W.e.f. AY 2019-20

Department of English
Osmania University

Course Structure under the Reorganized CBCS
(with effect from AY 2019-20)

Subject: English (First Language)

BA/BSc/BCom and other UG Courses

Course Objectives
The 20-credit, six-semester course seeks to enhance the English language skills of undergraduate students by

- Strengthening their grammar and vocabulary
- Improving their reading and writing skills
- Enhancing their listening and speaking skills
- Imparting to them important life skills and human values
- Encouraging them to think creatively and critically
- Exposing them to a variety of content-rich texts
- Expanding their emotional intelligence
- Developing gender sensitivity among them.

Course Outcomes
On successful completion of the 20-credit, six-semester course, an undergraduate student will be able to

- Read, understand, interpret a variety of written texts
- Undertake guided and extended writing using appropriate vocabulary and correct grammar
- Listen with comprehension and speak with confidence in both formal and informal contexts with reasonable fluency and acceptable pronunciation
- Become employable with requisite professional skills, ethics and values.

Credits, Syllabus, and Instructional Hours

Semester	**Number of Credits**	**Number of Units**	**Instruction (Clock hours per week)**
I	4	4	4
II	4	4	4
III	3	3	3
IV	3	3	3
V	3	3	3
VI	3	3	3
Total	**20**	**20**	**20**

తెలుగు విభాగము.

సంవత్సరము, సెమిస్టర్	పేపర్ శీర్షిక	విద్యార్థులు సాధించవలసిన సామర్థ్యాలు. (కీలక అంశాలు)
2015-16. (సంవత్సరం)	సాహితీ మంజీర	1. ప్రాచీన సాహిత్యంలో ఉన్న పద్య సౌరభాన్ని, రసానుభూతిని నేర్చుకుంటారు. 2. ఆదికవి నన్నయ గారి రచనా శైలిని వివిధ కవుల రచనా శిల్పాన్ని గురించి అవగాహన చేసుకుంటారు. 3. మానవీయ విలువలు గురించి తెలుసుకుంటారు. 4. తెలంగాణ ప్రాశస్త్యం తో కూడిన ఉద్యమ స్ఫూర్తిపై అవగాహన 5. విద్యార్థుల్లో వ్యక్తిత్వ వికాసంపెం ఆయాపాఠ్యల ద్వారా కలుగు కలుగుతుంది .
2015-16 (సంవత్సరం). వర్తమాన విషయాలపై అవ	సాహితీ కిన్నెర మక్కువను కలిగి ఉంటారు.	1. సంప్రదాయ సాహిత్యం పై 2. ఆధునిక సాహిత్యము లో ఉన్న అవగాహన కలుగుతుంది. 3. పరోపకారం కోసం త్యాగబుద్ధిని ఉండాలో తెలుసుకుంటారు. 4. వ్యాకరణ అంశాలపై అవగాహన కలిగి ఉంటారు.
	విద్యార్థులు ఎలా కలిగి	

పటణం కలిగి ఉంటారు.

5. ఉపవాచక బోధన ద్వారా విస్తార

2016-2021 సెమిస్టర్ -1 సాహితీ మంజీర సమస్త కోణాలను ప్రతిఫలించే

పెంపొందించుకున్నారు.

కోసం త్యాగబుద్ధి కలిగి

అవగాహన ఏర్పడుతుంది.

అవగాహన కలుగుతుంది

సంపూర్ణ మానసిక వికాసం కలుగును

1. విద్యార్థులు జీవితంలో

అంశాలపై అవగాహన

2. మహిళా సాధికారత , పరూప కారం

ఉంటారు.

3. పద్య లక్షణాలు, ఛందస్సు పై

4. తెలంగాణ ప్రాచీన వైభవం పైన

5. విద్యార్థుల జీవితాల్లో

సెమిస్టర్ -2. తెలుగు సాహితీ మంజీర

నేటి సాహిత్యం వరకూ విద్యార్థులు

నేపథ్యం పై కములు రాసిన ఉద్యమ

ఉంటారు.

పెంపొందించుకుంటారు

ఉదాహరణలు ఇవ్వగలరు

సొంతంగా రాయగలుగుతారు.

1. ప్రాచీన సాహిత్యం నుంచి

అవగాహన కలుగుతుంది.

2. తెలంగాణ రాష్ట్ర ఉద్యమ

పరిణామాలపై మక్కువను కలిగి

3. వివిధ అంశాలపై సృజనాత్మకతను

4. అలంకారాలు నేర్చుకుని వివిధ

5. ప్రతిపదార్థ తాత్పర్యాలు ను

సెమిస్టర్- 3 తెలుగు సాహిత్యం కింద్రాల కమలు రాసిన పాఠ్యభాగం ద్వారా

అవగాహన చేసుకుంటారు.

తిక్కనగారి భారత ద్వారా

ఉంటారు.

వ్యవస్థలో వచ్చిన మార్పులను

ఉండాలో తెలుసుకుంటారు

నిత్యజీవితంలో ఉపయోగిస్తారు.

పథకాల ద్వారా పెంపొందుతు0ది

1. ప్రాచీన సాహిత్యం వివిధ

ఆనాటి సామాజిక అంశాలను

2 ధర్మబద్ధంగా ఎలా జీవించాలో

తెలుసుకొని జీవితంలో ధర్మంగా

3. ప్రపంచీకరణ నేపథ్యంలో

గమనించి, నిత్యజీవితంలో ఎలా

4. వ్యాకరణ అంశాలు

5. వ్యక్తిత్వ వికాసానికి వివిధ

సెమిస్టర్ – 4 తెలుగు సాహిత్యం కింద్రాల పాఠ్యాంశ ద్వారా సూరన్న పండిత్య,

తెలుసుకుంటారు.

ఆర్థిక అసమానతలు, మా

తెలుసుకుంటారు.

గారు రాసిన నరుడ నేను

తెలుసుకుంటారు

గురించి అవగాహన ఏర్పడును

1. నారద గానమాత్సర్యం

ప్రతిభాపాటవాలను గురించి

2. శతక పద్యాల ద్వారా సామాజిక,

మానవీయ సంబంధాలను గురించి

3. ప్రజా కవి కాళోజీ నారాయణరామ

నరుడు నేను లో ఉన్న అసమానతలు,

4. చందస్సు, సామాజిక వ్యాసాల

5. తెలంగాణ గ్రామ నామాల

గురించి తెలుసుకొని కొత్త

అధ్యాయం వల్ల కలిగే ప్రయోజనాల

నామాలను రాయగలుగుతారు.

Course out comes
Department of History

Year/ Sem	Paper Title	Cours out comes
2016 I	History of India [From Earliest times to c. 700 CE)	After completing the course you will learn about ① Definitions, Relationship with other social sciences and Geographical features of India ② Indus valley civilization features and Early, Later vedic civilization ③ Jainism, Buddhism movements and mahajanapadas and Alexander's Invasions ④ mauryan dynasty (Ashoka Dhamma) Kushanas and satavahanas ⑤ Gupta Empire and Harshavardhana Achievements
II	History of India (c. 700 – 1526 CE)	① Rajputs society, Rise of Regional states (pallavas, chalukyas, Rashtrakutas cholas) ② Arab conquest of sind Ghaznavids Ghori and Foundation of Delhi Sultanate

		3) Bhakti and sufi movements 4) Kakatiyas Administration 5) Vijayanagara Empire and History of Bahamanis
Sem III	History of India [1526-1857 CE)	① mughal Dynasty Art & Architecture and Technology 2) Rise of Regional powers marathas and Rise of princeley states 3) Advent of European powers and British power 4) Three stages of colonialism and condition of peasantry - Famines 5) Decline of Rural cottage Industries & urban Handicrafts and 1857 Revolt
Sem IV	History of India [1858-1964 CE)	1) Introduction of western Education role of christian missionaries and Lord Ripon. 2) Socio-Religions reform movements [Brahma, Arya samaj)

		3) Rise of nationalism (INC, moderate, Extremist & Gandhian Eg) 4) Revolutionary movements and peasant, workers movements 5) partition of India - Republic of India, Sardar vallabhai patel and Jawaharlal nehru
Sem V	world History (DSC) papers [1453 - 1815 CE)	1) Geographical Discoveries and scientific Inventions impacton society. 2) Reformation movement and counter Reformation movement 3) Glorious Revolution 4) Industrial Revolution 5) American wars of Independence
Sem V	Elective papers History of Telangana [From Earliest Times to 1724 CE)	1) sources and Geographical Features of Telangana 2) The Age of satavahanas 3) kakatiyas and post kakatiyas 4) Qutb shahis of Golconda 5) Telangana from 1687 - 1784

Sem VI	(DSC) Paper World History [1815 - 1950 CE]	1) Fsench Revolutions and unification of Italy, Germany 2) First world war, Russian Revolution and League of nations 3) The Great Economic Depression Rise of Fascism, nazism and militar-sm 4) second world war, UNO and Role of Gandhi in India, mao 5) Cold war Impact on Asia and Role of mao Tse-Tung and Sum-jet-sen
Sem VII	Elective paper History of Telanga-na [1724 - 2014 CE]	1) Foundation of Asaf Jahi dynasty 2) 1857 Revolt and Adivasi Rebellion 3) Andhra maha sabha - Hydesabad state congress 4) Telangana peasants Armed stouggle Razakaas 5) Telangana Formation of various Associations.

Course out comes

Department of Economics

Year	Sem	Paper Title	Course out Come
2016			After completing the course you will learn about
	I	Micro Economics	1 Importance of Economics 2 Consumer Behavior (utility) 3 Supply and demand Analysis 4 Theory of production 5 production cost concepts.
	II	Macro Economics	1 National Income 2 Theories of output and Employment 3 Investment, Rate of Interest 4 Money (supply, Demand) 5 Inflation and Business cycles
	III	Micro Economics	1 Types of Revenue and Firm 2 Perfect competition and Monopoly 3 Monopolistic compt. and oligopoly 4 pricing strategies 5 Distribution and factor pricing
	IV	Public Economics	1 Importance of public finance 2 Public Expenditure 3 Taxation and public debt 4 Fiscal policy & Federal finance 5 Budget

Marks!

Year	Sem	Paper Title	Course outcome.
	V	Development Economics Paper-I	1 Economic development and growth 2 Factors in Economic development 3 Theories of Economic development 4 Theories of underdevelopment 5 Growth stategies.
		Paper-2, Indian Economy	1 Structure of the Indian Economy 2 Indian Agriculture 3 Indian Industry 4 Indian Services 5. planning in India.
	VI	Paper-I International Economics	1 Theories of International Trade 2 Terms of Trade and growth 3 Barriers to Trade 4 Quotas, Subsidies, tariffs 5 Balance of Payments, BOT
		Paper-II Demography	1 Importents of demography. 2 population trends in the 20th century 3 Fertility, 4 Sex Ratio, Aging of Population 5 Migration.

Year	Paper	Paper Title	Course out comes
2015	I	Micro Economics	1. Demand and supply analysis 2. Utility analysis 3. production function 4. Revenue and Expenditure. 5. classification of Market.
	II	Macro Economics	1 National Income concept and measures 2 Employment Theories 3 Investment, Rate of Interest 4 Money, Measured Money. 5 Inflation and Trade cycles.
	III	Indian Economy	1. Growth and Development 2. poverty, Unemployment. 3. plannings in India. 4. Agriculture Sectore. 5. Industrial and Service Sectore.
	VI	International Economics	1. International Trade 2. GATT and WTO. 3. International Banks (IMF, IBRD) 4. (FDI, FII) foreign Investments 5 Balance of payments (BOP) and BOT

Year	Sem	Paper Title	Cource out comes.
2019 to 2020	I	Micro Economics - I	1 Consumer Behaviour 2. production analysis 3. Cost and Revenue analysis 4. Market structure, imperfect comp 5. pricing strategies.
	II	Macro Economics	1. National Income 2. Theories of Income and employme 3. Investment, Rate of Interest 4. Supply of Money, Demand for money 5. Inflation and Trade cycles.

I	Political theory	(1) Scope and Importance of Political Science (2) Relation of Political Science with other Social Sciences (3) Approaches to the study of Political Science (4) Political Ideologies (5) Theories of origin of state
II	State Apparatus.	(1) About state, Nation and civil society. (2) Sovereignty and its Theories (3) Forms of Government (4) Political Concepts (5) Organs of Government.
III	Indian Government and Politics	(1) Nationalist Movement (2) Philosophical Foundations and Salient Features of the Indian Constitution. (3) Fundamental Rights and Directive Principles of State policy - Relation. (4) Statutory Commissions for Protection of Rights. (5) Social and Political movements in India.

Semester	Paper title	Course outline
III	Government and politics	After completing this paper students should learn about (1) Union Government (President, Vice President, Parliament, PM, and Supreme Court) (2) State Government (Governor, CM, Legislature, High Court) Union and state relations (3) Local self Governments Panchayat Raj Institutions, Urban self Governing bodies: 73, 74 Amendment Acts (4) Political Process: Political Parties Pressure groups, media, RTA (5) Electoral Politics: Election Commission Powers & Functions, Electoral Reforms.
V	Ancient & Medieval Political Thought.	(1) Nature and significance of Political Thought (Indian and western) (2) Ancient and Medieval Political Thought. (3) Early Modern western Political Thought (4) Social Contractualists: Hobbes, Locke, Rousseau. (5) Utilitarians: Bentham and Mill.
VI	Western and Indian Political Thought.	(1) Idealists: Hegel and Green (2) Marxist philosophy - I (3) Marxist philosophy - II (4) Indian Political Thought - I (5) Indian Nationalist Political Thought.

[illegible]

[illegible]

[illegible]

[illegible]	Paper name	Course outcome
		After completing this you learn about
I	Political Concepts, Theories and Institutions	(1) Scope, Importance of Political Science and Approaches in study of Political Science (2) Nation, State, Civil Society and Sovereignty. Theories of origin of state (3) Political Concepts, Ideology and forms of govt (4) Theory of Separation of Powers (5) organs of govt
II	Indian Govt and Polity	(1) Nationalist Movement and salient features of Indian Constitution (2) Fundamental Right and Directive Principle of State Policy (3) Union & State Governments (4) Statutory Commissions (5) Social Political Movements in India
III	Political Thought	(1) Ancient Philosophers (2) Medieval Indian Political thinkers (3) Western Philosophers (4) Contractualists (5) Radical Activists
IV	International Relations	(1) Nature, Scope & Importance of IR (2) I & II World Wars (3) International Relations Concepts and Economic Powers (4) IR Emerging Trends, Beyond Nations (5) International Security (6) Recent Trends in IR

Course Outcome
Dept of Political Science
I & II semesters (2019-20)

Semester	Paper Title	Course outcome
I	Understanding Political Theory	After completing this you learn about ① Nature, Imp and Evolution of Political Theory ② Theories of origin of state ③ Political value and Theoritical perspectives ④ Political Ideologies ⑤ Political Institutions and functions.
II	Western Political Thought	① Greek Political Thought ② Medieval and Early Modern Thought ③ Social contractualists ④ Utilitarian Thought ⑤ philosophy of Dialectics.

COURSE - OUTCOMES

DEPARTMENT OF BOTANY (2016 - 2017)

Year	Sem	paper title	Course outcome
2016-2017	I	Microbial diversity of lower plants	After completing the course you will learn as our 1) About cyanobacteria 2) About Bacterial diseases in crop plants & their control 3) plant diseases caused by virus & control measures 4) Economic Importance of Algae in Agriculture & Industry 5) About Mushroom cultivation
	II	Bryophytes, pteridophytes Gymnosperms & paleobotany	1) Evolution of sporophytes in Bryophytes 2) stelar evolution in pteridophyte 3) seed habits in pteridophytes 4) Econonomic importance of Gymnosperms 5) Fossils & fossiliyation 6) Geological time scale
	III	Taxonomy of Angiosperms & Medicinal Botany	1) Current Concepts in Angiosperm Taxonomy 2) various Families & their Economic Importance 3) Ethnomedicine 4) Traditional medicine 5) pharmacognosy

Year	Sem	Paper Title	Learning outcomes
	IV	Plant Anatomy, Embryology & Palynology	1) various plant tissues and tissue systems 2) Anamolous secondary growth of stems 3) Wood structure 4) Importance of Embryology 5) About polyembryony & Apomixis
	V	VI paper- cell Biology & Genetics	1) About DNA structure 2) About chromosomes 3) Regarding cell-divisions in plants 4) About Mendelism 5) Mutations in Gene
		VI paper — Ecology & Biodiversity	1) About Biogeochemical cycles 2) Ecological factors and its Ecological adoptations of plants 3) population & community ecology 4) About Biodiversity 5) Hot spots of India
		SEC-I : Nursery & Gardening	1) Building up of Infrastructure of Nursery & planning 2) Vegetable propagation 3) Gardening & its types 4) Study of Cultivation of different vegetables

Year	Sem	Paper title	Learning outcomes
	VI	VII paper - plant physiology	1) About absorption & transport of water in plants 2) About Mineral Nutrients 3) About photo synthesis mechanism in plants 4) Respiration in plants 5) physiology of flowering and photoperiodism
		VIII paper - Tissue culture & Biotechnology	1) Various types of culture in plants 2) About somatic hybrids & cybrids 3) About Biotechnology 4) Gene cloning & Gene libraries 5) production of transgenic plants
		SEC-II :- Mushroom culture Technology	1) About mushrooms & types 2) cultivation technology 3) Mushroom bed preparation 4) Storage & Nutrition 5) Food preparation from mushroom.

COURSE OUTCOMES

DEPARTMENT OF BOTANY (2019-2020)

Year	Sem	Paper title	learning outcomes
2019-2020	I	Microbial diversity & lower plants	1) Economic importance of Bacteria 2) Significance of Biofertilizers 3) Diseases caused by bacteria in plants and their control 4) Economic importance of lichens 5) Heterospory & seed habit in pteridophytes
	II	Gymnosperms, Taxonomy of Angiosperms & Ecology	1) Economic importance of Gymnosperms 2) Geological time scale 3) Importance of fossils 4) Systematic study & economic importance of different families 5) plant succession & serial stages

COURSE - OUTCOMES

DEPARTMENT OF BOTANY (2015-2016)

year	Sem	paper title	Course outcomes
2015-2016	Year-wise paper-I	Microbiology Algae Fungi Bryophyta. Pteridophyta, Gymnosperms Paleobotony	1) About Bacteria & Its diseases caused by Bacteria & control 2) About Cyanobacteria 3) About lichens 4) Economic importance of Gymnosperms 5) Geological time-scale & Importance of fossils
	paper-II	plant Anatomy, Embryology, Taxonomy Medicinal Botony	1) Wood structure 2) various plant tissues & Tissue systems 3) About polyembryony and Apomixis 4) Ethnomedicine & Traditional medicine 5) Systematic study & Economic importance of different families

Year	Sem	Paper title	Learning outcomes
	Paper-III	Cell Biology, Genetics Ecology & Biodiversity	1) About DNA structure 2) Mendel principles 3) Regarding cell-divisions in plants 4) About Biogeochemical cycles 5) About Biodiversity & Hotspots of India
	Paper IV	physiology, tissue culture Biotechnology, seed-Technology Horticulture	1) About absorption & transport of water in plants 2) About Mineral Nutrition 3) photosynthesis Mechanism in plants 4) Respiration in plants 5) About Biotechnology Gene cloning & Gene-Libraries.

DEPARTMENT OF PHYSICS(year wise)

SEMESTER/YEAR	**PAPER**	**COURSE OUTCOME**
1	Mechanics,Waves and oscillations	1.Nature of the rigid bodies 2.Nature of the Particles 3.Special theory of relativity 4.Generation of oscillations by the Bodies 5.Central forces
2.	Thermodynamics and Optics	1.Distribution of speeds among the Molecules 2.Characters of entropy in perfect Gas 3.Nature of materials at low Temperatures 4.Theory of Radiation 5.Modern communication systems
3.	Electricity and Magnetism Modern physics	1.Applications Electro statics 2.Applications of Magneto statics 3.Nature of Electromagnetic waves 4.characters of Nucleus 5.Character of solids 6.Different models for nucleus Nucleus analysis 7.Different of types nuclear forces

DEPARTMENT OF PHYSICS

SEMESTER/YEAR	**PAPER**	**COURSE OUTCOME**
1	Mechanics	1.Nature of the rigid bodies 2.Nature of the Particles 3.Special theory of relativity 4.Central forces in gravitational field
2.	Waves and oscillations	1.Generation of oscillations by the Bodies 2.Damped harmonic oscillations 3.Applications of Ultrasonics 4.Harmonic Oscillations
3.	Thermodynamics	1.Theory of gases 2.Thermodynamic potentials 3.Nature of materials at low Temperatures 4.Theory of Radiation
4.	Optics	1.Interference 2.Diffraction 3.Polarisation 4.Aberrations 5.Modern communication systems
5.	Electro Magnetism	1.Applications Electro statics 2.Magento statics 3.Nature of Electromagnetic waves 4.Electro magnetic Induction 5.Maxwell equations

	Solid state Physics	1.Crystal structures
		2.Diffraction of X rays
		3 .Magnetic Properties of Matter
		4.Elementary band Theory
		5.Lasers and Super conductivity
6.	Modern Physics	1.Atomic Spectra
		2.Wave particle duality
		3.Heisenberg Theory
		4.Nuclear Models
		5.Radioactivity
	Basic Electronics	1.Network elements
		2.Two port networks
		3.band Theory of Solds
		4.Bipolar Juntion Transistors
		5.Digital electronics

REVISED SYLLABUS

DEPARTMENT OF PHYSICS

SEMESTER/YEAR	**PAPER**	**COURSE OUTCOME**
1	Mechanics	1.Nature of the rigid bodies 2.Nature of the Particles 3.Special theory of relativity 4.Central forces in gravitational field
2.	Thermodynamics	1.Theory of gases 2.Thermodynamic potentials 3.Nature of materials at low Temperatures 4.Theory of Radiation
3.	Electro Magnetism	1.Applications Electro statics 2.Magento statics 3.Nature of Electromagnetic waves 4.Electro magnetic Induction 5.Maxwell equations
4.	Waves and Optics	1.Interference 2.Diffraction 3.Polarisation 4.Aberrations 5.Modern communication systems

DEPARTMENT OF CHEMISTRY

SEMESTER/YEAR	**PAPER**	**COURSE OUTCOME**
1	Chemistry-I	1.chemical bonding 2.structural theory in organic Chemistry 3.Gaseous state 4.Isomerism 5.Acyclic hydro carbons
2.	Chemistry- II	1.P-Block elements 2.Halogen compounds 3.Electro chemistry 4.Stereo isomerism 5.Hydroxy compounds
3.	Chemistry-III	1.F-block elements 2.Carboxylic acids 3.Thermodynamics 4.Phase Rule 5.Carbanions
4.	Chemistry-IV	1.Coordination compounds 2.Carbohydrates 3.Chemical kinetics 4.carbanions 2 5.Colloids
5.	Chemistry-V	1.Coordination compounds-2 2.Amines and cyanides 3.Chemical kinetics 4.Photo chemistry 5.Synthesis of organic compounds

	Chemistry –VI	1.Chromatography 2.Electro analytical methods 3.Colorimetry and Spectro Photometry 4.IR Spectro photometry 5.Solvent Extraction
6.	Chemistry-VII	1.Bio Inorganic chemistry 2.Amino acids and proteins 3.Thermodynamics 4.Mass spectroscopy 5.Hard and soft acids and bases
	Chemistry –VIII	1.Diseases 2.Enzymes and receptors 3.Synthesis and therapeutic activity of Drugs 4.Health promoting Drugs 5.Drugs acting on nervous system

REVISED SYLLABUS

DEPARTMENT OF CHEMISTRY

SEMESTER/YEAR	**PAPER**	**COURSE OUTCOME**
1	Chemistry-I	1.chemical bonding 2.structural theory in organic Chemistry 3.Gaseous state 4.Isomerism 5.Acyclic hydro carbons
2.	Chemistry-II	1.d-block elements 2.Carbonyl compounds 3.Electro chemistry 4.zero group elements 5.Stereo isomerism
3.	Chemistry-III	1.F-block elements 2.Carboxylic acids 3.Thermodynamics-1 4.Phase Rule 5.Carbanions-1
4.	Chemistry-IV	1.Coordination compounds-2 2.Carbohydrates 3.Chemical kinetics 4.carbanions 2 5.Colloid

DEPARTMENT OF CHEMISTRY (Yearwise)

SEMESTER/**YEAR**	**PAPER**	**COURSE OUTCOME**
1	Chemistry-I	1.chemical bonding 2.S-block elements 3.Gaseous state 4.Thermodynamics 5.Alkenes
2.	Chemistry- II	1.d-Block elements 2.Carbonyl compounds 3.Electro chemistry 4.Nano materials 5.Alcohals
3.	Chemistry-III	1.F-block elements 2.Pericyclic reactions 3.Asymmetric synthesis 4.Coordination compounds 5.Nitrohydro carbons
	Chemistry-IV	1.Diseases 2.Enzymes and receptors 3.Synthesis and therapeutic activity of Drugs 4.Health promoting Drugs 5.Drugs acting on nervous system

Department of Computer

B.Com - CA

Academic Year - 2018-19

Year/Sem	Paper Title	Course outcomes
I Yr - I Sem	1. Information Technology	1. Generations of computers 2. Learning about CPU 3. Software and hardware components. 4. Operating systems. 5. Networking systems.
I Yr - II Sem	1- RDBMS	1. Basic concepts of RDBMS 2. Normalization 3. Structure Query Language 4. transaction and Concurrency Management. 5. Distributed Server databases.
II Yr - III Sem	Programming in 'C'	1. History of 'C' language 2. 'C' - tokens 3. Control statements. 4. Arrays & strings 5. Unions.

II yr - IV sem

Objective Oriented Programming with C++

1. History of C++
2. Working with control Statements with loops
3. Functions Arrays and strings
4. Pointer Structures and unions
5. Polimorphism inheritance.

Department of Computer

B.Com - CA

Academic Year - 2018-19

Year/Sem	Paper Title	Course Outcomes
I Yr - I Sem	1. Information Technology	1. Generations of computers 2. Learning about CPU 3. Software and hardware components. 4. operating systems. 5. Networking systems.
I Yr - II Sem	1. RDBMS	1. Basic concepts of RDBMS 2. Normalization 3. Structure Query Language 4. transaction and concurrency Management. 5. Distributed Server databases.
II Yr - III Sem	Programming in 'C'	1. History of 'C' language 2. 'C' - tokens 3. Control statements. 4. Arrays & strings 5. Unions.

Department of Computers

(B.Comp - CS) AY - 2019-20

Year/Sem	paper title	Course outcomes
I Yr 1 Sem	1. FIT	1. Basic Knowledge on computers 2. Generations of computers. 3. Operating system 4. Software and Hardware Knowledge. 5. Networking Systems.
I Yr 2nd Sem	1. Programming with C++ and C++	1. History of C and C++ language. 2. C Tokens 3. Working with Control statements and loops. 4. Functions, Arrays, and strings 5. Polymorphism and data encapsulation.

year/sem	paper Title	Course outcomes
II nd yr - 3rd sem	Data Structure using C++	1. Introducing Data Structure 2. recursion, use of stacks, linked list 3. Trees, types of Trees 4. Sorting Techniques 5. Representation of Graphs
II nd yr - 4th sem	DBMS	1. Introducing DBMS, Applications 2. Relational query Languages (SQL) 3. Database design and E-R model 4. Join Expressions, integrity Constraints. 5. Transaction Management backup & recovery.

Department of Computer Science

Bsc - computer Science . AY - 2018-19

years/sem	Paper title	course outcomes.
I yr 1 sem	Programming in 'C'	1. History of 'C' language. 2. working with control statements 3. functions, Arrays and Strings pointers Overview 4. Structures and unions. 5. Templets
I yr 2nd sem	Programming in C++	1. History of C++ 2. Working with control statements and loops 3. functions, Arrays, Strings, pointers Structures and Unions. 4. Object Oriented Concepts. 5. Phalmorphism, inheritance 6. Date Encapsulation.

Government Degree College
Narsapur,Medak.Dist
Deportment of Mathematics

Year : 2015-16

Year	Paper	Subject	Course out comes
First year	1	**1.Differential Equations** **2.Solid Geometry**	After studying this course, you should be able to:
			1.Differential equations & their methods
			2.Homogenious & Non Hmogenious D.E's
			3.The Plane & Line
			4.The Cone,Cylinder,Curcular Cylinder
			5.The Conicoid
Second year	2	**1.Real Analysis** **2.Group Theory & Ring Theory**	After studying this course, you should be able to:
			1.Sequences&Series Thier types Limits&Continuity
			2.Mean Value Theorems
			3.Groups,Subgroups,Co-sets,Normal Subgroups
			4.Homomorphism,Permutation Group&Cyclic Groups
			5.Rings,Subrings,Quotientring,Ideals & Polynomials
Final Year	3	**1.Linear Algera** **2.Vector Calculus**	After studying this course, you should be able to:
			1.Eigen values,Eigen vectors
			2.Inner Product Space
			3.Multiple Integrals-Line Integral,Surface Integral&Volume inegral
			4.Vector Differentiation
			5.Vector Integration
	4	**Integral Transforms**	After studying this course, you should be able to:
			1.Fourier Series-Other Forms
			2.Laplace Transforms-Inverse Laplace Transforms
			3.Convolution theorem,Heaviside's expension formula
			4.Fourier Transforms
			5.Application of Laplace&Fourior Transforms

Government Degree College
Narsapur,Medak.Dist
Deportment of Mathematics

Year : 2016-17 to 2020-21 Batches

Semester	Paper	Subject	Course out comes
I	1	**Differential Calculus**	After studying this course, you should be able to:
			1.Successive differentiation
			2.Mean Value Theorems
			3.Curvature and Evolutes
			4.Partial differentiation-Homogeneous functions
			5.Maxima and Minima of the functions-Asymptotes
II	2	**Differential Eqution s**	After studying this course, you should be able to:
			1.Differential Equations of first order and first degree
			2.Differential Equations of first order but not first degree
			3.Higher order differential equations
			4.Method of undetermined coefficients-Variation of parametres
			5.Partial differential equations
III	3	**Real Analysis**	After learning this course, you should be able to:
			1.Sequences-Types & Limit of sequences
			2.Subsequences-Lim sup's & Lim inf's-Series
			3.Sequences and Series of Functions
			4.Integration-The Riemann Integral
			5.Fundamental Theorem of Calculus
IV	4	**Algera**	On Successful completion of this course, you should be able to:
			1.Groups-Subgroups-Cyclic Groups
			2.Permutations-a Check Dgit Scheme Based on D5
			3.Normal Subgroups-Isomorphisms
			4.Rings-Integral Domains-Factor Rings-Ideals
			5.Ring Homomorphisms

V	**5**	**Linear Algebra**	After Completion of this course, you should be able to:
			1.Vector Spaces and Subspaces
			2.The Dimension of Vector Space
			3.Rank-Change of Basis
			4.Eigenvalues and Eigenvectors
			5.Diagonalization
	6(A)	**Solid Geometry**	After learning this course, you should be able to:
			1.Undrestand the beautiful interplay between algebra and goemetry
			2.Sphere-Radical Plane
			3.Cones and Cylinders
			4.The Right Circular Cone & Cylinder
			5.The Coniciod-Envelop[ing Cone and Cylinder
VI	**7**	**Numerical Analysis**	After learning this course, you should be able to:
			1.Importance of the subject
			2.Solutions of Equations in One Variable-Methods
			3.Interpolation and Polynomial Approximation
			4.Divided Differences-Hermite Interpolation
			5.Numerical Differentiation and Integration
	8(B)	**Vector Calculus**	After learning this course, you should be able to:
			1.Line Integrals
			2.Surface Integrals
			3.Volume Integrals
			4.Divergence of a vector field
			5.Relation between curl and rotation

Government Degree College
Narsapur,Medak.Dist
Deportment of Mathematics

Year :2019-2020

Semester	Paper	Subject	Course out comes
I	1	**Differential and Integral Calculus**	After studying this course, you should be able to:
			1.Partial differentiation
			2.Theorem on Total Differentials
			3.Maxima and Minima of the functions
			4.Curvature and Evolutes
			5.Volumes and Surfaces of Revolution
II	2	**Differential Eqution s**	After studying this course, you should be able to:
			1.Differential Equations of first order and first degree
			2.Differential Equations of first order but not first degree
			3.Aplications Of First order differential equations
			4.Higher order differential equations-Method of undetermined coefficients
			5.Method of Variation of parametres-Partial differential equations
III	3	**Real Analysis**	After the completion of this course, you should be able to:
			1.Sequences-Types & Limit of sequences-Subsequences-Lim sup's & Lim inf's-Series
			2.Continuity-Limit of Functions
			3Differentiation-Mean Value Theorems
			4.Integration-The Riemann Integral
			5.Fundamental Theorem of Calculus

IV	**4**	**Algera**	On Successful completion of this course, you should be able to:
			1.Groups-Subgroups-Cyclic Groups
			2.Permutations-a Check Dgit Scheme Based on D5-Isomorphisms
			3.Normal Subgroups and Factor Group-Rings-Integral Domains
			4.Ideals-Factor Rings
			5.Ring Homomorphisms
V	**5**	**Linear Algebra**	After Completion of this course, you should be able to:
			1.Vector Spaces and Subspaces
			2.The Dimension of Vector Space
			3.Rank-Change of Basis
			4.Diagonalization-Eigenvalues and Eigenvectors
			5.Orthogonality and Least Squares
VI	**6(A)**	**Numerical Analysis**	After learning this course, you should be able to:
			1.Importance of the subject
			2.Solutions of Equations in One Variable-Methods
			3.Interpolation and Polynomial Approximation-Divided Differences
			4.Numerical Differentiation and Integration
			5.Numerical Solutions of Ordinary Differential Equations

Year wise Syllabus
Department of Commerce

Year	Paper title	Course outcomes
1st Year	1. Financial Accounting	1. Introduction to Accounting 2. Subsidiary Book and Bank reconciliation Statement 3. Trial Balance final Accounts Errors and rectifications 4. Consignment and joint venture 5. Depreciation provisions and Reserves.
	2. Business Economics	1. Introduction. 2. Demand, Supply and Market Equilibrium 3. production and costs 4. Market structure and factors of production 5. National Income, trade cycles and International trade.
	3. Business Organisation & Management	1. Fundamental concepts. 2. Form of Organisation, sole proprietorship, partnership and joint Hindu family. 3. Joint stock company. 4. Management planning and decision making. 5. Organising.

II nd Year

1. Advanced Accounting
   1. Accounts from Incomplete records- Hire purchase and Installment purchase System
   2. Branch and Departmental Accounts.
   3. Accounting of Non-Profit organizations.
   4. Partnership Accounts.
   5. Company Accounts.

2. Business Statistics
   1. Introduction to statistics.
   2. Measures of central Tendency
   3. Measures of Dispersion and Skewness.
   4. Measures of Relation
   5. Analysis of time series & Index numbers.

3. Financial Services Banking & Insurance
   1. Introduction to financial Services.
   2. Banking System and its Regulation.
   3. Banker and Customer, Loans and advances.
   4. Financial Markets & Services
   5. Types of Insurance and its regulation.

4. Taxation

1. Introduction of Income Tax
2. Income from Salary
3. Depreciation
   Income from business & profession
   capital gains
4. Income from other source.
5. Indirect Taxes.

Year 1. Corporate Accounting

1) Accounting standard - valuation of Goodwill and shares.
2. Company final Accounts - Issue of Bonus shares and Profit Prior to incorporation.
3. Amalgamation and Internal Reconstruction.
4. Bank Accounts.
5. Accounts of Insurance Companies.

2. Business Law

1. Contract Act
2. Discharge of a contract
3. Sale of Goods Act
4. Consumer Protection Act and Intellectual property Rights.
5. Company Law.

3. Auditing

1. Introduction to Auditing.
2. planning of Audit and Control.
3. Vouching and Audit of financial statement
4. Audit of Institutions.
5. Report writing.

4. Cost Accounting

1. Introduction.
2. Elements of Cost
3. Methods of costing
4. Marginal Costing and Break even Analysis
5. Standard Costing and variance Analysis.

only Comp). 5 Management Accounting & Control.

1. Introduction.
2. financial statements Analysis
3. Ratio Analysis
4. Funds flow & cash flow Analysis.
5. Budgetary Control.

(Gen.) 6. Cost and Management Accounting.

1. Introduction.
2. Elements of Cost
3. Methods of costing.
4. Costing techniques for Decision making
5. Financial Statement Analysis

(General) 7. Advanced Corporate Accounting

1. The Accounts of Holding - Companies
2. Accounts of electricity companies
3. Lease Accounting
4. Human resource Accounting
5. Liquidation of companies
6. Social Responsibility Accounting
7.

(General) 8. Management Accounting

1. Introduction
2. Financial Statement Analysis
3. Ratio-Analysis
4. Funds flow & cash flow Analysis
5. capital budgeting

Academic year - 2019-20

Department of Commerce

Year/Sem	paper title	course out comes.
I Year / I Sem	1. Financial Accounting - I	1. Accounting Process. 2. Subsidiary Books. 3. Bank Reconciliation Statement 4. Rectification of Errors And Depreciation 5. Final Accounts.
	2. Business Organisation And Management	1. Introduction and forms of Business organisation. 2. Joint Stock Company. 3. Introduction to functions of Management 4. planning and Organising 5. Authority, coordination and control.
II Sem	1. Financial Accounting - II	1. Bills of Exchange. 2. Consignment Accounts. 3. Joint Venture Accounts. 4. Accounts from incomplete Records. 5. Accounting for Non-profit Organizations.

2. Business Laws

1. Indian Contract Act.
2. Sale of Goods Act and Consumer Protection act.
3. Intellectual property Rights.
4. Management of Companies and Meeting.
5. Winding up.

III^rd Sem

1. principles of Insurance (SEC)

1. Risk management And insurance & insurance Terminology
2. Insurance Contract and Insurance products.

2. Advanced Accounting

1. Partnership Accounts-I
2. partnership Accounts-II
3. Issue of shares, Debentures, Underwriting And Bonus Shares
4. Company final Accounts And Profit prior to Incorporation
5. Valuation of goodwill and Shares.

3. Business statistics-I

1. Introduction
2. Diagrammatic and Graphic Presentation.
3. Measure of central Tendency
4. Measures of Dispersion, Skewness and Kurtosis.
5. Correlation.

IV Sem. 1. Practice of Life and General Insurance

1. Premium calculation And Policy Documents.
2. Settlement of claims Risk & Underwritings and Financial Planning & Tax saving.

2. Income Tax

1. Introduction.
2. Income from Salaries.
3. Income from House property
4. Profits and Gains of Business or profession.
5. capital gains and Income from Other sources.

3. Business Statistics-II

1. Regression.
2. Index numbers.
3. Time Series.
4. Probability.
5. Theoritical Distributions.

V Sem. 1. Business Economics.

1. Introduction.
2. Demand Analysis.
3. Supply analysis.
4. Production analysis.
5. Cost And Revenue Analysis.

2. cost Accounting

1. Introduction
2. Material
3. Labour and Overheads.
4. Unit and Job costing.
5. Contract and Process costing.

3. Computerized Accounting

1. maintaining Charts of Accounts in ERP
2. Maintaining Stock Keeping Unit
3. Recording day transaction in ERP.
4. Accounts Receivable and payble management
5. MIS reports.

VI Sem. 1. Research Methodology & project Report.

1. Introduction measurement and Hypothesis testing
2. parametric and Non parametric Tests and Research method
3. Guidelines for project Work.
4. Organisation of project Report
5. Technical Specification of the project.

2. Cost control and management Accounting

1. Introduction to management Accounting & marginal costing.
2. Budgetary control and standard costing.
3. Techniques of Financial Statement Analysis.

4. funds flow analysis.
5. cash flow analysis.

3. Theory and practice of GST.

1. Introduction GST
2. Getting started with GST
3. Recording Advanced GST Adjus'
- ment and return filing.
4. Getting Started with GST
5. Recording Advanced Entries
And migration to ERP.

Academic year – 2016-17 Course outcomes

Department of Commerce

Years/ Sem	Paper Title	Course out comes
I Sem B.Com- Comp & General)	1. Financial Accounting-I	After completing the course, you will learn about 1) Accounting process 2) Subsidary books 3) Bank Reconciliation statement 4) Rectification of error and Depriciation 5) Final Accounts.
	2. Business Economics.	1) Introduction of Business Economics 2) Demand Analysis 3) Supply Analysis 4) Production Analysis 5) Cost and Revenue Analysis
	3. Business Organization	1) Fundamental Concepts 2) Business Organization 3) Formation of Joint stock company 4) Process of finance 5) Stocks Exchange and Mutual funds

Paper Title	Course out comes
Semester – II	
B.Com – Comp & General) 1. Financial Accounting-II	1) Bills of Exchange 2) Consignment Accounts. 3) Joint Venture Accounts 4) Accounts from Incomplete records 5) Accounting for Non-profit Org
2. Managerial Economics	1) Nature and Scope of Managerial Economics 2) Demand Forecasting. 3) Market Analysis. 4) Macro Economics for Managers. 5) Fiscal and Monitory policy.
3. Principles of Management	1) Introduction 2) planning 3) Organizing 4) Delegation and Decentralization. 5) Co-ordination and Control.

II year
III Com

1. Advance Accounting

1) Partnership Accounting - I
2) Partnership Accounting - II
3) Issue of shares, Debentures, underwritting, Bonus shares.
4) Company final Accounts and profit prior to Incorporation.
5) Valuation of goodwill and Shares.

2. Income Tax - I

1. Introduction
2. Agriculture Income
3. Income from Salary.
4. Income from House property.
5. profit or gains of Business and profession.

3. Business Statistics - I

1. Introduction.
2. Diagrammatic and Graphic presentation.
3. Measures of Central Tendency.
4. Measures of Dispersion skewness and Kurtosis
5. Correlation.

4. Principles of Insurance. (SEC)

1. Risk Management and Insurance & Insurance Terminology
2. Insurance contract and Insurance products.

For General

1. Entrepreneurship Development and Business Ethics
   1. Introduction
   2. Entrepreneurial Development
   3. Project and MSMEs
   4. Entrepreneurial Development policies and programmes
   5. Business ethics

II Year
IV Sem

1. Corporate Accounting
   1. Company Liquidation
   2. Amalgamation AS-14
   3. Internal Reconstruction and Acquisition of Business
   4. Accounts of Banking companies.
   5. Accounts of Insurance companies and Insurance ~~Claims~~ claims.

2. Income Tax - II
   1. Capital Gains
   2. Income from other Sources.
   3. Clubbing and Aggregation of Income.
   4. Assessment of Individuals.
   5. Assessment & procedure.

3. Business Statistics - II
   1. Regression
   2. Index Numbers.
   3. Time Series.
   4. Probability
   5. Theoretical distribution

4. Practice of Life Insurance.
(SEC)

1. Practice and plan of life Insurance
2. Premiums, Bonus and Annuities.
3. Group Insurance and limited life Insurance policies.
4. Policy Document and Assignment Nomination and Surrendal of policies.
5. Policy Claims.

For General

5. Financial Statement Analysis

1. Introduction
2. Techniques of financial statement Analysis
3. Ratio Analysis.
4. Funds flow Analysis.
5. Cash flow Analysis.

III yr
V th sem

1. Cost Accounting

1. Introduction
2. Material
3. Labour and Overheads
4. Unit and Job costing
5. Contract & process costing.

2. Business Law

1. Introduction
2. Contract Act 1872
3. Sale of goods Act 1930
4. Trade Marks, patent, copyrights and Intellectual property rights
5. Information Technology act and Environment protection act.

3. Banking theory and practice

1. Introduction.
2. Reserve Bank of India
3. Types of Banks.
4. Banker and Customer relationship.
5. Negotiable Instruments.

4. Practice of General Insurance

1. General Insurance policies
2. Underwriting premium Calculations Reserves and Accounting.

5. Introduction to Indian Economy
(SCC)

1. Structure of the Indian Economy.
2. Policy aspects of Indian Economy.

6. Computerised Accounting

1. Maintaining Chart of Accounts in ERP
2. Maintaining of Keeping units
3. Recording day to day transaction in ERP
4. Accounts Receivable and payable Management.
5. MIS Reports.

For General

7. Accounting standard

1. Introduction.
2. AS- 1, 2, 3, 4, 5, 7 and 9
3. AS- 10, 11, 12, 13, 14, 15, 16, 17
4. AS - 18, 19, 20, 21, 24, 26, 29
5. Introduction Ind AS

8. Auditing

1. Introduction
2. Auditor and Execution of Audit
3. Internal control, Internal check and Internal Audit
4. Vouching
5. Verification and Valuation of Assets.

III yr
IV sem

1. Theory and Practice of GST

1. Introduction to GST
2. Getting started with GST
3. Recording Advanced entries GST adjustments and ~~writing~~ returns filling.
4. Getting started with GST (Service)
5. Recording Advanced entries and Regression to ERP

2. Company law

1. Introduction ~~Incorporation~~ of companies
2. Management of companies.
3. Company Secretary.
4. Company meetings
5. Winding up.

3. Managerial Accounting

1. Introduction
2. Marginal costing
3. Decision making
4. Budget and Budgetary control
5. Standard costing and Variance Analysis.

4. Commerce Lab

1. Basic business Documents
2. finance banking and Insurance Documents
3. Documents on Incorporation a Company.
4. Documents of Taxation.
5. Business Charts.

5. Regulation of Insurance Business (SEC)

1. Insurance Legislation in India.
2. Policy Holders rights of Assainment Nomination and Transfer

6. Sectors of Indian Economy

1. Agriculture in India.
2. Industries And Tertiary Sector in India.

General

7. Financial Institutions & Markets

1. Indian financial System
2. financial institutions.
3. Money Market.
4. Debt Market
5. Equity Market.

8. Advanced corporate Accounting.

1. Holding companies.
2. Electricity companies.
3. Accounting for price level Changes.
4. Lease Accounting.
5. Human resource Accounting & Social Responsibility Accounting