of printing, types of letters, printing press and industrial
	printing press

To understand & study types of Type Setting — Manual type setting, hot metal type setting and digital type setting   CO4	CO2	To understand & study Lithography Printing Process.
hot metal type setting and digital type setting  CO4 To understand & study PAPER. History of paper, making process of paper, recycling of paper and types of paper.  CO5 To understand & study Screen Printing Process.  CO6 To understand & study Offset Printing Process and Plate Making Process.  B Voc Part II  CO1 Understand advertising Art - Part II  CO1 Understand advertising and marketing – marketing plan, Advertising role in marketing: Types of market, Approaching market, The marketing concept and relationship marketing, Channel of distribution, Pricing.  CO2 Understand and Study Campaign planning objectives and basic principles, Campaign objectives, Factors influencing the planning of advertising campaign, The selling methods, Campaigning a new product, Layout design principles.  CO3 Understand and study Creative side of the advertising – what is creative advertising, Creative leap, Creative concept, Strategy and creativity, Creativity and strategy in the message design, Creative thinking.  CO4 Study Level aspects of advertising – copyright, Trade mark, Consequences of advertising, Status of advertising agents – outdoor advertising, advertisements in newspapers and magazine, cinematography – radio and television advertising.  B.Voc Part II  Sem IV  CO1 To understand & study meaning of packaging and history.  CO2 To understand & study types of packaging and paper packaging methods.  CO4 To understand & study types of packaging and paper packaging methods.  CO5 To understand & study USP (Unique selling product).  CO6 To understand & study USP (Unique selling product).  CO7 To understand & study USP (Unique selling product).  CO8 To understand & study USP (Unique selling product).  CO9 To understand & study USP (Unique selling product).  CO9 To understand & study USP (Unique selling product).  CO9 To understand & study USP (Unique selling product).  CO9 To understand & study digital printing process and fine art inkjet printing process.  CO2 To understand & study process of demaking, creasing process and die c		
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B.Voc Part II   Course Name : Advertising Art - Part II	CO5	
Sem IV	CO6	To understand & study Offset Printing Process and Plate Making Process.
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CO6 To understand & study process of UV coating and types of UV coating	CO2	fine art inkjet printing process.  To understand spiral binding, center pinning, loop center pinning, perfect binding and perfect sewing binding.  To understand & study process of die making, creasing process and die cutting process.  To understand & study process of advance technology of 3D printing.
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