



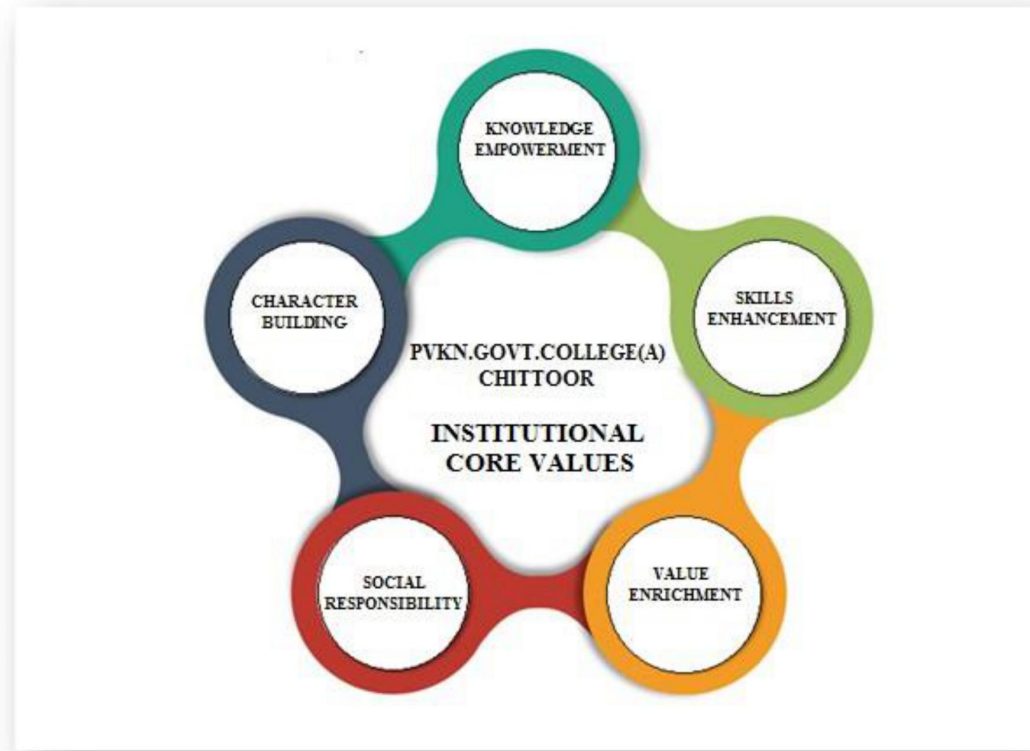
PVKN.Govt.College(A), Chittoor

Chittoor (Dt)., Andhrapradesh, 517002

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

2019-2020

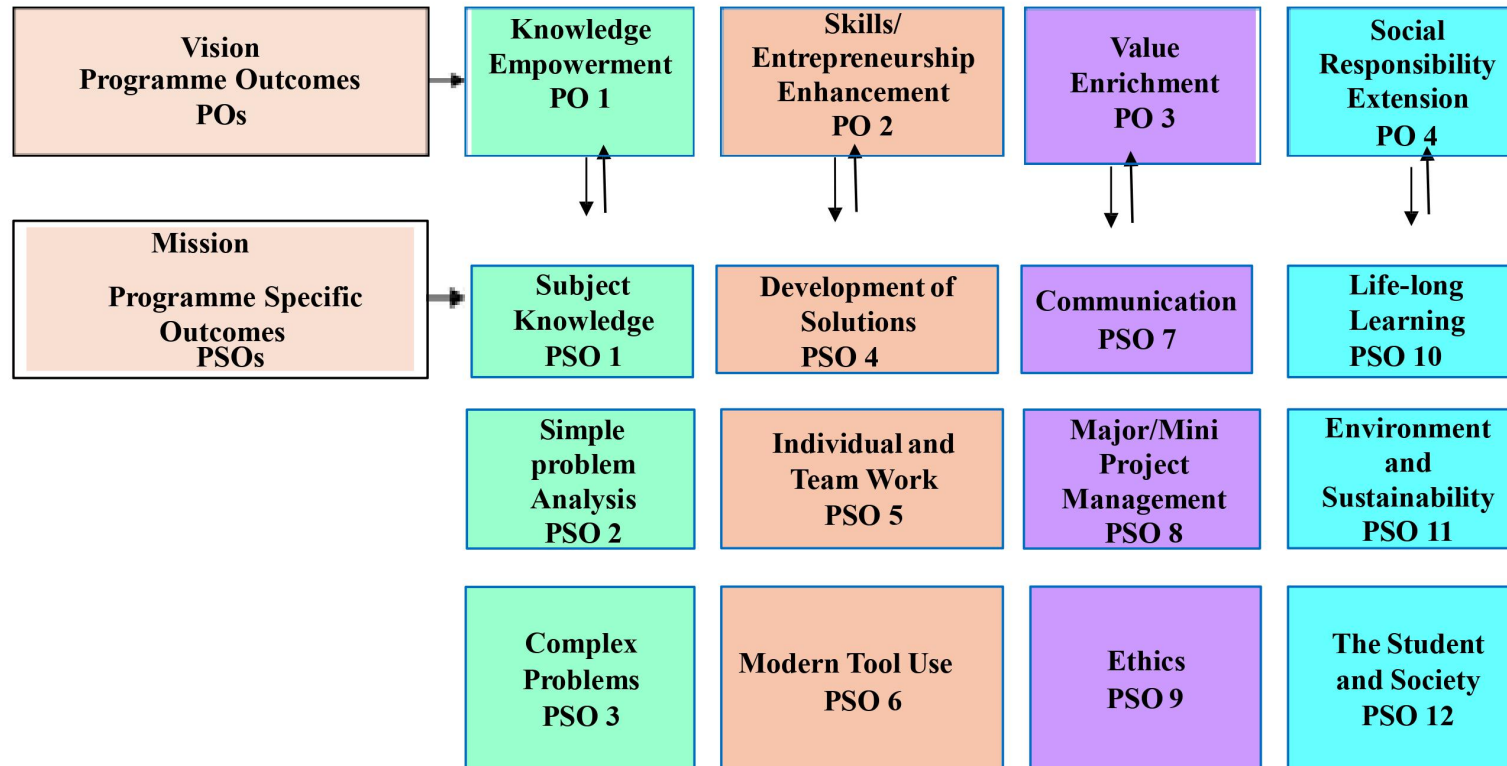
PVKN.Govt.College(A), Chittoor
Chittoor (Dt), AP, 517002



Vidhyaya Amrutham Asnuthe

PVKN.Govt.College(A), Chittoor

STATEMENT OF OUTCOMES



Additional Information

The following table presents brief information on the curriculum developed with reference to Explaining Objectives / Program Outcome / Program Specific Outcome / Course Outcome

1.1.1 A. Programme Learning Objectives		
Code	Programme	Learning Objectives
B-0101-0	B.A. (HEP-Telugu Medium) History, Economics, Political Science	<ul style="list-style-type: none">• To make students to gain relevant knowledge that forms a strong foundation in core disciplines.•To improve discipline-specific skills in oral communication by presenting their views in formal and informal class debates, discussions, presentations about complex theoretical concepts from a wide range of sources and disciplines.•To facilitate students on moral and philosophical theories of History, Economics, Political Science and Social Work based on ethical dimensions.
B-0102-0	B.A. (HPT) History, Political Science, Telugu Literature	<ul style="list-style-type: none">•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

B-0201-0	B.Com. (Gen) General	<ul style="list-style-type: none"> •To facilitate adequate knowledge and understanding in core disciplines that can be applied in the present day global corporate scenario.
B-0202-5	B.Com. (CA) Computer Applications	<ul style="list-style-type: none"> •To develop discipline-specific skills through a critical examination of new developments, practices, challenges and the impact of computer applications in business, trade and commerce in local, national and international frame works. • To develop ethical values through a spirit of healthy competition, cooperation and empathy while applying concepts in real life situations. •To understand and appreciate the contribution of business to the society and motivate to work for its development.
B-0301-5	B.Sc. (MPC) Mathematics, Physics, Chemistry	<ul style="list-style-type: none"> •To facilitate students with requisite theoretical and practical knowledge and apply them in inter-disciplinary scientific fields.
B-0303-5	B.Sc. (MPCS) Mathematics, Physics, Computer Science	<ul style="list-style-type: none"> •To develop skills and nurture talents of students through various activities, promote passion for research through mini/ major projects and enhance employability.
B-0304-5	B.Sc. (MSCS) Mathematics, Statistics, Computer Science	<ul style="list-style-type: none"> • To help learners in understanding the importance of ethical values in all walks of life. • To make them aware of environmental concerns, be committed to sustainable development and strive to promote a harmonious society.
B-0306-5	B.Sc. (MECS) Mathematics, Electronics, Computer Science	

B-0302-0	B.Sc. (BZC) Telugu Medium Botany, Zoology, Chemistry	
B-0302-5	B.Sc. (BZC) English Medium Botany, Zoology, Chemistry	<ul style="list-style-type: none"> •To develop a comprehensive knowledge of the functioning of cells and genes in the body of organisms and plants in an eco-friendly environment.
B-0305-5	B.Sc. (BMC) Botany, Microbiology, Chemistry	<ul style="list-style-type: none"> • To impart skills to diagnose different diseases and motivate them to establish diagnostic centers. • To understand ethical concerns and responsibilities associated with these core disciplines.
B-0307-5	B.Sc. (BHC) Botany, Horticulture, Chemistry	<ul style="list-style-type: none"> •To apply technology for a better life, through improved nutritional quality, recycling of waste, and strive for sustainable development of society.

Program Outcomes and Program Specific Outcomes

UG COURSES: B.A/ B.Com/ B.Sc

Programme Code	Programme	Programme Outcome (POs)	Programme Specific Outcomes (PSOs)
B-0101-0	B.A. (HEP-TM) History, Economics, Political Science	<p>PO1: Knowledge Empowerment Exhibit a comprehensive knowledge to recognize, appreciate the developments in the contemporary world.</p> <p>PO2: Skill Enhancement To Equip students with skills of creative and critical thinking, evaluate the validity of arguments and draw conclusions. Communicate concepts and information clearly in various formats (oral, visual, written, etc.)</p> <p>PO3: Value Enrichment To make Students to reflect on one's cultural identity, values and accept heterogeneous cultures.</p> <p>PO4: Social Responsibility and Extension To sensitize extension and promotion of social responsibility, citizenship, community engagement, public health and safety.</p>	<p>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.</p>
			<p>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.</p>
			<p>Political Science: Develops and demonstrates academic proficiency in the subfields of Political Theory, Indian Government and Politics, Comparative Government, 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.</p>
B-0102-0	B.A. (Lit) History, Political Science, Telugu Literature	<p>PO1: Knowledge Empowerment Exhibit a comprehensive knowledge to recognize, appreciate the developments in the contemporary world.</p> <p>PO2: Skill Enhancement To Equip students with skills of creative and critical thinking, evaluate the validity of arguments and draw conclusions. Communicate concepts and information clearly in various formats (oral, visual, written, etc.)</p> <p>PO3: Value Enrichment To make Students to reflect on one's cultural identity, values and accept heterogeneous cultures.</p> <p>PO4: Social Responsibility and Extension To sensitize extension and promotion of social responsibility, citizenship, community engagement, public health and safety.</p>	<p>History: Students will understand the evolution of Man, the development of Cultural Civilization, evolution of the Polity and grasp the chronological aspects of History. Studying the past enables the student to comprehend the present age in a broader perspective.</p>
			<p>Political Science: Develops and demonstrates academic proficiency in the subfields of Political Theory, Indian Government and Politics, Comparative Government, International Relations, World Constitutions, Human Rights and Public Administration. The student will develop analytical, critical thinking and have orientation towards research skills in Political Science.</p>
			<p>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 texts while critically appreciating them.</p>

B-0201-0	B.Com (Gen) General	<p>PO1: Knowledge Empowerment To develop Knowledge in the core disciplines of Commerce, Economics and Business through a number of specializations and practical exposure enables them to face the challenges in the field of Commerce.</p>	<p>Knowledge of major theories and models in key areas motivate them to pursue higher studies / research / face competitive examinations leading to career opportunities.</p>
B-0202-5	B.Com (CA) Computer Applications	<p>PO2: Skill Enhancement Development of Computer and managerial skills will give value addition and make them employable.</p> <p>PO3: Value Enrichment It Enable them to develop value-based solutions to commerce - related problems</p> <p>PO4: Social Responsibility and Extension It enable students to develop the ability to discuss and debate on national and international economic, commercial, and business issues and take effective decisions for the benefit of the society</p>	<p>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.</p> <p>Knowledge of major theories and models in key areas which motivate them to pursue higher studies / research / face competitive exams like CA, CS, ICWA and other courses.</p> <p>Demonstrate effective and critical decision making skills</p> <p>Practical skills promises them a bright career as computer professionals, audit assistants, businessmen, entrepreneurs, managers and consultants in financial supporting services sectors.</p>
B-301-5	B.Sc. (MPC) Mathematics, Physics, Chemistry	<p>PO1: Knowledge Empowerment It empowers the students with Knowledge of basic concepts, principles, the scientific theories and their relevance in day-to-day life.</p> <p>PO2: Skill Enhancement It paves the way for critical and creative graduates through hands on experience in the laboratories.</p> <p>PO3: Value Enrichment Provide value-based services through outreach activities.</p> <p>PO4: Social Responsibility and Extension Transform them to become nurturers of Environment and Society.</p>	<p>Mathematics: Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.</p> <p>Physics: Able to understand various Physics- based applications in daily life and get motivated to pursue higher studies, research, attempt competitive examinations leading to career opportunities industries.</p> <p>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.</p>

B-303-5	B.Sc. (MPCS) Mathematics, Physics, Computer Science		Mathematics: Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.
			Physics: Able to understand various physics based applications in daily life and get motivated to pursue higher studies, research, attempt competitive examinations leading to career opportunities in industries.
			Computer Science: Builds a strong technical base foundation in 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.
B-304-5	B.Sc. (MSCS) Mathematics, Statistics, Computer Science		Mathematics: Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.
			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.
			Computer Science: Builds a strong technical base foundation in information Technology to face challenges of a futuristic world. Upon completion of the course, students would be able to develop projects independently, effectively and be able to provide simple software solutions to real life practical problems using related technologies.
B-306-5	B.Sc. (MECS) Mathematics, Electronics, Computer Science		Mathematics: Ability to apply the knowledge of mathematical concepts, methods and theorems for the derivation and analysis of basic concepts in other disciplines.
			Electronics: Become competent to develop industrial and entrepreneur applications through the knowledge of design process, assembly language & High Level Language programming, interfacing of electronic devices with computers, etc.

			<p>Computer Science: Builds a strong technical base foundation information Technology to face challenges of futuristic world. Upon completion of the course, students would be able to develop projects independently, effectively and able to provide simple software solutions to real life practical problems using related technologies.</p>
<p>B-302-0</p>	<p>B.Sc. (BZC) Botany, Zoology, Chemistry Telugu Medium</p>	<p>PO1: Knowledge Empowerment To Empower students with knowledge of basic concepts, principles, scientific theories related to various scientific phenomena and their relevance in day-to-day life with an interdisciplinary approach.</p>	<p>Botany: Enables 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.</p>
		<p>PO2: Skill Enhancement Equip students with skills of observation and logical inference from scientific experiments.</p>	<p>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 inter 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.</p>
		<p>PO3: Value Enrichment Enriched with values to respect the diversity of life and practice limited use of natural resources.</p>	<p>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.</p>
<p>B-302-5</p>	<p>B.Sc. (BZC) Botany, Zoology, Chemistry English Medium</p>	<p>PO4: Social Responsibility and Extension Students become nurturers of Environment and Society.</p>	<p>Botany: Enables 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.</p>
			<p>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 inter specific animal relationships and their interdependency and</p>

			<p>identification of pathogenic organisms and rectification of different Diseases. It creates aesthetic mind-set and calls for conservation.</p>
<p>B-305-5</p>	<p>B.Sc. (MZC) Microbiology, Zoology, Chemistry</p>		<p>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</p>
			<p>Microbiology: Knowledge on microbial classification, structures, general characters, nutrition, growth and control that enables students to analyze various microorganisms and their applications in Medical, Industrial, Environmental and Agricultural aspects of Microbiology.</p>
			<p>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 inter 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.</p>
			<p>Chemistry: Enables students the ability 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.</p>



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Courses Outcomes of all Programmes

Offered by the Institution during 2019-2020

COURSE OUTCOMES: UG COURSES: B.A/B. Sc/B.Com

ENGLISH

S.no	Course Code	Course Title	Course Outcomes	
1	18-ENG-101	GENERAL ENGLISH -I	C01	Students read and learn about great personalities and get motivation
			C02	Students will be able to express themselves in their mother tongue as it paves the way to learn other languages.
			C03	Students read and appreciate the poems and take a cue out of them
			C04	Students will learn to be rationalistic and learn about mother's concern for their children's well – being.
			C05	Students enjoy stories and relate them to their lives.
			C06	Students are introduced to Dramatists like Shakespeare to inculcate the skills of role-play.
2	18-ENG-201	GENERAL ENGLISH-II	C01	Students understand the role of Science in day – to – day life.
			C02	Students will be able to describe the people.
			C03	Students understand the social etiquette.
			C04	Students understand the importance of physical greetings in different cultures and become sensitive to other cultures.
			C05	The students get awareness on gender equality
			C06	. The students develop the story telling skill and negotiation skills

TELUGU

S.no	Course Code	Course Title	Course Outcomes	
1	18-TEL-101	GENERAL TELUGU PAPER : I OLD AND MODERN POETRY, SHORT STORIES AND GRAMMAR	C01	Students can learn about the origin of Telugu literature and about the epic Andhra Mahabharatam.
			C02	Students can learn how to write Telugu verses, prose and fiction after studying these subjects.
			C03	It gives knowledge of the word formation besides the knowledge in Telugu grammar.
			C04	It introduces the importance of the Telugu short stories to the students.
2	18-TEL-201	GENERAL TELUGU PAPER : II OLD AND MODERN POETRY, SHORT STORIES AND NOVEL	C01	Creates awareness on Devotion, Sacrifice and Glorification of dedication.
			C02	Highlights our old Telugu culture and traditions.
			C03	It encourages the students to be eco-friendly and take initiative to protect our environments.
			C04	Creates awareness on the problems of agriculture and how cultivation has declined because of drought and globalisation.

GENERAL HINDI

S.no	Course Code	Course Title	Course Outcomes	
1	18-HIN-101	GENERAL HINDI-I	C01	Acquaintance with Hindi Language, Comprehensive skills development Understanding of literature and It was envisioned that Hindi would become the sole working language of the Central government by 1965(Article 344(2), 351)
			C02	It introduces the importance of the Hindi short stories to the students.
			C03	Better understanding of societal changes.
			C04	Reading and writing skills improvement..
2	18-HIN-201	GENERAL HINDI-II	C01	Comprehensive skills development. With the immense popularity and international importance of our national language, there is also growing vista of employment in the field of Hindi language.
			C02	Communication along with academic qualification in Hindi is an added advantage for job seekers
			C03	Writing skills improved and creative writing will enhance one's style of writing In the field of TV/Cinema/ Magazines. Bi – lingual efficiency developed.
			C04	Improved imagination Skills and they have good knowledge of Hindi grammar.

SANSKRIT

S.no	Course Code	Course Title	Course Outcomes	
1	18-SAN-101	PAPER : I - SANSKRIT (POETRY, PROSE AND GRAMMAR)	C01	Students can learn about the origin of sanskrit literature and about the epic Ramayanam
			C02	Students can learn how to write Sanskrit verses, prose and fiction after studying these subjects.
			C03	It gives knowledge of the word formation besides the knowledge in Sanskrit grammar.
			C04	It introduces the importance of the Sanskrit short stories to the students.
2	18-SAN-201	PAPER : II - SANSKRIT (POETRY, PROSE AND GRAMMAR)	C01	Creates awareness on Devotion, Sacrifice and Glorification of dedication.
			C02	Highlights our Sanskrit culture and traditions.
			C03	It encourages the students to be eco-friendly and take initiative to protect our environments.
			C04	Creates awareness on the problems of agriculture and how cultivation has declined because of drought and globalisation.

URDU

S.no	Course Code	Course Title	Course Outcomes	
1	18-URD-101	Urdu: PAPER-1 (OLD AND MODERN POETRY GAZAL NAZAM AND GRAMMAR)	C01	It gives knowledge of the word formation besides the knowledge in Urdu grammar.
			C02	It introduces the importance of the Urdu Ghazal Nazam to the Students.
			C03	Students can learn some modern poetry ghazal and integrity and unity.
			C04	Creates awareness on Devotion, sacrifice and glorification of dedication.
2	18-URD-201	Urdu: PAPER- II (OLD AND MODERN PROSE)	C01	Students can learn about the origin of Urdu literature and about the AFSANI – GAIR AFSANI.
			C02	It introduces the importance of the Urdu short stories to the students (fiction and non-fiction).
			C03	Highlights our old Urdu culture (Drama) and traditions.
			C04	Creates awareness on the problems of the Urdu literature.

TAMIL

S.no	Course Code	Course Title	Course Outcomes	
1	18-TAM-101	PAPER : I – TAMIL (History of Tamil Literature, General Composition and Translation and Non Detailed)	C01	Students can learn about the origin of Tamil literature and about the epic Ettuthogai - Pathuppattu
			C02	Students can learn how to write Tamil verses, prose and fiction after studying these subjects.
			C03	It gives knowledge of the word formation besides the knowledge in Tamil grammar.
			C04	It introduces the importance of the Tamil short stories to the students.
2	18-TAM-201	PAPER : II TAMIL (History of Tamil Literature, General Composition and Translation and Non Detailed)	C01	Creates awareness on Devotion, Sacrifice and Glorification of dedication.
			C02	Highlights our Tamil culture and traditions.
			C03	It encourages the students to be eco-friendly and take initiative to protect our environments.
			C04	Creates awareness on the problems of agriculture and how cultivation has declined because of drought and globalisation.

HISTORY

S.no	Course Code	Course Title	Course Outcomes	
1	18-HIS-101	PAPER : I – ANCIENT INDIAN HISTORY AND CULTURE	C01	Students can learn about the importance of History and culture of India.
			C02	Students can learn about Harappan and Vedic civilizations
			C03	It gives knowledge on Mourya and Gupta Empires.
2	18-HIS-201	PAPER : II – EARLY AND MEDIEVAL INDIAN HISTORY AND CULTURE	C01	South Indian History especially Chalukyas, Pallavas and Cholas will be taught
			C02	Arab invasions , Ghajani and Ghori Invasion are dealt in detail
			C03	Advent of Delhi Sultanate and its importance will be known to the student
			C04	Importance of Bhakti and Sufi Movements are taught.

ECONOMICS

S.no	Course Code	Course Title	Course Outcomes	
1	18-ECO-101	Economics: Paper-I Micro Economics and Consumer Behavior	C01	Students will be able to evaluate the consequences of economic activities for individual and social welfare.
			C02	Able to understand various Methodologies of studying Economics
			C03	Able to understand and analyze utility analysis and apply the same in his life
			C04	Make the students to understand about the demand and its responses and how it will be measured
			C05	Able to understand about the consumer behaviour.
2	18-ECO-201	Economics: Paper-II Micro Economics and Consumer Behavior	C01	Make the students to have complete knowledge regarding production and its different functions
			C02	Able to acquire knowledge regarding different types of cost and revenue.
			C03	Ability to understand and working of different kinds of market structures operating in the world.
			C04	To understand how the factor prices determined and it theories, particularly about
			C05	To make the students to acquire knowledge regarding about the interest and profits.

POLITICAL SCIENCE

S.no	Course Code	Course Title	Course Outcomes	
1	18-POL-101	PAPER : I – BASIC CONCEPTS OF POLITICAL SCIENCE	C01	Students can learn about the importance of politics, various approaches to the study of politics etc.
			C02	Students can learn various key concepts in political science such as liberty equality justice etc .
			C03	It gives knowledge of Rights and Duties
2	18-POL-201	PAPER : II – POLITICAL INSTITUTIONS (CONCEPTS, THEORIES AND INSTITUTIONS)	C01	Evolution of constitution, purpose of constitution will be taught.
			C02	Importance of separation of powers and checks and balances in the system will be understood by the student.
			C03	Importance of Democracy and various factors that safeguard Democracy are taught
			C04	Nature and functions of judiciary will be explained.

TELUGU LITERATURE

S.no	Course Code	Course Title	Course Outcomes	
1	19-SPT-101	PAPER : I - SPECIAL TELUGU (OLD POETRY AND DRAMA)	C01	Students can learn how to get the success in typical or crucial positions and know how to face and solve the problems.
			C02	It mentions the role of the parents in the bringing up children with affection and discipline.
			C03	It gives broad knowledge about the social evils like dowry and its effects on the society.
			C04	It describes the unhappy life of the women because of child marriages.
2	19-SPT-201	PAPER : II - SPECIAL TELUGU (OLD POETRY AND MODERN POETRY)	C01	It reveals the importance of the Telugu genre "SATAKAM" and its influences on the people.
			C02	It helps students how to behave with values like respect, honesty, equality etc.
			C03	It inculcates the significance of modern Telugu poetry
			C04	It introduces the feminist literature by highlighting the challenges women face in the society.

B.COM

S.no	Course Code	Course Title	Course Outcomes	
1	18-COM-101	Fundamentals of Accounting-I	CO 1	Students will able to understand the accounting concepts and able to know record the business transactions.
			CO 2	Students will be able to get knowledge in preparing trail balance , Final accounts.
			CO 3	Student will get ability in prepare Bank Reconciliation statement using cash book and pass book.
			CO 4	Students will get information about Computer based accounting
2	18-Com-102	Business Organization	CO 1	This course provide knowledge in business , industry , Commerce in order to become a business man
			CO 2	It gives full information about entrepreneurship skill .It will helps to start new business.
			CO 3	It encourage to become sole trader and partner and investor in any business firm
			CO 4	It provides full knowledge in joint stock company and how to incorporate the company .
3	18-COM-103	Business Economics-1	CO 1	Students will be able to identify economic concepts and theories in order to get knowledge in business.
			CO 2	Students will be able to integrate demand analysis and forecast the demand in real life
			CO 3	Students will be able to evaluate the cost concepts and implement the minimising cost in economic activities and institutions for individual
			CO 4	Student will understand the marginal cost and their relevance for firm profitability.
4	18-COM-201	Fundamentals of Accounting-II	CO 1	Students will able to learn depreciation methods in business in order to get knowledge in preparing depreciation accounts.
			CO 2	This course will help students how to write bills and how to exchange the bill with each business.
			CO 3	Students will Get information in consignment business and details commissions
			CO 4	This course encourage the students to become business in joint venture business.
5	18-COM-	Business Environment	CO 1	The course will provide information to understand economic growth .

	202		CO 2	Students will be able to get knowledge on business micro and macro environment
			CO 3	This course depicts the NITI Ayog, economic policies and development policies
			CO 4	Students will get information about global Environment.
6	18-Com-203	Business Economics-II	CO 1	This course provide knowledge in Minimize of cost and maximization profit in business
			CO 2	This course will help students to analysis the markets, price , market structure and market demand
			CO 3	Students will be able to know the nation income and economic systems in India.
			CO 4	It helps students to know WTO and international organisation.

COMPUTER APPLICATIONS

S.no	Course Code	Course Title	Course Outcomes	
1	18-CAP-101	Computer Applications: Paper-I Fundamentals of Computers	CO 1	Bridge the fundamental concepts of computers with the present level of knowledge of the students.
			CO 2	Familiarise operating systems, programming languages, peripheral devices, networking, multimedia and internet.
			CO 1	Bridge the fundamental concepts of computers with the present level of knowledge of the students.
			CO 2	Familiarise operating systems, programming languages, peripheral devices, networking, multimedia and internet.
2	18-CAP-201	Computer Applications: Paper-II Fundamentals of Operating Systems	CO 1	To study the need for special purpose operating system with the advent of new emerging technologies.
			CO 2	To understand main components of an operating system and their function.
			CO3	To apply the skills of operating systems in real life situations

B.Sc

MATHEMATICS

S.no	Course Code	Course Title	Course Outcomes	
1	18-MAT-101	Mathematics: Paper-I Differential Equations	C01	Understand the origin of ordinary differential equations.
			C02	Learn various techniques of exact and non- exact first order differential equations and linear differential equations of higher order.
			C03	Learn the concept of a general solution of a linear differential equation of an arbitrary order and also learn a few methods to obtain the general solution of such equations.
			C04	Formulate mathematical models in the form of ordinary differential equations to suggest possible solutions of the day to day problems arising in physical, chemical and biological disciplines.
			C05	Problem solving by Method of Variation of parameters
2	18-MAT-201	Mathematics: Paper-II 3 D Geometry	C01	Understand the concepts of Plane and System of Planes
			C02	Understand the concepts of Straight Lines
			C03	Understand the concepts of Sphere and system of Spheres
			C04	Understand the concepts of Cone and Cylinder
			C05	Learns how to use Equation editor (MS-Word) and drawing 3D-Geometrical figures

PHYSICS

S.no	Course Code	Course Title	Course Outcomes	
1	18-PHY-101	Physics: Paper-I Mechanics	C01	Explain about gradient of scalar fields, divergence and curl of vector fields, vector integration, Gauss's theorem and Stoke's theorem.
			C02	Explain about variable mass systems, rocket motion, collisions, impact parameter, scattering cross-section and Rutherford scattering.
			C03	Explain about rigid bodies, rotational kinematic relations, angular momentum, Euler's equations, Gyroscope, precession of equinoxes, point load, distributed load, shearing force and bending moment.
			C04	Explain about central forces, conservative nature of central force, motion of a body under the action of central forces, Kepler's laws, motion of satellites and global positioning system (GPS).
			C05	Explain about special theory of relativity, absolute frames, Michelson-Morley experiment, Lorentz transformations, time dilation, length contraction, addition of velocities and mass-energy relation.
2	18-PHY-201	Physics: Paper-II Waves and Oscillations	C01	Explain about simple harmonic oscillator, torsional pendulum, compound pendulum, beats, combination of simple harmonic vibrations and Lissajous figures.
			C02	Explain about damped harmonic oscillator, logarithmic decrement, relaxation time, quality factor, forced oscillator, amplitude resonance and velocity resonance.
			C03	Explain about complex vibrations, Fourier's theorem, Fourier's coefficients, square wave, triangular wave and saw tooth wave.
			C04	Explain about transverse wave propagation along a stretched string, wave equation, modes of vibration, overtones, harmonics, sonometer, longitudinal vibrations in bars and tuning fork.
			C05	Explain about ultrasonics, production of ultrasonics by piezoelectric method and magnetostriction methods, detection of ultrasonics, wavelength of ultrasonics and applications of ultrasonics.

CHEMISTRY

S.no	Course Code	Course Title	Course Outcomes	
1	18-CHE-101	Chemistry: Paper-I Inorganic & Organic Chemistry	C01	To study the structure of diborane and higher boranes, preparation & applications of silanes, silicones, hydrazine & hydroxylamine.
			C02	To study types of oxides, interhalogen and pseudohalogen compounds
			C03	To understand the core concepts of organic chemistry i.e. resonance, hyper conjugation, inductive effect etc. and their applications and to study the types of organic reactions.
			C05	To study the preparations and properties of the alkenes, dienes and alkynes etc with respect to the chemical point of view.
			C06	To understand the concept of aromaticity of benzenoids & non-benzenoids, the preparation, reactivity & structure of aromatic compounds.
2	18-CHE-201	Chemistry: Paper-II Physical & General chemistry	C01	To study the Bragg's equation and different laws of crystallography and
			C02	To understand the difference between liquids and gases, how real gases are different from ideal gases at different temperature and pressure.
			C03	To understand the methods of liquefaction and intermolecular forces (Vander Waal's equation).
			C04	To study the structural differences between solids, liquids and gases, liquid crystals and their different types and applications in LCD devices.
			C05	To study different types of solutions, different laws for ideal solution (Raoult's law & Henry's law)

ELECTRONICS

S.no	Course Code	Course Title	Course Outcomes	
1	19-ELE-101	Electronics: Paper-I Basic Circuit Theory	C01	CO-1: Explain about sinusoidal alternating wave forms, sine wave for voltage and current, phase relations, difference between A.C and D.C, frequency response of basic elements R,C and L.
			C02	Explain about passive networks, Kirchhoff's current and voltage laws, series and parallel networks, LR and LCR circuits, branch current and mesh analysis, Nodal analysis, star and delta conversions.
			C03	Explain about Network theorems, Superposition theorem, Thevenin's theorem, Norton's theorem, Maximum power transfer theorem, Reciprocity theorem and Compensation theorem.
			C05	Explain about LR and CR circuits, transient response and frequency response of LR and CR circuits, time constants, low pass, high pass and band pass filters, passive differentiating and integrating circuits.
			C05	Explain about series and parallel resonance circuits, Q-factor, selectivity, band width, resonant frequency, tank circuit and LC oscillations.
2	19-ELE-201	Electronics: Paper-II Electronic Devices & Circuits	C01	CO-1: Explain about PN junction diodes, depletion region, barrier potential, forward and reverse bias conditions, junction capacitance, VI characteristics, varactor diode, Zener diode and tunnel diode.
			C02	Explain about bipolar junction transistors, operation, characteristics of CB,CC and CE configurations, hybrid equivalent model, transistor as a switch, fixed bias, emitter stabilized bias, voltage divider bias and bias stabilization.
			C03	Explain about the construction, operation and characteristics of FET/JFET, FET biasing, UJT construction and working, UJT as a relaxation oscillator, structure and working of SCR, characteristics of SCR and application of SCR for power control.
			C04	Explain about photo electronic devices, LEDs, IR emitters, photo diode, photo transistor, LDR and opto-isolators
			C05	Explain about power supplies, half wave, full wave and bridge rectifiers, efficiency, ripple factor, choke input filter, L-section filter, π -section filter, principle and working of switch mode power supplies (SMPS).

STATISTICS

S.no	Course Code	Course Title	Course Outcomes	
1	18-STA-101	Statistics: Paper-I Descriptive statistics and probability	C01	Organize , manage and present data
			C02	Analyze statistical data using measures of central tendency, dispersion
			C03	Translate real life problems into probability models
			C04	Calculate probabilities and derive marginal and conditional distributions of univariate and bivariate random variables
2	18-STA-201	Statistics: Paper-II Mathematical expectations and theoretical distributions	C01	1. Use discrete and continuous probability distributions, including requirements, mean and variance , and making decisions
			C02	Define binomial outcomes and compute probability of getting x successes in N trials
			C03	Identify the characteristics of different discrete and continuous distributions
			C04	Identify the type of statistical situations to which different distributions can be applied
			C05	Use Poisson, exponential distributions to solve statistical problems
			C06	Use the normal probability distribution including standard normal curve calculations of appropriate areas

COMPUTER SCIENCE

S.no	Course Code	Course Title	Course Outcomes	
1	18-CSC-101	Computer Science: Paper-I Computer Fundamentals and Programming in C	C01	Demonstrate knowledge in: Computer Fundamentals, Elements of C Language.
			C02	Analyze complex real world problems to develop suitable solutions.
			C03	Design algorithms for specified engineering problems.
			C04	Use appropriate 'C' language constructs for solving engineering problems.
			C05	Write programs using 'C' language to implement algorithms.
2	18-CSC-201	Computer Science: Paper-II Object Oriented Programming with C++	C01	After successful completion of the course, students will be able to demonstrate knowledge on object oriented programming concepts - Object, Class, Inheritance, Polymorphism, Encapsulation, Abstraction and Message passing.
			C02	Identify object oriented concepts for code reusability and optimization.
			C03	Design and develop solutions for given specifications.
			C04	Demonstrate problem solving skills to provide software solutions to real world problems.
			C05	Develop C++ programming to provide solutions to complex problems using object oriented concepts.

BOTANY

S.no	Course Code	Course Title	Course Outcomes	
1	18-BOT-101	Botany: Paper-I Diversity of micro-organism , Algae, Fungi & plant pathology	C01	Students will get some basic knowledge about microorganisms which will useful in the project and other practical applications.
			C02	To understand characters, classification and economic importance of algae.
			C03	To get knowledge about the general characters, classification, Reproduction, and life cycles of fungi.
			C04	To understand the mechanism of host parasitic interaction.
			C05	Identify the causative agent, symptoms and control measures of plant disease.
2	18-BOT-201	Botany: Paper-II Diversity of Archegoniate and plant Anatomy.	C01	The students will be able to understand the structure, classification, life cycle and economic importance of Bryophytes, Pteridophytes and gymnosperms
			C02	Study and impart knowledge about the structure, the production, life cycle. Fossil, fossilization and geological time scale.
			C03	The student will learn about the basic concepts in anatomy.
			C04	Understand the various components of stem and wood during its secondary growth.

ZOOLOGY

S.no	Course Code	Course Title	Course Outcomes	
1	18- ZOO- 101	Zoology: Paper-I Animal Diversity of Invertebrates	C01	Learn about the importance of systematics, taxonomy and structural organization of animals.
			C02	Appreciate the diversity of non-chordates living in diverse habit and habitats.
			C03	Understand evolutionary history and relationships of different non-chordates through functional and structural affinities.
			C04	Critically think about the organization, complexity and characteristic features of non-chordates.
			C05	Getting familiarized with the morphology and anatomy of representatives of various animal phyla.
			C06	Enhance collaborative learning and communication skills through practical sessions, team work, group discussions, assignments and projects.
2	18- ZOO- 201	Zoology: Paper-II Animal Diversity of Chordates	C01	<ul style="list-style-type: none"> Understand different classes of chordates, level of organization and evolutionary relationship between different subphyla and classes, within and outside the phylum.
			C02	Study about diversity in animals making students understand about their distinguishing features.
			C03	Appreciate similarities and differences in life functions among various groups of animals in Phylum Chordate.
			C04	Comprehend the circulatory, nervous and skeletal system of chordates.
			C05	Know about the habit and habitat of chordates in marine, freshwater and terrestrial ecosystems.

MICROBIOLOGY

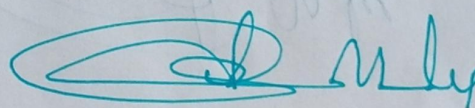
S.no	Course Code	Course Title	Course Outcomes	
1	18-MIC-101	Microbiology: Paper-I Introduction to Microbiology and Microbial diversity	C01	Demonstrate practical skills in the use of tools, technologies and methods common to Microbiology
			C02	Get an idea about the historical events in microbiology.
			C03	Understand the diversity in microbiology.
			C04	Know the scope of Microbiology.
			C05	Understand the taxonomic classification of microorganisms.
			C06	Students will get basics and importance of Microbiology.
2	18-MIC-201	Paper-II Microbial Biochemistry & Metabolism	C01	Develop fundamental knowledge about various bio molecules
			C02	Understand the basic concepts related to enzymes
			C03	Know various biochemical pathway
			C04	Understand the concept of microbial metabolism

FOUNDATION COURSES

S.no	Course Code	Course Title	Course Outcomes	
1	18-HVP-101	Foundation Course in Human Values and Professional Ethics	C01	Developing human values and positive personality among students.
			C02	Understanding how to live a decent and dignified life in the society.
			C03	Recognizing the importance of human relationships.
			C04	Applying Democratic and secular values in word and deed.
2	18-EVS-101	Foundation course in Environmental studies	C01	To understand the Environment, its nature and types of environment.
			C02	To study renewable and non-renewable resources
			C03	To study various kinds of ecosystems
			C04	To recognize the importance of Biodiversity
			C05	To study various kinds of Environmental pollutions and their effect on living organisms.
3	18-CSS-201	Foundation Course in Communication and Soft Skills Paper-I	C01	The students learn correct use of Tenses including concord of subject and verb.
			C02	The students will be able to use short form of questions i.e., Question Tags and conversation of sentences.
			C03	The students understand importance of listening and try to overcome the barriers of listening.
			C04	Students can enhance reading skills such as skimming and scanning besides non-verbal comprehension.
4	18-ICT-201	Foundation course in Information and Communication Technology	C01	The students know different basics of computers.
			C02	They are trained in the usage of MS-Word and its applications
			C03	Students prepare PPT by using MS-Power Point
			C04	Students are trained in the usage of MS-EXCEL.

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