



PVKN.Govt.College(A), Chittoor
Chittoor (Dt)., Andhrapradesh, 517002

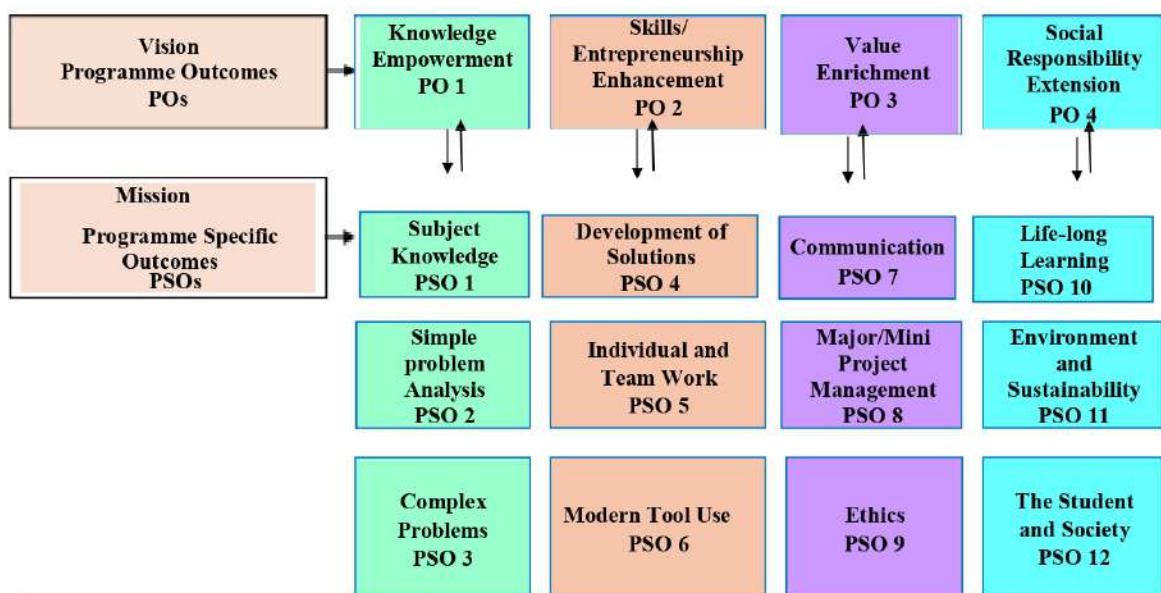
**Programme Learning Objectives (PLOs),
Programme Outcomes (POs),
Programme Specific Outcomes (PSOs)
&
Course Outcomes (COs)**

2020-21

PVKN.Govt.College(A), Chittoor
Chittoor (Dt), AP, 517002



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PVKN.Govt.College(A), Chittoor
STATEMENT OF OUTCOMES

PVKN GOVT.COLLEGE(A), CHITTOOR

PROGRAMME OUTCOMES : UG 2020-2021

S. No	Program	Group & Program Code	Program Outcome Number	Program Outcomes
1	B.A.,	1. HEP (B-0101-0) 2. HPT (B-0102-0)	PO1	To make Students to gain revelant knowledge that forms a strong foundation in core discipline
			PO2	To Improve discipline - specific skills in oral communication by presenting their views in formal and informal class debates, discussion, presentations about complex theortical concepts from a wide range of sources and disciplines
			PO3	To facilitate students on moral and Philosophical theories of History, Economic ,Political Science and Social work bases on Ethical dimensions.
			PO4	To provide intellectual training and develop a deep understanding of historical, economic, political and social issues. Function in a national and global framework and strive for the welfare of society.

PROGRAMME OUTCOMES : UG 2020-2021

S. No	Program	Group & Program Code	Program Outcome Number	Program Outcomes
2	B.Com	1. Gen (B-0201-0) 2. CA (B-0202-5) 3. B & I (B-0203-5)	PO1	To facilitate adequate Knowledge and understanding in core disciplines that can be applied in the present day global corporate scenarios
			PO2	To develop discipline - specific skills through a critical examinations of new developments,practices, challenges and the impact of computer applications in business, trade and commerce in local, national and international frame works.
			PO3	To develop ethical values through a spirit of healthy competition, cooperation and empathy while applying concepts in real life situations.
			PO4	To understand and appreciate the contribution of business to the society and motivate to work for its development

PROGRAMME OUTCOMES : UG 2020-2021

S. No	Program	Group & Program Code	Program Outcome Number	Program Outcomes
3	B.Sc	1. MPC (B-0301-5) 2. MPCS (B-0303-5) 3. MSCS (B-0304-5) 4. MECS (B-0306-5) 5. BZC (B-0302-5) 6. MZC (B-0305-5) 7. BHC (B-0307-5) 8. MBC (B-0308-5)	PO1	To Facilitate students with requisite theoretical and practical knowledge and apply them in inter disciplinary scientific fields
			PO2	To develop skills and nurture talents of students through various activities, promote passion for research through mini/major projects and enhance employability
			PO3	To help learners in understanding the importance of ethical values in all walks of life.
			PO4	To make them aware of environmental concerns, be committed to sustainable development and strive to promote a harmonious society.
			PO5	To develop a comprehensive Knowledge of the functioning of cells and genes in the body of organisms and plants in an eco-friendly environment.
			PO6	To impart skills to diagnose different diseases and motivate them to establish diagnostic centers.

PROGRAMME OUTCOMES : UG 2020-2021

S. No	Program	Group & Program Code	Program Outcome Number	Program Outcomes
			PO7	To understand ethical concerns and responsibilities associated with these core disciplines
			PO8	To apply technology for a better life, through improved nutritional quality, recycling of waste , and strive for sustainable development of society
			PO1	The B.Voc. programme is focused on universities and colleges providing undergraduate studies which would also incorporate specific job roles and along with broad based general education.
			PO2	This would enable the graduates completing B.Voc. to make a meaningful participation in accelerating India's economy by gaining appropriate employment, becoming entrepreneurs and creating appropriate knowledge.

PROGRAMME OUTCOMES : UG 2020-2021

S. No	Program	Group & Program Code	Program Outcome Number	Program Outcomes
4	B.Voc	Food Processing Technology (BV-0301-5)	PO3	UGC NSQF within the undergraduate level of higher education in order to enhance employability of the graduates and meet industry requirements. Such graduates apart from meeting the needs of local and national industry are also expected to be equipped to become part of the global workforce.
			PO4	Ensuring that the students have adequate knowledge and skills, so that they are work ready at each exit point of the programme. Provide flexibility to students by means of pre-defined entry and multiple exit points.
			PO5	Comprehensive knowledge of one or more disciplines that form a part of an undergraduate B.Voc programme Execute strong theoretical and practical understanding generated from the chosen B.Voc programme.


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PROGRAMME SPECIFIC OUTCOMES : UG 2020-2021

S. No	Year	Program Code	Title of the Program	Program Outcome Number	Program Specific Outcomes
1	2020-21	B.A.,	HEP	PSO1	History : Students will understand the evolution of man, the development of cultural civilization, evolution of the polity and the chronological aspects of History. Studying the past enables the student to comprehend the present age in a broader perspective.
				PSO2	Economics : Grasp the theories of economics at micro and macro levels, Indian Economy with its current trends and application of Mathematics and statistics in economics, understand Rural Economy, Rural Marketing and Rural Industrialization. This course enables them to take up entrepreneurship at the micro level.
				PSO3	Political Science : Develops and demonstrates academic proficiency in the sub-fields of Political Theory, Indian Govt. and Politics, Comparative Govt. International Relations, World Constitutions, Human Rights and Public Administration. The Student will develop analytical, critical thinking and get orientation towards research skills in Political Science.
2	2020-21	B.A.,	HPT	PSO1	History : Students will understand the evolution of man, the development of cultural civilization, evolution of the polity and the chronological aspects of History. Studying the past enables the student to comprehend the present age in a broader perspective
				PSO2	Political Science : Develops and demonstrates academic proficiency in the sub-fields of Political Theory, Indian Govt. and Politics, Comparative Govt. International Relations, World Constitutions, Human Rights and Public Administration. The Student will develop analytical, critical thinking and get orientation towards research skills in Political Science.
				PSO3	Telugu Literature : Analyze the different genres of literary texts from Old Poetry and Drama, Old Poetry and Modern Poetry of Telugu Literatures. The Student learns the close reading of text while critically appreciating them.
3	2020-21	B.Com	GEN	PSO1	Knowledge of Major theories and models in key areas motivate them to pursue higher studies/research/face competitive examinations leading to career opportunities.
				PSO2	Apply critical and analytical skills and methods to identify, analyze and solve complex problems and generate research based solutions. Use ICT and e- resources to retrieve relevant information in core subjects.
				PSO1	Knowledge of Major theories and models in key areas motivate them to pursue higher studies/research/face competitive exam like CA,CS,ICWA and other courses.

PROGRAMME SPECIFIC OUTCOMES : UG 2020-2021

S. No	Year	Program Code	Title of the Program	Program Outcome Number	Program Specific Outcomes
4	2020-21		CA	PSO2	Demonstrate effective and critical decision making skills
				PSO3	Practical Skills promises them a bright career as computer professionals, audit assistants, business, entrepreneurs, managers and consultants in financial supporting services sectors
5	2020-21	B.COM	BANKING AND INSURANCE	PSO1	To have knowledge of banking, insurance and capital market law besides fundamental legal knowledge,
				PSO2	This programme is to carry out financial analysis of banks and insurance companies,.
				PSO3	This programme will give to express their opinions about banking and insurance in Written and oral form, based on the basic knowledge and skills they acquire
				PSO4	To analyze risks and financial problems,
				PSO5	This programme will provide to students to become success in competitive exams for Pursuing professional courses BANK and insurance Companies
PSO6	This programme will give consciousness of life long learning, jobs in Banks and insurances companies which is suitable for this course.				
6	2020-21	B.Sc	MPC	PSO1	Mathematics : Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.
				PSO2	Physics : Able to understand various Physics - bases applications in daily life and get motivated to pursue higher studies, research, attempt competitive examinations leading to career opportunities industries.
				PSO3	Chemistry : Enables students to understand the nature of matter at atomic and molecular levels, their bonding , co-ordination, structures and the physical, chemical properties which is essential in designing processes and analysis in various industries like Pharmaceutical , Chemical, Agricultural , Textile, Petroleum, Cosmetics, Polymer and Chemical Technology etc.,
7	2020-21	B.Sc	MPCs	PSO1	Mathematics : Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.
				PSO2	Physics : Able to understand various Physics - bases applications in daily life and get motivated to pursue higher studies, research, attempt competitive examinations leading to career opportunities industries.

PROGRAMME SPECIFIC OUTCOMES : UG 2020-2021

S. No	Year	Program Code	Title of the Program	Program Outcome Number	Program Specific Outcomes
				PSO3	Computer Science : Builds a strong technical base foundation information technology to face the challenges of the future. Upon completion of the course, students would be able to develop projects effectively and independently, and be able to provide simple software solutions to real life practical problems using related technologies.
8	2020-21	B.Sc	MSCs	PSO1	Mathematics : Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.
				PSO2	Statistics : Ability to recognize the connections between theory and real time applications. Skills acquired help them to handle vast data through statistical analysis techniques in diverse disciplines. Students will be able to independently expand their statistical expertise by reading statistical literature, survey articles, scholarly books and online sources.
				PSO3	Computer Science : Builds a strong technical base foundation information technology to face the challenges of the future. Upon completion of the course, students would be able to develop projects effectively and independently, and be able to provide simple software solutions to real life practical problems using related technologies.
9	2020-21	B.Sc	MECs	PSO1	Mathematics : Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.
				PSO2	Electronics : Become competent to develop industrial and entrepreneur applications through the knowledge of design process, assembly language & high level language programmin, interfacing of electronic devices with computers etc.,
				PSO3	Computer Science : Builds a strong technical base foundation information technology to face the challenges of the future. Upon completion of the course, students would be able to develop projects effectively and independently, and be able to provide simple software solutions to real life practical problems using related technologies.
				PSO1	Botany : Enable students to understand Plant Morphology, Physiology, Anatomy, Embryology, Genetics of Plants , Plant identification, Plant Ecology and Human Welfare, Medicinal Values of Plants , Pharmacognosy and Phytochemistry and development of Organic farming for sustainable Agriculture

PROGRAMME SPECIFIC OUTCOMES : UG 2020-2021

S. No	Year	Program Code	Title of the Program	Program Outcome Number	Program Specific Outcomes
10	2020-21	B.Sc	BZC	PSO2	Zoology : Zoology deals with Origin of Life, life in diversified forms, its mysterious ways of functioning the body of organisms, its formation from simplicity to complexity, the precise functioning of cells and genes, the economical importance of various organisms, genetic manipulation for human welfare, the relationship between biotic and abiotic factors, intra and intra specific animal relationships and their interdependency and identification of pathogenic organisms and rectification of different Diseases. It creates aesthetic mind-set and calls for conservation.
				PSO3	Chemistry : Enables students to understand the nature of matter at atomic and molecular levels, their bonding , co-ordination, structures and the physical, chemical properties which is essential in designing processes and analysis in various industries like Pharmaceutical , Chemical, Agricultural , Textile, Petroleum, Cosmetics, Polymer and Chemical Technology etc.,
11	2020-21	B.Sc	BHC	PSO1	Basic concepts of Horticulture are an art of cultivating garden.
				PSO2	Variety of plants can be developed by various methods of Horticulture and Skill based opportunities can be enhanced for future settlement.
				PSO3	In order to understand the plant growth the chemistry of soil science Plays a vital role in the development of bio-diversity plants, animals and Environment that are interrelated to sustain the earth planet.
				PSO4	Quality of life is increased due to the balancing of Chemicals (Harmon's imbalance, deficiency of nutrients) can be rectified to improve the life span.
				PSO5	Horticulture therapy:-In older adults face more risk factors(dementia, aphasia, etc.,) which can be overcome with participating voluntarily in their leisure time in the therapy of horticulture in the Green House.
				PSO6	The plants related to horticulture are said to be protective foods(Fruits& Vegetables) as the support the health with the vitamins and minerals etc.,
				PSO1	Micro-Biology : Knowledge on microbial classification, structures, general characters, nutrition, growth and control that enables students to analyze various micro-organisms and their applications in Medical, Industrial, Environmental and Agricultural aspects of Micro-Biology

PROGRAMME SPECIFIC OUTCOMES : UG 2020-2021

S. No	Year	Program Code	Title of the Program	Program Outcome Number	Program Specific Outcomes
12	2020-21	B.Sc	MBC /MZC	PSO2	Botany : Enable students to understand Plant Morphology, Physiology, Anatomy, Embryology, Genetics of Plants , Plant identification, Plant Ecology and Human Welfare, Medicinal Values of Plants , Pharmacognosy and Phytochemistry and development of Organic farming for sustainable Agriculture
				PSO3	Chemistry : Enables students to understand the nature of matter at atomic and molecular levels, their bonding , co-ordination, structures and the physical, chemical properties which is essential in designing processes and analysis in various industries like Pharmaceutical , Chemical, Agricultural , Textile, Petroleum, Cosmetics, Polymer and Chemical Technology etc.,
13	2020-21	B.Voc	Food Processing and Technology (BV-0301-5)	PSO1	This program would enable students to update their knowledge and professional skills for entering the work force executing income generating activities or occupying better positions
				PSO2	Applying knowledge of general education subjects and skill development subjects to the conceptualization of food processing technologies.
				PSO3	Designing and formulation of new food products, on the basis of consumers demands, development of methodology/technologies of food processing, design that meet solutions needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
				PSO4	Conduct and undertake investigations of problems of including design of processing technology for various type food, food analysis, food quality and safety aspects and interpretation of data in order to provide valid conclusions.
				PSO5	Create, select and apply appropriate processing technology/techniques, resources, modern processing tools in order to improve the quality, safety and the shelf life fresh and process food.
				PSO6	Communicate effectively on minimal processing activity and value addition to the farmers/producers/grower at large, such as being able to comprehend and write effective reports, design documentation and make effective presentations.
				PSO7	Demonstrate understanding of the social, health, safety, legal and cultural issues and the consequent responsibilities relevant to Food processing.
				PSO8	Understand and commit to professional ethics and responsibilities and norms/regulation for manufacturing of process food and its effects on health.

PROGRAMME SPECIFIC OUTCOMES : UG 2020-2021

S. No	Year	Program Code	Title of the Program	Program Outcome Number	Program Specific Outcomes
				PSO9	Understand the impact of food processing technologies solutions in a societal context and demonstrate technical know-how and understanding of food safety, quality for sustainable development.


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COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
I. ENGLISH : 2020-2021						
1	2020-21	GENERAL ENGLISH SEM - I	20-ENG-1C1	English Praxisix Course - I - A Course Communication and Soft Skills	CO1	Acquisition of the four Language Skills- LSRW in English Language Learning
					CO2	Ability to comprehend the grammatical structures
					CO3	Apprehend the basic concepts required for developing Soft Skills
					CO4	Apprehend the basic concepts required for developing Soft Skills
					CO5	Adopt the functions of Phonemes and Stress
2	2020-21	GENERAL ENGLISH SEM - II	20-ENG-2C2	English Praxisix Course - II - A Course Reading and Writing Skills	CO1	Demonstrate Critical Thinking
					CO2	Enhance Conversational Skills by observing the Professional interviews
					CO3	Face any Professional discourse
					CO4	Speak fluently in English
3	2020-21	GENERAL ENGLISH SEM - III	20-ENG-301	English for Empowerment - III	CO1	Write a paragraph, letter, e-mail and cover letter.
					CO2	Paraphrase and summarize the given text.
					CO3	Describe a process and explain the concepts like Positive Attitude, Body Language, SWOC and Emotional Intelligence.
					CO4	Prepare their Curriculum Vitae or Resume.
					CO5	Apply the knowledge of soft skills like Positive Attitude, Body Language, SWOC, Emotional Intelligence and Netiquette in their practical life.
					CO6	Distinguish between Paraphrasing and summarizing.
2. GENERAL AND SPECIAL TELUGU : 2020-2021						
1	2020-21	GENERAL TELUGU- SEM-I	20-TEL-1C1	Classical Telugu Poetry and Grammar	CO1	రాజా ప్రజల సంక్షేమ కొరకు ఎలాంటి పద్ధతులను పాటించాలి. ఉద్యోగస్థుల నియమకంలో ఎలాంటి నియమాలను పాటించాలి బోధిస్తుంది.
					CO3	పల్నాటి యుద్ధంలో బాలచంద్రుని పరాక్రమాన్ని వివరిస్తుంది.
					CO4	భక్తి విశిష్టతను సామాజిక పరిస్థితులను వివరిస్తుంది.
					CO5	స్త్రీల గొప్పతనాన్ని, మరియు భారతీయ స్త్రీల పతిభక్తిని బోధిస్తుంది.
					CO6	తెలుగు వ్యాకరణ నియమాలను వివరిస్తుంది.
					CO1	నాటక సాహిత్యం పై అవగాహన కలుగు తుంది
2	2020-21	GENERAL TELUGU- SEM-II	20-TEL -2C2	MODERN TELUGU LITERATURE	CO2	ఆధునిక కవితా లక్షణాలను అభ్యసించడం వల్ల సృజనాత్మకమైన ఆలోచనలు వృద్ధి చెంది నూతన కల్పనా సాహిత్యానికి విద్యార్థి పూనుకుంటాడు
					CO3	కథ మరియు నవలా సాహిత్యంలోని పత్రాల విశ్లేషణ ద్వారా సమకాలీన సమాజాన్ని అనువర్తనం చేయగలరు
					CO4	సమీక్షా వ్యాసాలు అభ్యసించడం వల్ల విద్యార్థుల్లో విశ్లేషణాత్మక జ్ఞానం అలవడుతుంది
					CO5	ఆధునిక సాహిత్యం వల్ల ఇతివృత్తంలోని ఏవి సమాజికాంశాలో, ఏవి వ్యక్తిగాతాంశాలో, ఏవి ఆలోచనాత్మకాంశాలో, ఏవి సమకాలీనాంశాలో విద్యార్థులు అవగాహన చేసుకోగలరు.
					CO1	బలిచక్రవర్తి మానవ నిర్మూలన నిజాయితీని బోధిస్తుంది.
		GENERAL		CLASSICAL AND MODERN	CO2	గురజాడ అప్పారావు రచనా విశిష్టతను దేశభక్తిని వివరిస్తుంది.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
3	2020-21	TELUGU-SEM-III	20-TEL-301	POETRY, DRAMA, GRAMMAR AND SYNTAX	CO3	మానవ నీకహస్వాభావాల్ని వరడు నాటకం బోధిస్తుంది.
					CO4	అలంకారాలు ఛందస్సు పట్ల ఆసక్తి ని పెంపొందించు కుంటారు.
					CO5	విద్యార్థులు భాష వాక్య నిర్మాణం పై పూర్తి అవగాహన కలిగి వుంటారు
3. HINDI : 2020 - 2021						
1	2020-21	I	20-HIN-IC1	PAPER – I GENERAL HINDI PROSE SHORT STORIES AND GRAMMAR	CO1	Develop Hindi reading & linguistic comprehension of students
					CO2	Inculcate moral and human values within Themselves
					CO3	Understand the types of Hindi Short Story Writing. Use their moral and social sense in life
					CO4	It gives knowledge of the word formation besides the knowledge in Hindi Grammar
2	2020-21	II	20 –HIN- 2C2	HINDI PROSE, SHORT STORIES AND GRAMMAR	CO1	Develop Reading, Writing & Communication skills
					CO2	Develop knowledge of Literary forms in Hindi Story.
					CO3	Develop the story reading skills.
					CO4	Know the importance of criticism. Develop knowledge of Hindi Linguistics & Grammar.
3	2020-21	III	20-HIN-301	PAPER-III GENERAL HINDI Old & Modern poetry, History of Hindi literature, General Essays, Translation and Official letters	CO1	Know the brief literature in Bhakti Sahitya. Use literature to develop their social and moral sense in life.
					CO2	Get introduced to the General Essay. Gains research skills and improves critical-thinking skills.
					CO3	Identifying the eminent Hindi writers Describing the spirit of nationalism as well as nature consciousness in Makhnallal Chaturvedi's poem चरण चले, ईमान अचल ही !
					CO4	Learn values through literary works. Understanding the origin of Hindi language and its literature.
4.. SANSKRIT : 2020 - 2021						
1	I	I	20 SAN-1C1	poetry prose and grammar	CO1	1.improve the reading and learning skills 2.outcomes the arthagrahanam 3.outcomes bhavavyakhikaranam
2	II	II	20 SAN-2C2	poetry prose and grammar	CO1	1.improve the byharting of slokas with bhavam 2. improve the arthasamgrahanam 3.improve the Vyakaranam
3	III	III	20 SAN-301	poetry prose and grammar	CO1	1.improve the creative skills 2.improve the reading of sahyam 3. improve the language basics
5. TAMIL 2020-2021						
1	2020-21	I	20-TAM-1C1	History of Tamil Literature, General Composition, Translation and Non – Detailed	CO1	The Antiquity and greatness of Tamil
					CO2	The righteous and justice of the Ancient period
					CO3	The faith and devotion of the people
					CO4	Modern Literature, novel and short story
					CO5	Writing Skills, Translation Skills from Tamil to English and Learning
2	2020-21	II	20-TAM-2C2	History of Tamil Literature, General Composition, Translation and Non – Detailed	CO1	Study of Ancient History Poets
					CO2	Origin of Tamil literature in Ancient period
					CO3	Rural People Social Activities, habits and customs
					CO4	Contribution of Europeans for Tamil Development
					CO5	Writing Skills, Translation Skills from Tamil to English and Learning

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
3	2020-21	III	20-TAM-301	Prose , Poetry, Non-Detailed – Grammer	CO1	Believe in God and have faith and hope
					CO2	Teachers alms giving and read joyful life
					CO3	The Epic of silapathigaram
					CO4	Panchalisabadham from Maha Bharatham
					CO5	Learning Tamil grammar
6. . URDU: 2020-2021						
1	2020-21	I	20-URD-1C1	Urdu Poetry, HISSA-E-NAZM	CO1	Know about Urdu new and old poets and their poetry of Ghazal.
					CO2	Remember all the basic concepts of Urdu Ghazal.
					CO3	Read, understand and enjoy Urdu poems.
					CO4	To create interest among students in literature.
					CO5	Developing communication skills.
					CO6	Creating awareness in the students about life attitude and environment.
2	2020-21	II	20-URD-2C2	Old and Modern Poetry, HISSA-E NAZM	CO1	Know about the Classical and Modern Poets of Urdu and their poetry.
					CO2	Remember all the basic concepts of Urdu Masnavi.
					CO3	To create interest and awareness about the Indian Heritage and culture.
					CO4	To train the students in speaking, reading and writing skills.
					CO5	To create interest in Poetry Recitation among the students.
					CO6	Developing the Research skills in literature.
3	2020-21	III	20-URD-301	Urdu Prose Fiction, HISSA-E-NAZM	CO1	Know about the Urdu Novel, Drama, Afsana and Dastaan
					CO2	Remember all the basic concepts of Urdu Novel, Drama, Afsana and Dastaan
					CO3	To provide basic and essential knowledge of Urdu Fiction.
					CO4	To train the students in speaking, reading and writing skills.
					CO5	To create interest in Writing own essay in Urdu among the students
7. HISTORY : 2020-2021						
1	2020-21	I	20-HIS-1C1	ANCIENT INDIAN HISTORY & CULTURE (FROM INDUS VALLEY CIVILAZATION TO 12 CENTURY A.D)	CO1	As a History Student will learn about the historiographical trends, interpretation of the historical sources of ancient India as well.
					CO2	Identify and define various kinds of sources and understand how history books are shaped
					CO3	Compare and contrast various stages of progress from IVC to Vedic age and analyze the Jain, Buddhist and Vedic faiths
					CO4	Increase the awareness and appreciation of Transition from Territorial States to Emergence of Empires
					CO5	Analyze the emergence of the Mauryan and Gupta empires during the —classical agel in India
					CO6	valuate the key facets of ancient society, polity and culture in South India—the feudalism, and the rise of technology and commerce
					CO7	Visualize where places are in relation to one another through map pointing
					CO1	Understand the socio, economic and cultural conditions of medieval India

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
2	2020-21	II	20-HIS-2C2	MEDIVIAL INDIAN HISTORY AND CULTURE (FROM 1206 A.D 1764 A.D)	CO2	Describe the advent of Islam in India and study the traces of political and cultural expansion of Turks & Afghans
					CO3	Explain the Administration and art and architecture of Vijayanagar Rulers, Mughals and also analyse the rise of the Marathas and the contribution of Shivaji
					CO4	Evaluate the establishment of the British rule in India and understand the dangerous consequences disunity at all levels
					CO5	Analyze the emergence of composite culture in Indian
					CO6	Visualize where places are in relation to one another through map pointing
3	2020-21	III	20-HIS-301	DODERN INDIAN HISTORY & CULTURE (1764 - 1947 A.D.)	CO1	Unearth the true nature of the British rule and its disastrous impact on Indian economy and society
					CO2	Gauge the disillusionment of people against the Company's rule even during the early 19th century
					CO3	Assess the causes and effects of Reformation movements and also inspire the public to overthrow inequalities of the present day society
					CO4	Rise above petty parochial issues after understanding the sacrificial saga of freedom Struggle
					CO5	Evaluate the undercurrent of communal politics that led to India's partition and identify the enemies of India's integrity and sovereignty
					CO6	Visualize where places are in relation to one another through map pointing
4	2020-21	IV	20-HIS-401	HISTORY & CULTURE OF ANDHRA (FROM 1512 TO 1956 A.D.)	CO1	Interpret social and political and cultural transformation from medieval to modern Andhra
					CO2	Relate key historical developments during medieval period occurring in coastal Andhra and Telangana regions and analyze socio - political and economic changes under QutbShahi rulers
					CO3	Understand gradual change, or change in certain aspects of society in Andhra, rather than rapid or fundamental changes
					CO4	Explain how the English East India Company became the most dominant power and outline the impact of colonial policies on different aspects in Andhra
					CO5	Take pride in the non-violence struggle for Indian Independence and relate the importance of peace in everyday life
					CO6	Visualize where places are in relation to one another through map pointing
5			20-HIS-501	HISTORY OF MODERN WORLD (1453 - 1821 A.D.)	CO1	Demonstrate advanced factual knowledge of world histories, politics, and cultures
					CO2	Assess and appraise the developments in art, literature, and society during the Renaissance and utilize content knowledge of the Reformation and Counter Reformation to make predictions about the evolution of Christianity in Europe and Abroad
					CO3	Evaluate the causes for the Glorious Revolution and American Revolution and identify the background for the evolution of human rights movement

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
6	2020-21	V	20-HIS-502	HISTORY AND CULTURE OF ANDHRA DESA (FROM KAKATIYAS TO 1857 A.D.)	CO4	Understand the main events of the French Revolution and its significance in the shift in European culture from Enlightenment to Romanticism
					CO1	Interpret social and political and cultural transformation from medieval to modern Andhra
					CO2	Relate key historical developments during medieval period occurring in coastal Andhra and Telangana regions and analyze socio - political and economic changes under QutbShahi rulers
					CO3	Understand gradual change, or change in certain aspects of society in Andhra, rather than rapid or fundamental changes
					CO4	Explain how the English East India Company became the most dominant power and outline the impact of colonial policies on different aspects in Andhra
7	2020-21	VI	20-HIS-601	HISTORY OF MODERN WORLD (FROM 19TH CENTURY TO 1945 A.D.)	CO1	The student will be able to analyze the historical developments in Europe.
					CO2	As it focuses on the democratic & socialist foundations of modern Europe
					CO3	They will be able to situate historical developments of socialist upsurge & the economic forces of the wars, other ideological shifts.
					CO4	The course aims to provide an understanding of an era of shifting history from Europe centric to world.
					CO5	It discuss the turbulent times when totalitarianism rose as an alternative to democratic and liberal ideal and also the growing desire for peace through formation of organization such as United Nations.
8.. ECONOMICS : 2020-2021						
1	2020-21	I	20-ECO-1C1	Microeconomic Analysis	CO1	Remembers and states in a systematic way (Knowledge), a. the differences between microeconomic analysis and macroeconomic analysis, b. various laws and principles of microeconomic theory under consumption,
					CO2	Explains (understanding) a. various terms and concepts relating to microeconomic analysis with the help of examples of real life b. consumer's equilibrium and consumer's surplus using indifference curve analysis. c. various laws and principles of consumption, production, and income distribution d. determination of price and output discriminating different market conditions in short term and long term
					CO3	Critically examines using data and figures (analysis and evaluation) a. various laws and principles of microeconomic analysis and market conditions b. application of the concept of demand elasticity and its relation with Average and Marginal Revenue c. the relationship between average and marginal cost/revenue both in long term and
					CO4	Draws critical diagrams and graphs to explain and examine the application of various laws and principles of microeconomic analysis

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
2	2020-21	II	20-ECO-2C2	Macroeconomic Analysis	CO1	Remembers and states in a systematic way (knowledge) Various concepts, definitions, laws and principles of macroeconomic theory with reference to income, employment, money, banking and finance
					CO2	Explains (understanding) a. the difference between various concepts and components of national income with illustrations and methods of measuring national income b. various terms, concepts, laws and principles, theories relating to income, employment, consumption, investment, money, price-level and phases of trade cycles c. functions of commercial banks and central bank, creation and control of credit
					CO3	Critically examines using data and figures (analysis and evaluation) a. in order to understand the interrelationship between various components of national income b. the theories of macroeconomics with reference to their assumptions, implications and applicability c. Empirical evidences of Consumption and Investment Functions and factors influencing them
					CO4	Draws critical formulae, diagrams and graphs. a. consumption and investment functions; concepts of multiplier and accelerator b. price indices, inflation and trade cycles
3	2020-21	III	20-ECO-301	DEVELOPMENT ECONOMICS	CO1	Remembers and states in a systematic way (Knowledge) Various concepts and definitions and indicators relating to economic growth and Development including recent developments
					CO2	Explains (understanding) a. Distinction between growth and development with examples c. Characteristics of developing and developing economies and distinction between the two d. factors contributing to development, Choice of Techniques and a few important models and strategies of growth
					CO3	Critically examines using data and figures (analysis and evaluation) a. the theoretical aspects of a few models and strategies of economic growth b. role and importance of various financial and other institutions in the context of India's economic development
					CO4	Draws critical diagrams and graphs. a. to explain the models and strategies b. to highlight empirical evidences to support the strategies
					CO1	Remembers and states in a systematic way (Knowledge) a. leading issues of Indian economic development with reference to potential for growth, obstacles and policy responses b. Objectives, outlays and achievements of economic plans and growth strategies

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
4	2020-21	IV	20-ECO-401	ECONOMIC DEVELOPMENT-INDIA AND ANDHRA PRADESH	CO2	Explains (understanding) a. Available Resources, demographic issues, general problems of poverty and unemployment and relevant policies b. Sector specific problems, remedial policies and their effectiveness relating to Agriculture and Industrial Sectors of Indian and AP economy and infrastructure issues of AP economy c. Indian Tax system, recent changes, issues of public expenditure and public debt, recent finance commissions and devolution of funds d. Major issues of economic development of Andhra Pradesh after bifurcation and Central assistance
					CO3	Critically examines using data and figures (analysis and evaluation) a. Leading issues of current importance relating to India and AP economy, major policies and programmes b. Covid- 19 and its impact on Indian economy
					CO4	Uses official statistical data and reports including tables and graphs a. To explain the achievements of Indian economy with reference to the objectives of planning and policy and make critical evaluation
5	2020-21	V	20-ECO-501	STATISTICAL METHODS FOR ECONOMICS	CO1	Remembers and states in a systematic way (Knowledge) a. the definitions, terms and their meaning relating to statistical methods b. various formulae used to measure central tendency, correlation regression and Indices
					CO2	Explains (understanding) a. Importance of statistics and its applications b. The method of classification of primary data c. Uses of Correlation and Regression analysis, time series and index numbers in economic analysis
					CO3	Analyses and solves using given data and information (analysis and evaluation) a. different kinds of statistical problems using various principles and formulae relating to central tendency, correlation, regression, time series and indices b. to interpret data and suggest solutions to economic problems
					CO4	Draws critical diagrams and graphs. a. Histogram, Frequency Polygon and Frequency Curve b. More than cumulative and less than cumulative frequency curves (Ogive) c. Different types of Bar diagrams d. Pie Diagram and its uses in economic analysis
9. POLITICAL SCIENCE : 2020-2021						
1	2020-21	I	20-POL-101	INTRODUCTION TO	CO1	Recall the previous knowledge about Political Science and understand the nature and scope, traditional and modern approaches of Political Science.
					CO2	Understand concepts intrinsic to the study of Political Science.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
1	2020-21	I	20-POL-101	POLITICAL SCIENCE	CO3	Have solid theoretical understanding of Rights and its theories along with the basic aspects of certain political ideologies.
					CO4	Apply the knowledge to observe the field level phenomena
2	2020-21	II	20-POL-2C2	BASIC ORGANS OF THE GOVERNMENT	CO1	Understand the Origin and Evolution of the concept of Constitutionalism and classification of Constitutions.
					CO2	Acquaint themselves with different theories of origin of State.
					CO3	Understand and analyses organs and forms of Governments along with a deep insight into the various agents involved in the political process.
					CO4	Apply the knowledge to analyse and evaluate the existing systems
3	2020-21	III	20-POL-301	INDIAN CONSTITUTION	CO1	Acquire knowledge about the historical background of Constitutional development in India, appreciate philosophical foundations and salient features of the Indian Constitution.
					CO2	Understand the emergence and evolution of Indian Constitution
					CO3	Understand the Structure and Composition of Indian Constitution
					CO4	Understand and Analyze federalism in the Indian Context
					CO5	Acquaint themselves with the judicial system of the country and its emerging trends such as judicial reforms.
4	2020-21	IV	20-POL-401	INDIAN POLITICAL PROCESS	CO1	Know and understand the federal system of the country and some of the vital contemporary emerging issues.
					CO2	Evaluate the electoral system of the country and to identify the areas of electoral reforms.
					CO3	Know the constitutional base and functioning of local governments with special emphasis on 73rd & 74th Constitutional Amendment Acts.
					CO4	Understand the dynamics of Indian politics, challenges faced and gain a sensitive comprehension to the contributing factors.
					CO5	Apply the knowledge and critically comprehend the functioning of some of the regulatory and governance institutions.
					CO6	Propose theoretical outline alternate models
5	2020-21	V	20-POL-501	INDIAN POLITICAL THOUGHT	CO1	Know the nature and characteristics of ancient Indian Political Thought
					CO2	Understand the political ideas of Manusmriti, Kautilya's Arthashastra
					CO3	Analyse Renaissance Thought of Rajaram Mohan Roy and Dayananda Swaraswathi
					CO4	Analyse the Impact of early nationalism of Dada Bai Naoroji and Bala gangadhara Thilak
					CO5	Analyse the Social upliftment of Gandhiji, Swaraj, Sathyagraha, Ambedkar and Jyothi Bha Phule
					CO6	Apply the knowledge of democratic Egalitarianism of Jawaharlal Nehru and M. N. Roy
					CO1	Understand the fundamental contours classical, western political philosophy, basic features of medieval political thought and shift from medieval to modern era.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
6			20-POL-502	WESTERN POLITICAL THOUGHT	CO2	Understand the Social Contract Theory and appreciate its implications on the perception of State in terms of its purposes and role.
					CO3	Acquaint with the Liberal and Marxist philosophy and analyze some trends in Western Political Thought.
					CO4	Critically analyse the evolution of western political thought
7	2020-21	VI	20-POL-601	PRINCIPLES OF PUBLIC ADMINISTRATION	CO1	Understand the nature and scope of Public Administration
					CO2	Acquaint with various theories of Administration
					CO3	Distinguish between Public Administration and Private Administration
					CO4	Analyse the role of Chief Executive Officer
					CO5	Know the various Principles of Organization
					CO6	Apply various administrative theories in understanding human life and management.
8	2020-21	VI	20-POL-602	INTERNATIONAL RELATIONS	CO1	Understand the nature and scope of International Relations
					CO2	Distinguish between Idealism and Realism
					CO3	Know the impact of world wars
					CO4	Acquaint with various phases of international relations
					CO5	Analyse the structure and functions of UNO
					CO6	Apply the knowledge in understanding the problems of III world countries
9	2020-21	VI	20-POL-603	INDIAN FOREIGN POLICY	CO1	Understand the basic determinants of Indian Foreign Policy
					CO2	Acquaint with the aims and objectives of Indian Foreign Policy
					CO3	Know the relationship between India and big powers
					CO4	Understand the neighborhood policy of India
					CO5	Analyse the change and continuity in Indian Foreign Policy
					CO6	Apply the Knowledge in analyse the Foreign policy choices of India
10	2020-21	VI	20-POL-604	CONTEMPORARY GLOBAL ISSUES	CO1	Understand the issue of Globalization, Liberalization and Privatization
					CO2	Distinguish between Globalization, Liberalization and Privatization
					CO3	Know the functions of World Bank and IMF
					CO4	Analyse the impact of Environmental degradation on the world
					CO5	Analyse the impact of terrorism and methods to contain it
					CO6	Apply the knowledge in understanding various global issues
10. SPECIAL TELUGU: 2020-2021						
4	2020-21	SPECIAL TELUGU- SEM-I	20-SPT-1C1	CLASSICAL AND MODERN POETRY AND DRAMA	CO1	శ్రీనాధుని కవితా విశిష్టత మరియు అర్చునుని శివభక్తి తత్పరత వివరిస్తుంది.
					CO2	పురుష భావజాలం పై స్త్రీవాద పోరాటం వివరిస్తుంది.
					CO3	దళిత వాద స్పృహను బోధిస్తుంది.
					CO4	గురజాడ అప్పారావు నాటక రచనా విశిష్టతను వివరిస్తుంది.
					CO5	కన్యాశుల్కం వల్ల కలిగిన స్త్రీల దుర్భర జీవన విధానాన్ని వివరిస్తుంది.
5		SPECIAL	20-SPT-2C2	OLD POETRY AND INTRODUCTION CLASSICAL TELUGU LITERATURE	CO1	వేమన బిడ్డించిన లోకరీతులను అవగాహన చేసుకుంటారు.
					CO2	సుభాషిత రత్నాల శతక నీతులను అవగాహన చేసుకుంటారు.
					CO3	శతకం, ద్విపద పురాణం ఇతిహాసం ప్రక్రియలను అవగాహన చేసుకుంటారు.
					CO4	తెలుగు సాహిత్య చరిత్రను అవగాహన చేసుకుంటారు.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
6	2020-21	TELUGU-SEM-II AND III	20-SPT-301	HISTORY OF CLASSICAL TELUGU LITERATURE	CO5	ఆంధ్రము తెలుగు తెనుగు పర్యాయ పదాలను అవగాహన చేసుకుంటారు.
					CO1	నన్నయ శివకావుల సాహిత్యాలను అవగాహన చేసుకుంటారు.
					CO2	తిక్కన మహాభారత రచనా విధానాన్ని అవగాహన చేసుకుంటారు.
					CO3	శ్రీనాథ కవితా విశిష్టతను అవగాహన చేసుకుంటారు.
					CO4	ప్రబంధ యుగ సాహిత్యాన్ని అవగాహన చేసుకుంటారు.
CO5	అన్నమయ్య పద సాహిత్యాన్ని					
7	2020-21	VI	20-SPT-401	HISTORY OF MODERN TELUGU LITERATURE	CO1	ఖండకావ్యం కథానిక వంటి ఆధునిక ప్రక్రియల పై అవగాహన కలుగుతుంది.
					CO2	గురజాడ దేవులపల్లి వంటి ఆధునిక సాహిత్యవేత్తల పరిచయం
					CO3	నవల సాహిత్యం దాని విశిష్టతలు అవగాహన చేసుకుంటారు.
					CO4	ఆధునిక నాటక సాహిత్యాన్ని అవగాహన చేసుకుంటారు.
					CO5	కథా సాహిత్యాన్ని అవగాహన చేసుకుంటారు.
11. COMPUTER APPLICATIONS: 2020-2021						
1	2020-21	I	20-CAP-1C1	INFORMATION TECHNOLOGY	CO1	Apply standard statistical inference procedures to draw conclusions from data
					CO2	Understand the difference between an operating system and an application program, and what each is used for in a computer
					CO3	Analyse compression techniques and file formats to determine effective ways of securing, managing, and transferring data
					CO4	Identify and analyse computer hardware, software
					CO5	Design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
					CO6	Efficiently learn and use Microsoft Office applications.
2	2020-21	II	20-CAP-2C2	E - COMMERCE & WEB DESIGNING	CO1	Understand the foundations and importance of E-COMmerce
					CO2	Understand the principles of creating an effective web page, including an in-depth consideration of information architecture
					CO3	Exploring a web development framework as an implementation example and create dynamically generated web site complete with user accounts, page level security, modular design using css
					CO4	Build a site based on the design decisions and progressively incorporate tools and techniques covered
					CO5	Describe the infrastructure for E-COMmerce
					CO6	Discuss legal issues and privacy in E-COMmerce
3	2020-21	III	20-CAP-301	PROGRAMMING WITH C & C++	CO1	Understanding a functional hierarchical code organization
					CO2	Choose the right data representation formats based on the requirements of the problem
					CO3	Evaluate comparisons and limitations of the various programming constructs and choose correct one for the task in hand
					CO4	learn the syntax and semantics of programming language
					CO5	Planning of structure and content, writing, updating and modifying computer programs for user solutions

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
4	2020-21	IV	20-CAP-401	OBJECT ORIENTED PROGRAMMING WITH C++	CO6	Understanding a concept of object thinking within the framework of functional model
					CO1	Understand how to apply the major object-oriented concepts to implement object oriented programs in C++
					CO2	Exercise method overloading to provide behaviour based on input parameters
					CO3	Write constructors and destructors for memory allocation and cleanup
					CO4	Exercise different types of inheritance to solve various problems
					CO5	Develop familiarity in C++ streams and manipulating data in Files.
5	2020-21	V	20-CAP-501	DATABASE MANAGEMENT SYSTEM	CO1	Describe the fundamental elements of database management systems
					CO2	Explain the basic concepts of datamodels and SQL
					CO3	Design ER Models to represent simple database application scenarios
					CO4	Convert the ER-Model to relational tables, populate relational database and formulate SQL queries on data
					CO5	Improve the database design by normalization
					CO6	Familiar with basic database storage structures and access techniques
6	2020-21	V	20-CAP-502	WEB TECHNOLOGIES	CO1	Develop the thinking patterns required to adapt to the fast evolution of the web technologies
					CO2	Introduce the basics of Client-Side and server-side technologies
					CO3	Examine the basics of web servers and websites
					CO4	Scrutinize the internet technologies involved in web application development
					CO5	To describe and evaluate the mechanisms behind dynamic websites
					CO6	Apply these skills to any of the major Web development frameworks in use in the industry today
7	2020-21	VI	20-CAP-601	E - COMMERCE APPLICATIONS	CO1	Demonstrate knowledge on the basic concepts and technologies used in the field of E-COMmerce
					CO2	Describe knowledge on Internet applications
					CO3	Discuss Mobile Commerce applications
					CO4	Follow Ethics in the usage of E-COMmerce
					CO5	Understand and use electronic payment systems
8	2020-21	VI	20-CAP-602	TALLY	CO1	Develop effective Communication in Cost control and Financial Management
					CO2	Acquire knowledge in Elements of Accounting in Computerized Software
					CO3	Develop skills in Material, Labor, Overheads control
					CO4	Provide solutions for effective investment decisions.
9	2020-21	VI	20-CAP-603	PROJECT	CO1	Develop plans with relevant people to achieve the project goals
					CO2	Identify lines and dependencies and schedules to achieve deliverable
					CO3	Estimate & cost the human & physical resources required
					CO4	To make plans to obtain the necessary resources
					CO5	Apply fundamentals and disciplinary concepts & methods in ways appropriate to their principal areas of study.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
1		I	20-COM-ICA	Fundamental of Accounting	CO1	Identify the transactions and events that need to be recorded in the books of accounts.
					CO2	Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
					CO3	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
					CO4	Analyze the difference between cash book and pass book in terms of balance and make reconciliation.
					CO5	Critically examine the balance sheets of a sole trader for different accounting periods.
			20-COM-ICB	Business Organisation and Management	CO1	Understand different forms of business organizations.
					CO2	Comprehend the nature of Joint Stock Company and formalities to promote a Company.
					CO3	Design and plan to register a business firm. Prepare different documents to register a company at his own. Articulate new models of business organizations
					CO4	To learn about Management Principles
					CO5	To examine the types of planning and organisation process.
			20-COM-ICC	Business Environment	CO1	Understand the concept of business environment.
					CO2	Define Internal and External elements affecting business environment
					CO3	Explain the economic trends and its effect on Government policies.
					CO4	Critically examine the recent developments in economic and business policies of the Government.
					CO5	Evaluate and judge the best business policies in Indian business environment.
2		II	20-COM-2CA	Financial Accounting	CO1	Enumerate a theoretical foundation for the recording of financial transactions concerning specialized area related to Depreciation.
					CO2	Define foundation for the preparation of financial statements from incomplete records, provision and reserves
					CO3	Explain the accounting procedure for negotiable instrument act 1881. Bills of exchange
					CO4	Prepare the accounting process and preparation of accounts in consignment.
					CO5	Demonstrate the ability to use accounting information to solve the different business problems in joint venture
			20-COM-2CB	Business Economics	CO1	State the nature of economics in dealing with the issues of scarcity of resources.
					CO2	Estimate the supply and demand analysis and its impact on consumer behaviour.
					CO3	Summarize the factors, regarding production and costs affecting firm's behaviour.
					CO4	Determine the economic analysis to evaluate controversial issues and policies of market structures
					CO5	Use economic models for managerial problems, identify their relationships, to improve National Income
				Banking Theory &	CO1	State the nature of economics in dealing with the issues of scarcity of resources.
					CO2	Estimate the supply and demand analysis and its impact on consumer behaviour.
					CO3	Summarize the factors, regarding production and costs affecting firm's behaviour.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
			20-COM-2CC	Banking Theory & Practice	CO4	Determine the economic analysis to evaluate controversial issues and policies of market structures
					CO5	Use economic models for managerial problems, identify their relationships, to improve National Income
3		III	20-COM-301	Advanced Accounting	CO1	Understand the concept of Non-profit organizations and its accounting process
					CO2	Comprehend the concept of single-entry system and preparation of statement of affairs
					CO3	Familiarize with the legal formalities at the time of dissolution of the firm
					CO4	Prepare financial statements for Electricity supply Companies
					CO5	To Examine the banking Accounts in various times.
			20-COM-302	Business Statistics	CO1	Understand the importance of Statistics in real life
					CO2	Formulate complete, concise, and correct mathematical proofs.
					CO3	Frame problems using multiple mathematical and statistical tools, measuring relationships by using standard techniques.
					CO4	Build and assess data-based models. Learn and apply the statistical tools in day life.
					CO5	Create quantitative models to solve real world problems in appropriate contexts.
			20-COM-303	Marketing	CO1	Develop an idea about marketing and marketing environment.
					CO2	Understand the consumer behavior and market segmentation process.
					CO3	Comprehend the product life cycle and product line decisions.
					CO4	know the process of packaging and labeling to attract the customers.
					CO5	Formulate new marketing strategies for a specific new product.
4	2020-21	IV	20-COM-401	Accounting for Service Organisations	CO1	State the analysis of complex issues, formulation of well-reasoned arguments and reaching better conclusions for Non-Trading Organizations
					CO2	Identify the accounting policies with reference to relevant ability to prepare electricity company accounts
					CO3	Summarize the preparation of banking accounts with regard to banking regulations
					CO4	Prepare Revenue Account, P&L Account, Balance sheet of Life Insurance Companies
					CO5	Differentiate between Private Insurance Companies and Public Insurance Companies regarding Salvage value & Claims
			20-COM-402	Business Laws	CO1	State the Indian Contract Act, 1872, Essential elements
					CO2	Explain the Offer, Acceptance and Consideration
					CO3	Define Minor and Contingent Contracts
					CO4	Make the salient features of Indemnity and Bailment contracts
					CO5	Distinguish between Cyber Law and General Law
			20-COM-403	Income Tax	CO1	Write the complete knowledge of the tax evasion, tax avoidance and tax planning.
					CO2	Define the Allowances, prerequisites and profits in lieu of salary
					CO3	Discuss the Income from House Property, deductions from Annual Value.
					CO4	Compute Income from Capital Gains and Income from other sources
					CO5	Analyze the Section 80 of Income Tax Act with source of deductions
					CO1	Understand various costing methods and management techniques.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
5		V	20-COM-501	Cost Accounting	CO2	Prepare cost sheet, quotations, and tenders to organization for different works.
					CO3	Apply Cost and Management accounting methods for both manufacturing and service industry.
					CO4	Aware the different types of remuneration systems and incentives in industry.
					CO5	Compare and contrast the financial statements of firms and interpret the results.
			20-COM-502	Goods and Service Tax-Fundamentals	CO1	Understand the basic principles underlying the Indirect Taxation Statutes.
					CO2	Identify and analyze the procedural aspects under different applicable statutes related to GST.
					CO3	Compute the assessable value of transactions related to goods and services for levy and determination of duty liability.
					CO4	Develop various GST Returns and IGST Returns for business transactions.
					CO5	Examine the method of tax credit. Input and Output Tax credit and Cross Utilization of Input Tax Credit.
			20-COM-503	Advanced Corporate Accounting	CO1	Understand the basic theme of Accounting standards and disclosure of accounting policies.
					CO2	Provide knowledge about amalgamation of company with various methods.
					CO3	Aware internal reconstruction of Companies.
					CO4	Analyze the procedure for preparation of liquidator's statement of account.
					CO5	Know the difference between Human Resource Accounting system and Social Responsibility Accounting procedure
			20-COM-504	Project Management	CO1	Provide Basic understanding about Project Management among students
					CO2	Analyze the Project Planning and Control with CPM , PERT
					CO3	Examine project execution control and close out with Project Termination System
					CO4	Describe the Project Performance measurement evaluation and Challenges regarding Research.
					CO5	Aware the various Risk Management Factors steps to be taken by the Management with positive growth.
			20-COM-505	Central Banking	CO1	Provide Basic Understanding Central Banking among students
					CO2	Aware the banking procedure with constitution and governance among students as per RBI Act.
					CO3	Describe the Monetary and Credit policies.
					CO4	Analyze the Inflation and Price Control by RBI by using different controlling measures.
					CO5	Know the Regulations and Supervision of Banking system with basic and prudential norms.
			20-COM-506	Rural and Farm Credit	CO1	Provide Basic Understanding Rural And Form Credit among students
CO2	Aware the Rural credit agencies for Financing agriculture and rural development with SHGs.					
CO3	Give knowledge on kisaan credit cards scheme.					
CO4	Awareness on different central government form credit programmes.					
CO5	Analyse the 3 R's and 3 C's and Rural Credit Survey Reports.					

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
6		VI	20-COM-601	Advanced Cost Accounting	CO1	State the preparation of Process accounts with Normal loss and Abnormal loss and Gain
					CO2	Describe the various types of operating costing
					CO3	Explain about the Standard costing, regarding Material Cost, Price, Quantity mix variances
					CO4	Prepare the Budgets problems on the fixed and flexible budget
					CO5	Outline steps involved in Ideal System in Activity Based Costing
			20-COM-602	Auditing	CO1	Write the meaning of Auditing, Role of Auditor and Types of Audit
					CO2	Define Audit Programme Internal check, Internal Audit and internal Control
					CO3	Discuss about Investigation and Vouching, Auditing Vs Investigation
					CO4	Determine the Rights, Duties, Liabilities and Disqualifications of an Auditor
					CO5	Differentiate between Bank, Insurance, Co-operatives and Educational institutions Audit procedure
			20-COM-603	Management Accounting	CO1	State the Application of management Accounting and different tools in business
					CO2	Explain Inter firm and Inter period Comparison of financial Statements
					CO3	Describe the Preparation of Funds flow statement in different periods
					CO4	Apply the Cash flow Statement in different periods
					CO5	Analyze the Preparation of Capital Budgeting
			20-COM-604	Financial Services	CO1	Identify the Obtaining knowledge about the functions and benefits of financial services.
					CO2	Discuss the Scope and Importance of Merchant Banking Services
					CO3	Explain the Leasing and Hire Purchase, Securitization of Debts, Housing Finance
					CO4	Determine the credit rating, types, symbols and agencies
					CO5	Distinguish Factoring and Forfeiting, procedural and financial aspects
20-COM-605	Marketing of Financial services	CO1	State the integrated service management and service elements			
		CO2	Identify the service advantage, service quality and productivity			
		CO3	Explain the pricing strategies, promotion strategies, B2B Marketing and marketing planning			
		CO4	Demonstrate the cost and revenue management, designing and managing the service processes			
		CO5	Differentiate between Investment Services and Insurance Services with supporting marketing practices in selected financial service firms			
13. B.COM(BANKING AND INSURANCE 2020 - 2021)						
1	2020-21	I	20-BAI-ICA	Fundamental of Accounting	CO1	Identify transactions and events that need to be recorded in the books of accounts.
					CO2	Equip with the knowledge of accounting process and preparation of final accounts of sole trader.
					CO3	Develop the skill of recording financial transactions and preparation of reports in accordance with GAAP.
					CO4	Analyze the difference between cash book and pass book in terms of balance and make reconciliation.
					CO5	Critically examine the balance sheets of a sole trader for different accounting periods.
		CO1	Provide basic understanding about banking activities among students.			

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
	2020-21	I	20-BAI-1CB	Principles of Banking-I	CO2	Understand the various banking functions in modern scenario
					CO3	Determine the Various functions of associated with banking System.
					CO4	Analyze negotiable instrument act related to banking sector.
					CO5	Examine the support services regarding marketing products and its services.
					CO1	Understand the concepts of insurance and its evaluation
	2020-21	I	20-BAI-1CC	Principles of Insurance-I	CO2	Providing basic knowledge about different types of life insurance.
					CO3	Aware the importance and different types of general insurance
					CO4	Determine the insurance terminologies in IRDA Act
					CO5	Awareness towards various insurance policies and its benefits.
					CO1	Identify the Tally screen, key board Conventions
2	2020-21	II	20-BAI-2CA	Computerised Accounting	CO2	Explain how to Create Company
					CO3	Prepare charts of Accounts and Altering
					CO4	Compare the Stock details and Stock groups
					CO5	Outline the different Vouchers.
					CO1	The list of the course is to acquaint student with principles of the financial theory, traditional and modern financial system.
	2020-21	II	20-BAI-2CB	Principles of Banking-II	CO2	Explain the financial intermediaries and the ways of their functioning in the modern financial markets.
					CO3	Define credit appraisal , credit monitoring, documentation, debt collection and role of technology in banking
					CO4	Determine the Various functions of associated with banking System.
					CO5	Correlate the Practice and procedure relating to deposit, credit monitoring and credit control.
					CO1	Write the concepts of insurance and its evaluation
	2020-21	II	20-BAI-2CC	Principles of Insurance-II	CO2	Describe the business operations and market conditions in insurance companies
					CO3	Explain the different needs of customers on insurance product
					CO4	Determine the insurance terminologies in IRDA Act
					CO5	Investigate the various Insurance policies in India
					14. CHEMISTRY: 2020-2021	
1	2020-21	I	20-CHE-1C1	INORGANIC & PHYSICAL CHEMISTRY	CO1	Write the preparation, properties, structures and applications of different compounds of the p block elements
					CO2	Understand the general characteristics of d-block and f-block elements
					CO3	Describe different theories of bonding in metals
					CO4	Explain different types of crystal systems
					CO5	Derive Bragg's law
					CO6	Discuss the colligative properties
					CO1	Identify the hard and soft acids and bases according to Pearson concept.
					CO2	Understand and explain the differential behaviour of organic compounds based on fundamental concepts learnt.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
2	2020-21	II	20-CHE-2C2	ORGANIC & GENERAL CHEMISTRY	CO3	Establish the mechanism of organic reactions by recalling and correlating the fundamental properties of the reactants involved.
					CO4	Correlate the many organic reaction mechanisms including free radical Substitution, electrophilic addition and electrophilic aromatic substitution.
					CO5	Access the stereochemical properties of organic compounds and reactions
					CO6	Develop the stereo isomers of different organic compounds
3	2020-21	III	20-CHE-301	INORGANIC & ORGANIC CHEMISTRY	CO1	Study the d-block elements, their electronic configuration, complex formation ability, catalytic and magnetic properties and different theories of bonding in metals and conductors, semiconductors and insulators
					CO2	Understand the concept of EAN rule and shapes of different metal carbonyls and nitrosyls, properties of f-block elements, lanthanide contraction- its causes and consequences, actinide contraction, differences between lanthanides and actinides
					CO3	Study the preparation reactions of Halogen compounds and kinetics, mechanism and stereochemistry of SN1 and SN2 reactions.
					CO4	Study the hydroxyl compounds (alcohols and phenols), their preparations and chemical properties and identification by Luca's reagent.
					CO5	Prepare carbonyl compounds and study their chemical properties (nucleophilic addition of different reagents, base catalysed reactions, Oxidation and reduction reactions of carbonyl compounds.
					CO6	Prepare and study chemical properties of both aliphatic and aromatic carboxylic acids and degradation, decarboxylation and halogenations of aliphatic carboxylic acids.
4	2020-21	IV	20-CHE-401	SPECTROSCOPY & PHYSICAL CHEMISTRY	CO1	State physical chemistry laws of dilute solutions, phase rule and electrochemistry
					CO2	Explain the IR and proton NMR spectral data of organic compounds
					CO3	Discuss the concept of spectra in chemical characterization
					CO4	Apply phase rule to various systems
					CO5	Apply the concept of phase rule, colligative properties and electro-chemistry in daily life/industries
					CO6	Analyze the organic compounds based on IR and NMR spectroscopy
5	2020-21	V	20-CHE-501	INORGANIC, PHYSICAL & ORGANIC CHEMISTRY	CO1	Define different thermodynamic properties and state laws of thermodynamics
					CO2	Explain different theories of bonding, isomerism and stability of metal complexes
					CO3	Write the types of nitrogen compounds
					CO4	Differentiate types of amines .
					CO5	Prepare different types of amines and nitroalkanes
					CO6	Compare the basic strength of various types of amines.
					CO1	Explain the labile and inert complexes, SN1 and SN2 substitution reactions of square planar complexes, trans effect and its applications.
					CO2	Understand the biological significance of essential elements, and functions of haemoglobin & chlorophyll, chlorophyll role in photosynthesis, carbonic anhydrase and its function.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
6	2020-21	V	20-CHE-502	INORGANIC, ORGANIC & PHYSICAL CHEMISTRY	CO3	Understand the rate of reaction, factors influencing the rate of reaction, definition of order and molecularity, derivation of rate constants and time half change of first, second and zero order reactions, Arrhenius equation and concept of activation energy.
					CO4	State the laws of photochemistry, Quantum yield, photochemical reaction mechanism, Jablonski diagram, fluorescence, phosphorescence and photosensitized reactions.
					CO5	Explain the definition, preparation and properties of simple five membered heterocyclic compounds i.e. Furan, Thiophene & Pyrrole and structure, Basicity, aromaticity, preparation, properties of pyridine.
					CO6	Know the structures of glucose and fructose and interconversion of monosaccharides.
					CO7	Explain the definition, classification, synthesis, physical and chemical properties of amino acids, structure and nomenclature of peptides and proteins.
7	2020-21	VI	20-CHE-601	ANALYTICAL METHODS IN CHEMISTRY	CO1	Explain the types of errors occur in chemical experiments
					CO2	Explain the classification of chromatography methods
					CO3	Discuss the separation techniques for separation of compounds in chemical analysis
					CO4	Able to use acid-base titrations, redox titrations and complexometric titrations in volumetric analysis
					CO5	Able to use precipitation, coagulation, peptization, filtration, drying and ignition in gravimetric analysis
					CO6	Compare the development of chromatogram in between the Paper chromatography and Thin layer chromatography.
8			20-CHE-602	POLYMER CHEMISTRY	CO1	List out the types of polymers based on their origin
					CO2	Explain different techniques of polymerisation
					CO3	Know the applications of polymers in the various aspects
					CO4	Distinguish different polymer additives with respect to their uses
					CO5	Access the molecular weights of polymers
					CO6	Design the kinetics of free radical polymerisation
9	20-CHE-603	INSTRUMENTAL METHODS OF ANALYSIS	CO1	Identify the different types of errors occur in chemical experiments		
			CO2	Explain the principle and instrumentation and interpretation of IR spectrum		
			CO3	Describe single beam and double beam spectrophotometer		
			CO4	Determine the how a gaseous molecule is converted into ion based on chemical ionization		
			CO5	Apply the basic principle and instrumentation of NMR spectroscopy		
			CO6	Analyze the separation of ions separation of ions based on mass to charge ratio and electric quadrupole		
10	20-CHE-604	ANALYSIS OF DRUGS, FOODS, DAIRY PRODUCTS & BIO-CHEMICAL ANALYSIS	CO1	Write the molecular formula and structures of drugs (aspirin, paracetamol, Chloroquine etc.).		
			CO2	Define the food materials with examples.		
			CO3	Explain the composition of blood and blood gas analyzer.		
			CO4	Determine the fat, total solids, total nitrogen and acidity in milk.		
			CO5	Estimate the blood cholesterol, glucose, enzymes in milk.		

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
					CO6	Analyze the metronidazole, Furosemide, penicillin, etc. drugs.
15. COMPUTER SCIENCE: 2020-2021						
1	2020-21	I	20-CSC-1C1	PROBLEM SOLVING IN C	CO1	Understand the evolution and functionality of a Digital Computer.
					CO2	Apply logical skills to analyse a given problem
					CO3	Develop an algorithm for solving a given problem.
					CO4	Understand 'C' language constructs like Iterative statements, Array processing, Pointers, etc.
					CO5	Apply 'C' language constructs to solve real time problems.
2	2020-21	II	20-CSC-2C2	DATA STRUCTURES USING C	CO1	Understand available Data Structures for data storage and processing.
					CO2	Comprehend Data Structure and their real-time applications - Stack, Queue, Linked List, Trees and Graph
					CO3	Choose a suitable Data Structures for an application
					CO4	Develop ability to implement different Sorting and Search methods
					CO5	Design and develop programs using various data structures
					CO6	Implement the applications of algorithms for sorting, pattern matching etc
3	2020-21	III	20-CSC-301	OBJECT ORIENTED PROGRAMMING IN JAVA	CO1	Understand the concept and underlying principles of Object-Oriented Programming
					CO2	Understand how object-oriented concepts are incorporated into the Java programming language
					CO3	Develop problem-solving and programming skills using OOP concept
					CO4	Develop the ability to solve real-world problems through multi-threaded programming using Java
					CO5	Become familiar with creating packages and working with files in Java.
4	2020-21	IV	20-CSC-401	DATA STRUCTURES	CO1	Describe how arrays, linked structures, stacks, queues, trees, and graphs are represented in memory and used by algorithms
					CO2	Describe common applications for arrays, linked structures, stacks, queues, trees, and graphs.
					CO3	Write programs that use arrays, records, linked structures, stacks, queues, trees, and graphs
					CO4	Demonstrate different methods for traversing trees
					CO5	Compare and contrast the benefits of dynamic and static data structures implementations
					CO6	Discuss the computational efficiency of the principal algorithms for sorting and searching.
5	2020-21	V	20-CSC-501	DATA BASE MANAGEMENT SYSTEMS	CO1	Identify the features of the DBMS that will meet the organizational needs
					CO2	Design a database efficiently
					CO3	Familiarize on ER and EER Models
					CO4	Write queries using SQL Statements
					CO5	Recognize the importance of normal forms
6	2020-21	V	20-CSC-502	SOFTWARE ENGINEERING	CO1	Ability to gather and specify requirements of the software projects.
					CO2	Ability to analyze software requirements with existing tools
					CO3	Able to differentiate different testing methodologies
					CO4	Able to understand and apply the basic project management practices in real life projects

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
7	2020-21	VI	20-CSC-601	Web Technologies	CO5	Ability to work in a team as well as independently on software projects
					CO1	Describe the structure of HTML document.
					CO2	Select the suitable formatting tags and lists to display data in a webpage
					CO3	Design interactive web pages using HTML and Style sheets.
					CO4	Categorize mathematical and string handling functions
8	2020-21	VI	20-CSC-601A	PHP & MYSQL, WORDPRESS	CO1	Describe and interpret the basics of web designing with PHP
					CO2	Apply In-Built and Create User defined functions in PHP programming
					CO3	Describe the importance of form validation before storing data in Database
					CO4	Outline the principles behind using MySQL as a backend DBMS with PHP
					CO5	Create dynamic Website using PHP, MySQL database
9	2020-21	VI	20-CSC-601B	Advanced Java Script: JQUERY/AJAX / JSON / Angular JS	CO1	Describe and interpret the basics of web designing with jQuery
					CO2	Apply jQuery selectors and jQuery UI to web pages.
					CO3	Describe the importance of jQuery, AJAX, JSON, AnularJS.
					CO4	Use and perform jQuery event handling to design a website.
					CO5	Create dynamic Website.
16. ELECTRONICS: 2020-2021						
1	2020-21	I	20-ELE-1C1	CIRCUIT THEORY AND ELECTRONIC DEVICES	CO1	Remember P-N junction Diode, Depletion region, Barrier Potential, Working in Forward and Reverse bias condition, V-I characteristics of Zener diode.
					CO2	Understand Junction capacitance, Diode current equation, Effect of temperature on reverse saturation current, V-I characteristics of varactor diode and tunnel diode.
					CO3	Understand about Transistor as a switch, types of BJT Biasing and Bias Stabilization.
					CO4	Apply UJT as a Relaxation oscillator and SCR for power control.
					CO5	Apply Light-Emitting Diodes (LEDs), IR Emitters, Photo diode, Photo transistors, LDR, and Opto-Isolators in electronic circuits.
					CO6	Analyze types of rectifiers, Regulation, Types of filters, Principle and working of SMPS (switch mode power supplies).
2	2020-21	II	20-ELE-2C2	DIGITAL ELECTRONICS	CO1	Develop a digital logic and apply it to solve real life problems.
					CO2	Analyze, design and implement combinational logic circuits.
					CO3	Classify different semiconductor memories.
					CO4	Analyze, design and implement sequential logic circuits.
					CO5	Simulate and implement combinational and sequential logic circuits using VHDL
					CO6	Real time analysis of digital Ics
3	2020-21	III	20-ELE-301	ANALOG CIRCUITS AND COMMUNICATIONS	CO1	To understand the working of op-amp in different applications
					CO2	To apply the op-amp as adder, subtractor and in different combinations
					CO3	to find general charectorstic of op-amp
					CO4	examine phenomina of modulation and distinction between amplitude modulation and frequency modulation

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
					CO5	To appreciate the formulation of the problem of op-amp and their frequency oscillations in simple mechanical systems
4	2020-21	IV	20-ELE-401	ANALOG AND DIGITAL IC-APPLICATIONS	CO1	Remember basic op-amp, inverting, non-inverting, adder, sub tractors, summing amplifier, voltage follower, voltage to current convertor, integrator, differentiator, differential amplifier, Logarithmic amplifier.
					CO2	Understand voltage regulator, comparator, zero cross detecting circuit, instrumentational amplifier, and different types of multivibrators.
					CO3	Understand Schmitt trigger, sine wave generator, square wave generator, triangular wave generator, Low pass, High Pass, Band pass filters.
					CO4	Apply BCD to Seven Segment, BCD to Gray, Grey to Binary codes convertors,
					CO5	Asynchronous & Synchronous counters, Binary Up/down Counter and Universal Shift Register.
					CO6	Apply D/A Converter, A/D Converter, Single slope and dual Slope converter.
17. HORTICULTURE						
1	2020-21	I	20-HOR-2C1	Fundamentals of Horticulture and Soil Science	CO1	Understand the scope and potential of horticulture products in India and Andhra Pradesh
					CO2	Study of importance of horticulture, division of horticulture, classification of Horticultural Plants
					CO3	Classify the horticulture plants based on soil and climate.
					CO4	Illustration of different systems of planting in an orchard and predict the number of plants in a given land
					CO5	Demonstrate the methods and types of training and pruning
					CO6	Explain the basics of soil science, integrated nutrient management and demonstrate the skills of Soil Testing
2	2020-21	II	20-HOR-2C2	Plant Propagation and Nursery Management	CO1	Explain sexual and asexual propagation methods of plants.
					CO2	Demonstrate skills on vegetative propagation of plants.
					CO3	Demonstrate the techniques on raising of different types of nursery beds
					CO4	Justify the role of various propagation structures used to raise horticulture plants.
					CO5	Understand the regulation to establish plant nursery and quality parameters to be maintained
					CO6	Implement different routine/ regular activities in a nursery
3	2020-21	III	20--HOR-301	Olericulture	CO1	Explain sexual and asexual propagation methods of plants.
					CO2	Demonstrate skills on vegetative propagation of plants.
					CO3	Demonstrate the techniques on raising of different types of nursery beds
					CO4	Justify the role of various propagation structures used to raise horticulture plants.
					CO5	Understand the regulation to establish plant nursery and quality parameters to be maintained
					CO6	Implement different routine/ regular activities in a nursery
					CO1	Realize the value of fruits in terms of human nutrition and economy of nation.
					CO2	Explain the potential fruit zones in various states of our country.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
4	2020-21	IV	20-HOR-401	Basics of Fruit Science (Pomology)	CO3	Classify the fruiting plants based on temperature requirements.
					CO4	Acquire knowledge related to various cultivation practices for different fruit crops
					CO5	Demonstrate the special intercultural operations done in fruit crops
					CO6	Comprehend the knowledge on varieties of different fruit crops.
19. MATHEMATICS: 2020-2021						
1	2020-21	I	20-MAT-1C1	DIFFERENTIAL EQUATIONS	CO1	Solve linear differential equations and higher order differential equations
					CO2	Convert non exact homogeneous equations to exact differential equations by using integrating factors.
					CO3	Know the methods of finding solutions of differential equations of the first order but not of the first degree.
					CO4	Solve higher-order linear differential equations, both homogeneous and non homogeneous, with constant coefficients.
					CO5	Understand the concept and apply appropriate methods for solving differential equations.
					CO6	Distinguish between first order and second order differential equations
2	2020-21	II	20-MAT-2C2	SOLID GEOMETRY	CO1	Learn about concepts and equations of Plane, Straight line, Sphere, Cone and Cylinder.
					CO2	Define the concepts of Plane, Straight line, Sphere, Cone and Cylinder.
					CO3	Explain the equations of Plane, Straight line, Sphere, Cone and Cylinder
					CO4	Determine the equations of Plane, Straight line, Sphere, Cone and Cylinder with the given data.
					CO5	Use the knowledge of equations of Plane, Straight line, Sphere, Cone and Cylinder in real world problems.
					CO6	Distinguish between 2Dimensional objects and 3Dimensional objects .
3	2020-21	III	20-MAT-301	REAL ANALYSIS AND ITS APPLICATIONS	CO1	Get clear idea about the real numbers, real valued functions, continuity, differential, Reimann Integration and application
					CO2	Understand the real analysis concepts geometrically
					CO3	Analyze the difference between continuity, uniform continuity, differentiation, Reimann Integration and applications.
					CO4	Test the continuity, uniform continuity differentiability and Riemann integration of a function.
					CO5	Apply the above knowledge in the real life situations.
					CO6	Distinguish between continuity and discontinuity
4	2020-21	IV	20-MAT-401	ABSTRACT ALGEBRA	CO1	Identify algebraic structures with their corresponding binary operations
					CO2	Generalize the concept of groups to subgroups, normal subgroups ,Quotient group.Cyclic group and permutation groups.
					CO3	Explain the significance of the notions of Homomorphism,Isomorphism and Automorphism
					CO4	Apply the concepts of groups while solving the problems
					CO5	Compare subgroups, normal subgroups and Quotient group.
					CO6	Analyze and distinguish types of homomorphism

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
5	2020-21	V	20-MAT-501	RING THEORY AND VECTOR CALCULUS	CO1	Knowledge regarding to Rings, Fields, Integral domains, Vector Differentiation and integration
					CO2	Understand the concepts Gradient Curl Divergence, line integral, surface integral and volume integral.
					CO3	Discuss Green's Theorem and Divergence Theorem.
					CO4	Apply Gauss divergence theorem, stoke's theorem, Green's theorem whenever it is necessary.
					CO5	Compare Ring and Division Ring
					CO6	Analyze and distinguish types of rings.
6	2020-21	V	20-MAT-502	LAPLACE TRANSFORM	CO1	Know about the Laplace transform ,Inverse Laplace transform and its properties.
					CO2	Understand the concepts of First shifting theorem, Second shifting theorem and change of scale property.
					CO3	Discuss Bessel function and Fundamental theorem for periodic functions.
					CO4	Apply the knowledge of Multiplication by t and Division by t, while solving the problems
					CO5	Use the Convolution Theorem and Heaviside's Expansion formula to find the problems of Inverse Laplace transform.
					CO6	Compare Second shifting , change of scale properties in Laplace transform and Inverse Laplace transforms.
7	2020-21	VI	20-MAT-601	LINEAR ALGEBRA	CO1	Know about Matrices, Vector Space, Linear Transformation and Inner Product Space.
					CO2	Understand the concepts of Vector Space, Basis and Dimensions, Linear Transformation, Rank Nullity Theorem.
					CO3	Discuss Rank of the matrix, Characteristic roots and values, Cayley's Hamilton Theorem, Inner Product and Orthogonal vectors.
					CO4	Apply the knowledge of Vector Space, Basis and Dimensions and Rank Nullity Theorem while solving the problems
					CO5	Use the Gram-Schmidt of orthogonalisation process to find the orthonormal basis.
					CO6	Compare Cauchy's Schwartz inequality and Bessel's inequality.
8	2020-21	VI	20-MAT-602	INTEGRAL TRANSFORM	CO1	Know about the Fourier Transform,inverse Fourier Transform and it's properties.
					CO2	Understand Fourier sine transform , Fourier cosine transform and its inverse transforms.
					CO3	Discuss Modulation theorem, parseval's identities.
					CO4	Solve ordinary differential equations and integral equations using Laplace transform.
					CO5	Apply the knowledge of Laplace transform to boundary value problems.
					CO6	Evaluate Laplace or Fourier transform of the given function.
9	2020-21	VI	20-MAT-603	ADVANCED NUMERICAL ANALYSIS	CO1	To learn errors in Numerical computations, solution of algerbic and transcendental equations and Interpolation
					CO2	Estimate the error, absolute, relative percentage errors and errors in polynomial interpolation.
					CO3	Explains Newton's formula, Gauss interpolation formula and streling' formula for interpolation formula
					CO4	Compute percentage error and detection of errors by use of difference tables.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
10			20-MAT-604	PROJECT WORK	CO5	Apply legrange's formula and Newton's interpolation formula to find the missing the data in the table.
					CO6	Distinguish when to apply Legrange's formula and Newton's formula.
					CO1	Recall the concepts studied in B.Sc
					CO2	Prepare the Project
					CO3	Apply the suitable concepts to the real world problem
					CO4	Create new problem and gets solution.
20. PHYSICS : 2020-2021						
1	2020-21	I	20-PHY-1C1	MECHANICS, WAVES & OSCILLATIONS	CO1	Analyse Newton's laws of motion, motion of variable mass system and its application to rocket motion
					CO2	Apply the rotational kinematic relations, the principle and working of gyroscope and its applications.
					CO3	Understand postulates of Special theory of relativity and its consequences such as length contraction, time dilation, relativistic mass and mass-energy equivalence.
					CO4	Examine phenomena of simple harmonic motion and the distinction between undamped, damped and forced oscillations and the concepts of resonance and quality ---factor with reference to damped harmonic oscillator.
					CO5	Figure out the formation of harmonics and overtones in a stretched string and acquire the knowledge on Ultrasonic waves, their production and detection and their applications in different fields.
2	2020-21	II	20-PHY-2C2	OPTICS	CO1	Remember the phenomenon of interference of light and its formation in Lloyd's single mirror due to division of wave front, Thin films, Newton's rings and Michelson interferometer due to division of amplitude.
					CO2	Understand the difference between Fresnel's diffraction and Fraunhofer diffraction, observe the diffraction patterns in the case of single slit and the diffraction grating. : Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.
					CO3	Understand the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity.
					CO4	Apply the basic principle of laser, the working of He-Ne laser and Ruby lasers and their applications in different fields.
					CO5	Apply the different aberrations in lenses and discuss the methods of minimizing them.
					CO6	Analyse the basic principles of fibre optic communication and explore the field of Holography and optics and their applications.
					CO1	Remember the phenomenon of interference of light and its formation in Lloyd's single mirror due to division of wave front, Thin films, Newton's rings and Michelson interferometer due to division of amplitude.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
3	2020-21	III	20-PHY-301	WAVE OPTICS	CO2	Understand the difference between Fresnel's diffraction and Fraunhofer diffraction, observe the diffraction patterns in the case of single slit and the diffraction grating. : Describe the construction and working of zone plate and make the comparison of zone plate with convex lens.
					CO3	Understand the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity.
					CO4	Apply the basic principle of laser, the working of He-Ne laser and Ruby lasers and their applications in different fields.
					CO5	Apply the different aberrations in lenses and discuss the methods of minimizing them.
4	2020-21	IV	20-PHY-401	HEAT AND THERMODYNAMICS	CO1	Understand the basic aspects of kinetic theory of gases, Maxwell-Boltzmann distribution law and transport phenomenon in gases
					CO2	Gain knowledge on the first and the second law of thermodynamics, Carnot's engine, principles of refrigeration, concept of entropy.
					CO3	Understand the various methods of production of plane, circularly and polarized light and their detection and the concept of optical activity.
					CO4	Differentiate between principles and methods to produce low temperature, liquefaction of helium gas and to understand the practical applications of substances at low temperatures.
					CO5	Examine the nature of black body radiations and the basic theories.
5	2020-21	V	20-PHY-501	ELECTRICITY, MAGNETISM & ELECTRONICS	CO1	Understand the Gauss law and its application to obtain electric field in different cases.
					CO2	Distinguish between the magnetic effect of electric current and electromagnetic induction and apply the related laws in appropriate circumstances.
					CO3	Develop an understanding on the unification of electric and magnetic fields and Maxwell's equations governing electromagnetic waves.
					CO4	Phenomenon of resonance in LCR AC-circuits, sharpness of resonance, Q- factor, Power factor and the comparative study of series and parallel resonant circuits.
					CO5	Describe the operation of p-n junction diodes, zener diodes, transistors and logic gates.
6	2020-21	V	20-PHY-502	MODERN PHYSICS	CO1	To understand the concepts of Atomic physics, molecular physics, basic elementary quantum mechanics and nuclear physics.
					CO2	To familiarize the concepts of matter waves, Uncertainty principle and Schrodinger wave equation.
					CO3	To study the properties of nucleus, nuclear models, nuclear detectors and elementary particles.
					CO4	To analyse the types of materials, Miller indices and X-ray diffraction.
					CO5	To create awareness on superconductors and their applications.
					CO1	Remember different types of chemical bonds – Ionic bond, covalent bond or homopolar bond, Metallic bond, Dispersion bond, Dipole bond, Hydrogen bond and Binding energy of a crystal.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
7	2020-21	VI	20-PHY-601	MATERIALS SCIENCE	CO2	Understand Classification of materials, Crystalline, Amorphous, Glasses, Metals, Alloys, Semiconductors, Polymers, Ceramics, Plastics, Biomaterials, Composites, Bulk and nanomaterial.
					CO3	Understand point defect, line defect, surface defect, volume defect and their minimization methods, Diffusion in solids- Fick's laws of diffusion.
					CO4	Apply Mechanical Behaviour of Materials, Creep – Fracture, Factors affecting mechanical properties of a material, Deformation of metals.
					CO5	Apply Dia-, Para-, Ferri- and Ferromagnetic materials, Curie's law, Weiss's theory of ferromagnetism, Ferromagnetic domains, B-H Curve, Hysteresis and energy Loss.
					CO6	Analyse dielectric Materials in terms of dielectric constant, dielectric strength and dielectric loss. Factors affecting polarization, ferroelectric, piezoelectric and pyroelectric materials.
8			20-PHY-602	FUNDAMENTALS OF NANOSCIENCE	CO1	Remember solid state – size dependence of properties, crystal structures, Lattice vibrations, Energy bands of Insulators Semiconductors and conductors.
					CO2	Understand about the classification of Nanomaterials, carbon nanotubes and cones, Organic nanomaterials, Bionanomaterials, Nanomaterials for molecular electronics and optoelectronics.
					CO3	Understand classification of polymers, chain polymerization, step polymerization, degree of polymerization, Kinetics of free radical polymerization.
					CO4	Apply tiny motors, Gyroscopes and accelerometers. Nano particle embedded wrinkle resistant cloth, Transparent Zinc Oxide sun screens.
					CO5	Analyse Biomaterials, Implant materials- Stainless steels and its alloys, Ti and Ti based alloys, Ceramic implant materials Soft tissue replacement implants, Artificial organs Internal Fracture Fixation Devices.
					CO6	Apply Bio-systems, Nanoscale processes in environment. Quantum control and quantum computing. Single electron transistors, Quantum dots, Quantum wires.
9			20-PHY-603	SYNTHESIS AND CHARACTERIZATION OF NANOMATERIALS	CO1	Remember Synthesis and nanofabrication, Chemical precipitation methods, sol-gel method, chemical reduction, hydro-thermal process.
					CO2	Understand Physical Vapour deposition (PVD), Sputtering, Chemical Vapor deposition (CVD), spray pyrolysis, Synthesis using microorganisms and bacteria, Synthesis using plant extract.
					CO3	Understand types of materials, diffusion, Mechanical properties. Metallic glasses. Electrical, magnetic and thermal properties of materials.
					CO4	Apply the theories for the glass transition, determination of glass-transition temperature. Apply glasses in Electronic, Electrochemical, optical and Magnetic fields.
	CO5	Apply different liquid crystals in Thermal and electric fields. Apply liquid crystals in Liquid Crystals displays.				
	CO6	Analyse XRD, SEM, TEM, AFM, XPS and PL characterization techniques for nanomaterials.				

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
10			20-PHY-604	APPLICATIONS OF NANOMATERIALS AND DEVICES	CO1	RememberCoulomb interaction in nanostructures, Concept of dielectric constant for nanostructures and charging of nanostructure. Excitons in direct and indirect band gap semiconductor nanocrystals.
					CO2	Understand the carrier transport in nanostructures. Hall effect, Coulomb blockade effect, tunneling and hopping conductivity. Deep level surface defects.
					CO3	Understand optical switching and optical data storage. Magnetic quantum well; magnetic dots - magnetic data storage. Micro Electromechanical Systems (MEMS), Nano Electromechanical Systems (NEMS).
					CO4	Apply nanoparticles, quantum dots, nanowires and thin films for photonic devices (LED, solar cells). Single electron transfer devices and CNT based transistors.
					CO5	Apply DNA double nanowires, Nanomaterials in drug delivery and therapy, Nanomedicine, Targeted gold nanoparticles for imaging and therapy.
21. STATISTICS : 2020 - 2021						
1	2020-21	I	20-SAT-1C1	DISCRIPTIVE STATISTICS AND PROBABILITY	CO1	Organize , manage and present data
					CO2	Analyze statistical data using measures of central tendency, dispersion
					CO3	Translate real life problems into probability models
					CO4	Calculate probabilities and derive marginal and conditional distributions of univariate and bivariate random variables
2	2020-21	II	20-SAT-2C2	MATHEMATICAL EXPECTATIONS AND THEORITICAL DISTRIBUTIONS	CO1	Use discrete and continuous probability distributions, including requirements, mean and variance , and making decisions
					CO2	Define binomial outcomes and compute probability of getting x successes in N trials
					CO3	Identify the characteristics of different discrete and continuous distributions
					CO4	Identify the type of statistical situations to which different distributions can be applied
					CO5	Use Poisson, exponential distributions to solve statistical problems
					CO6	Use the normal probability distribution including standard normal curve calculations of appropriate areas
3	2020-21	III	20-SAT-301	STATISTICAL METHODS AND SAMPLING DISTRIBUTIONS	CO1	Calculate and interpret the correlation between two variables
					CO2	Calculate the simple linear regression equation for a set of data
					CO3	Employee the principles of linear regression and correlation, including least square method, Predicting a particular value of Y for a given value of X and significance of the correlation Coefficient.
					CO4	Know the association between the attributes.
					CO5	Knowledge about basic concepts of exact sampling distributions.
					CO6	Knowledge about probability density functions , properties ,applications of exact sampling distributions
					CO1	Know the construction of point and interval estimators
					CO2	Evaluate the properties of estimators
					CO3	Demonstrate understanding of the theory of maximum likelihood estimation

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
4	2020-21	IV	20-SAT-401	STATISTICAL INFERENCE	CO4	Knowledge about important inferential aspects such as point estimation, test of hypotheses and associated concepts
					CO5	Knowledge about inferences from Binomial , Poisson and Normal distributions as illustrations
					CO6	Knowledge about order statistics and associated distributions
					CO7	Concept about non-parametric method and some important non-parametric tests
					CO8	Analyze Statistical data using MS-Excel
5	2020-21	V	20-SAT-501	SAMPLING TECHNIQUES AND DESIGN OF EXPERIMENTS	CO1	Basic knowledge of complete enumeration and sample, sampling frame, sampling distribution, sampling and non-sampling errors, principle steps in sample surveys limitations of sampling etc..,
					CO2	Introduced to various statistical sampling schemes such as simple, stratified and systematic Sampling.
					CO3	An idea of conducting the sample surveys and selecting appropriate sampling techniques.
					CO4	Knowledge about comparing various sampling techniques.
					CO5	Carry out one way and two way analysis of Variance.
					CO6	Understand the basic terms used in design of experiments.
		20-SAT-502	STATISTICAL QUALITY CONTROL AND RELIABILITY	CO1	Understand the concepts of quality control, chance and assignable causes of variation, control charts for variables and attributes, producer's and consumer's risk- Acceptance sampling plans.	
				CO2	Understand the setting of mean chart limits. Range chart limits using mean and range charts.	
				CO3	Know the various techniques of operation research.	
				CO4	Translate a real – word problem. Given in words, into a mathematical formulation.	
				CO5	Understand various data collection methods enabling them to have better insight in policy making, planning and systematic implementation.	
6	2020-21	VI	20-SAT-601	APPLIED STATISTICS	CO1	Know about time series data, its applications to various fields and component of time series.
					CO2	Fitting of trend by moving average method.
					CO3	Know the measurement of seasonal indices by ratio to trend , ratio to moving average and link relative methods.
					CO4	Knowledge the measures of demography pertaining to its three basic aspects namely the Fertility ,mortality and the migration.
					CO5	Understand various data collection methods enabling them to have better insight in policy making, planning and systematic implementation.
					CO6	Knowledge about construction and implementation of life tables.
22. ZOOLOGY : 2020-2021						
1	2020-21	I	20-ZOO-1C1	Animal Diversity of Invertebrates	CO1	The students have ability to identify the different types of invertebrate
					CO2	The students got ability to understand the classification
					CO3	The students understand the lifecycles and anatomy by studying the type studies of different animals
					CO4	The students have ability to understand the evolution process by connecting links like Peripatus, Balanoglossus

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
					CO5	By studying the lifecycles of parasites make awareness and prevents the spreading of diseases
2	2020-21	II	20-ZOO-2C2	Animal diversity of Chordates	CO1	Student get the knowledge of diversity of chordates
					CO2	Student can understand different types of systems in vertebrates
					CO3	Student can understand dentition mechanism and evolutionary conceptual significance in orientation of Zoogeography.
					CO4	Student can demonstrate the parental care in Amphibians and make a project on flight adaptations in birds
					CO5	Critically give information of Hermdenia, scales in Fishes, Petromyzon and Myxine in the view of progressive and retrogressively
3	2020-21	III	20-ZOO-301	CELL BIOLOGY, GENETICS, AND EVOLUTION	CO1	Students get the knowledge of about the basic unit of the living organisms and to differentiate the organisms by their cell structure.
					CO2	Student can understand fine structure and function of plasma membrane and different cell organelles of eukaryotic cell
					CO3	Student understand the history of origin of branch of genetics, gain knowledge on heredity, interaction of genes, various types of inheritance patterns existing in animals
					CO4	Acquiring in depth knowledge on various aspects of genetics involved in sex determination, human karyotyping and mutations of chromosomes resulting in various disorders Students can demonstrate the different types of mutations
					CO5	Critically give information of sex linked inheritance.
4	2020-21	IV	20-ZOO-401	EMBRYOLOGY, PHYSIOLOGY, ECOLOGY AND ANIMAL BEHAVIOUR	CO1	• Student get the knowledge of several procedures listed in the syllabus of 20-ZOO-401
					CO2	• Student get the knowledge of pre and post zygotic activities chordates • Student able to summarize physiological activities of chordates
					CO3	Students can able to explain community interactions in community and environment
					CO4	Apply phase rule to various systems
					CO5	Students can establish the learning outcomes with other animals
					CO6	Students decide the differences activities occurred in nervous system, muscle contraction
5			20-ZOO-501	ANIMAL BIOTECHNOLOGY	CO1	Write about different types of Restriction modification systems and DNA modifying Enzymes
					CO2	Describe different techniques of genetic engineering
					CO3	Applying Animal cell technology to develop vaccines for curing different viral diseases
					CO4	Apply Biotechnology tools in sustainable Agricultural and medicinal development
					CO5	Appreciate the role of biotechnology in disease eradication
6	2020-21	V	20-ZOO-502	ANIMAL HUSBANDRY	CO1	Students can learn about the the Principles of poultry housing, Poultry houses, Systems of poultry farming and Management of chicks, growers layers and broilers .
					CO2	Students can understand the Nutrient requirements for different stages of layers and broilers. Methods of feeding. Poultry diseases – viral, bacterial, fungal and parasitic (two each); symptoms, control and management.
					CO3	Applying of knowledge in Selection, care and handling of hatching eggs. Egg testing.

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
					CO4	Applying the know;edge of animal husbandary to diffeentiate Indian Cattle breeds from exotic breeds
					CO5	students can establish the learning out comes with other animals and can capable to take Care and management of calf, heifer, milk animal, dry and pregnant animal, bulls and bullocks.
7	2020-21	VI	20-ZOO-601	IMMUNOLOGY	CO1	Write the cells and organs of immune system which participated in immune response
					CO2	Describing the role and functions of glands and MHC in immune system
					CO3	Preparing the chart of Haemopoiesis, Making flow chart of endogenous and exogenous path way
					CO4	Analyse the different types of immunoglobulins, polyclonal and monoclonal antibodies
					CO5	Recommending the non-allergic foods to hypersensitivity persons, Appraising the efforts made by the scientist in discovering the vaccines
8			20-ZOO-602	Principles of Aquaculture	CO1	Write about the principle and Practices of Aquaculture.
					CO2	Understand different types of culture and practices of fishes and shrimps
					CO3	Describe the preharvesting process of fishes and shrimps
					CO4	Compute the nutrition's required for providing Natural &Artificial feed in Aquaculture
					CO5	Evaluate suitable entrepreneurship among prawn, shrimp, pearl oysters, ornamental fishes
	CO6	Analyse the qualities of water in Aquaculture ponds				
9	20-ZOO-603	Aquaculture Management	CO1	Student gain the knowledge of activities in pre and post harvesting		
			CO2	Student can understand the process of hypophysation in preharvesting and post harvesting techniques		
			CO3	Gain the knowledge and understand the principle aeration and the role of additives and preservatives in feed management		
			CO4	They can able to apply the knowledge of hypophysation with the using synthetic hormonal action with suitable hormones and the role of feed additives and preservatives		
			CO5	Students can able to analyse the qualities of water and soil in any other aquaculture ponds		
10	20-ZOO-604	Postharvest technology	CO1	Student able to enumerate postharvesting processors		
			CO2	Student able to describe the process and methods of preservation		
			CO3	Student able to explain by-products and seaweed products		
			CO4	Student able to demonstrate the sanitation and quality control in postharvesting technology		
			CO5	Student able to distinguish between different quality assurance and management certification methods		

23.B.VOC (FOOD PROCESSING TECHNOLOGY) 2020-21

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
1	2020-21	I	20-BVO-1CA	BASICS OF FOOD CHEMISTRY & ANALYSIS (BVO-ICA)	CO1	Students will acquire the general chemical structures of the major components of foods (water, proteins, carbohydrates, and lipids) and selected minor components (vitamins and minerals).
					CO2	Students will understand about the change that occurs in foods during processing.
					CO3	Students will describe the classification, structure and chemistry of the various food components.
					CO4	Students will understand the change that occurs in the different constituents during storage and ways and means to prevent it.
2	2020-21	II	20-BVO-1CB	PRINCIPLES OF FOOD PRESERVATION AND TECHNOLOGY (BVO-1CB)	CO1	They will understand about the basics, working principle, applications of high pressure processing method used in food industry
					CO2	They will understand about different heat preservation techniques like pasteurization, sterilization, aseptic processing, UHT, thermal resistance of microorganisms.
					CO3	They will acquire knowledge about freezing theory, different food freezers, quality of frozen food.
					CO4	They will learn different drying methods, quality of dried foods.
					CO5	They will get the knowledge about irradiation with respect to sources, units, doses, effect on microorganisms and quality of irradiated foods, consumer safety.
24. BOTANY 2020-21						
1	2020-21	I	20-BOT-1C1	Fundamentals of Microbes and Non - Vasular plants	CO1	Explain orgin of life on the earth
					CO2	Illustrate diversity among the virus and prokaryotic, organism and can categorized them
					CO3	classify fungi, lichenes, alage and bryophytes based on their struture, reproduction and life cycles.
					CO4	Analyze and ascertain the plant disease symptoms due to viruses, bacteria andfungi.
					CO5	Recall and explain the evolutionary trends among amphibians of plant kingdom for their shift to landhabitat
2	2020-21	II	20-BOT-2C2	Basics of Vascular plants and Phytogeography	CO1	Classify and compare Pteridophytes and Gymnosperms based on their morphology, anatomy, reproduction and life cycles.
					CO2	Justifyevolutionary trends in tracheophytes to adapt for land habitat.
					CO3	Explain the process of fossilization and compare the characteristics of extinct and extant plants.
					CO4	Critically understand various taxonomical aids for identification of Angiosperms.
					CO5	Analyze the morphology of the most common Angiosperm plants of their localities and recognize their families.
					CO6	Evaluate the ecological, ethnic and economic value of different tracheophytes and summarize their goods and services for human welfare
3	2020-21	VI	20-BOT-601	Nursery, Gardening and Floriculture	CO1	Understand core concepts Nursery infra structure and rotuiene operational skills in the Nursery
					CO2	Classify the gardens, land scape management and famous gardens of India
					CO3	Analysis of phytogeography or phytogeographical divisions of India

COURSE OUTCOMES : UG 2020-2021

S. No	Year	Semester	Course Code	Title of the Course	Course Outcome Number	Course Outcomes
				and Floriculture.	CO4	Evaluate the plant propagation methods, and structures in the green house establishment
					CO5	Understanding about the ornamental plants and their propagation
					CO6	Develop commercial strategies in the global market of floriculture and its management
4	2020-21	VI	20-BOT-601	ETHNOBOTANY AND MEDICINAL BOTANY	CO1	Conceptualize Ethnobotany as an interdisciplinary science
					CO2	Understand the role of ethnobotany in modern medicine:
					CO3	Categories various indigenous ethnic groups and their environmental practices.
					CO4	Understand the methodology of Ethnobotany studies.
					CO5	Understand the legalities associated with Ethnobotany.
					CO6	Understand the conservation of endangered and endemic medicinal plants
5	2020-21	VI	20-BOT-602	Phytochemistry and Pharmacognosy	CO1	Conceptualize Phytochemistry as an interdisciplinary science of Botany
					CO2	Understand the role of phytochemicals as natural drugs
					CO3	Categories various secondary metabolites existing in plant kingdom and their uses
					CO4	Understand the principles and applications of Pharmacognosy in crude drug studies
					CO5	Understand the pathways of production of secondary metabolites
					CO6	Understand the nature of physiological effects and role of immunoglobins, vitamins antioxidants, antibiotics in Human health.
6	2020-21	VI	20-BOT-603	Plant Ecology and Phytogeography	CO1	Understand core concepts of biotic and abiotic components.
					CO2	Classify the soils on the basis of physical, chemical and biological components
					CO3	Analysis of phytogeography or phytogeographical divisions of India
					CO4	Evaluate energy sources of ecological system
					CO5	Assess the adaptation of plants in relation to light, temperature, soil and water.
					CO6	Develop understanding of the concept of plant biodiversity.


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