Telugu Course out come

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
1	Second language 103- Semester-I	Sahiti Manjeera	5	• Student will be able to explain the characteristic features of three famous telugu classical poets namely Nannayya, Addanki Gangadar, and Palkuriki Somanathudu belonging to 11th to 18th Century AD. • Student will be able to explain characteristic features of famous modern Telugu poets namely Gurajada AppaRao, Gurram Jashuva, Palla Durgaiah and Sri Sri. • Student will be able to comprehend the characteristic features of Novel a literary genre. The novel depicts life history of Rudrama Devi, queen of Kakatiya Dynasty and prevalent literary, socio economic and historical context of the period to 13th Century AD. • Student will be competent to use different tools of telugu grammar in literary writing.
2	Second language 203- Semester-II	Sahiti Manjeera	5	• Student will be able to explain the characteristic features of three famous telugu classical poets namely Potana, Molla, Brithruhari. • Student will be able to explain characteristic features of famous modern Telugu poets namely Dasarathi Krishnamacharyulu, Jnanapeet Awardee Dr.C.Narayana Reddy, Pervaram Jagannatam and Koumidi • Student will be able to comprehend the characteristic features of Short Stories a literary genre. The short stories depicts prevalent literary, socio economic and historical context.

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
3	Second language 303- Semester-III	Sahiti Kinnera	5	• Student will be able to explain the characteristic features of three famous telugu classical poets namely Tikkana, Gona Budha Reddy, Srinathudi belonging to 11th to 18th Century AD. • Student will be able to explain characteristic features of famous modern Telugu poets namely Vanamamalai Jagannathacharyulu, Ambati Laxminarsimha Raju, Boi Beemanna. • Student will be able to comprehend the characteristic features of Drama "Chali Cheemalu" a literary genre. • Student will be competent to use Alankaaras a tool of telugu grammar in literary writing.
4	Second language 403- Semester-IV	Sahiti Kinnera	5	• Student will be able to explain the characteristic features of three famous telugu classical poets namely Pingali Soorana, Maringanti Narasimhacharyulu, Dharmapuri Sheshappa. • Student will be able to explain characteristic features of famous modern Telugu poets namely Kaloji Narayana Rao, Devarakonda Balagangadara Tilak, Mukurala Rama Reddy. • Student will comprehend the construct of Essay Writing and Short Stories • Student will be able to analyse the characteristics of Telugu Poetry by using Chandassu a Grammer tool of telugu literature.

Department of English			
Semester I			
Course Code	**Course Name**	**Credits**	**Course Outcome**
BA 129,EPCA 352,HECA 555BSC 445,441(MPC),468(MPCS)BCOM 401,402BCOM 401,402	• The Curb in the sky - James Thurber • Happy People - William Ralph Inge • A Psalm of life - Henry Wardsworth Longfellow • The dear departed- Stanley Houghton • Vocabulary • grammar • pronunciation • spelling • punctuation • conversation • reading passage • soft skills and • value orientation	4	☐ Read,understand,interpret variety of written text. ☐ Strengthning their grammar and vocabulary ☐ Enhancing listening and speaking skills ☐ Exposing to variety of content-rich text. ☐ Holistic Development by soft skills and value orientation
Semester II			
BA 129,EPCA 352,HECA 555BSC 445,441(MPC),468(MPCS)BCOM 401,402BCOM 401,402	• A Visit of Charity - Eudora Welty • Banaras - Aldous Huxley • Stanzas written in dejection near naples - P.B.Shelley • Julius caesar - Shakespeare Retold • Vocabulary • Grammar • Pronunciation • Spelling • Punctuation • Conversation • Reading passage • Soft skills • Value orientation	4	☐ Listen the comprehnsion and speak fluently ☐ Imparting life skills and human values ☐ Developing gender sensitivity among them
Semester III			
BSC 445,441(MPC),468(MPCS)BCOM 401,402BCOM 401,402	• Life -Charlotte Bronte • A wrong man in workers paradise - Rabindranath Tagore • Punishment in kindergarden - Kamala Das	3	☐ Improving reading and writing skills ☐ Undertake guided and extended writing by appropriate vocabulary and grammar ☐ Speak with confidence in formal and informal contexts.

	• Toasted english - R.K.Narayan • As I grew older - Longston Hughes • Grammar of anarchy - B.R.Ambedkar • Vocabulary • Grammar • Essay writing • Media Reports • Progress Reports		
Semester IV			
BSC 445,441(MPC),468(MPCS)BCOM 401,402BCOM 401,402	• The Flower - Alfred Tennyson • The kite maker - Ruskin Bond • Ecology - A.k.Ramanujan • What's the language of the future? - Henry Hitchings • Television - Roald Dahl • The fringe benefits of failure and the importance of imagination - J.K.Rowling • Book review or film review • Curriculum vitae • Vocabulary • Grammar	3	☐ Encourage them to think critically and creatively ☐ Expanding their emotional intelligence ☐ Developing employable skills with professional skills ethics and values.

Department of History

Semester I

Course Code	Course Name	Credits	Course Outcome
DSC101	History of India(From Earliest times to 700CE)	5	Able to understand cronology,nature and scope of Indian History.
			To know what is History? And sources, history and its relationship to other social science.
			Understand the golry of Indian History in the age of Harappan civilization.
			Compare to history of early and later vedic period.
			Understand the philosophy of janisim and Buddism.
			Know about the Administrative system of Mouryan dynasty.

Semester II

Course Code	Course Name	Credits	Course Outcome
DSC202	History of India(From 700 to 1526CE)	5	Understand the socio-economy and culture of Rajputs.
			Compare to local self government of Cholas and present local bodies system.
			Understand the administrative setup of Sultanate from central to local level.
			Understand the preachings of Bhakti and Sufi saints and emergence of composite culture.
			Grasp territorial expansion of kakatiya period.
			Understand the art and architecture,literature of Vijayanagaras.

Semester III

Course Code	Course Name	Credits	Course Outcome
DSC301	History of India(1526-1857CE)	5	Able to Understand the political situation of India at the time of Babar's Invasion.
			To Know the administrative system of Sher Shah.
			Understand the political scenario of the Maratha Power.
			Assess the circumstances under which rise of the Peshwas took place.
			Understand the threee stages of colonialism and Land Revenue systems.
			Analyze the importance of 1857 Revolt, Its causes and results.
SEC-I	Historical and Cultural Tourism	2	Able to understand the concept,nature and scope of Tourism.
			To learn about the Eco-Tourism and Cultural Tourism.
			To Compare the difference between Wild-life sancturies,National parks and Tiger reserve projects.
			To Visit the important Historical and Tourist places.

Semester IV

Course Code	Course Name	Credits	Course Outcome
DSC401	History of India(1858 - 1964 CE)	5	To know the importance of Western Education in India.
			Able to Understand the Socio-religious reform movement in India.
			To Understand the early political awakening in Indian freedom struggle.
			Compare the various phases of the Indian National Movement.
			To Analyze the role of Mahatma Gandhi in Indian National Movement.

			Understand the evolutionary process of Constitutional developments.
SEC-II	Archives and Museums	2	Able to understand the scope of Archieves,preservation and conversation.
			To know the different types of National and State museums.
			To visit National archives and National Museums.
			To Participate in the process of Manuscripts preservation.

Semester V

DSC501	History of the modern World(1453-1815CE)	4	Able to understand the importance of Geographical Discoveries.
			To know the Impact of Renaissance on Europe.
			To Understand the comparision of Reformation movement and Counter Reformation.
			Analyze the causes for emergence of Nation states.
			Analyze the how the Feudalism come to end in Europe.
			To learn about the causes and results of French Revolution.
DSE501(A)	History of Telangana(From Earliest times to 1724CE)	4	To perceive various sources to study of Ancient Telangana.
			Able to Understand the History of Sathavahanas,Ikshvakus,Vishnukundis and Chalukyas.
			Understand the Society,Economy and Irrigation system of Kakatiyas.
			To know the system of Trade and Commerce during the period of Qutubshahis of Golkonda.
			To Understand the Administrative system of Qutubshahis.
GE	Indian National Movement(1857-1947CE)	4	To Identify the importance and legacy of Freedom movement.
			To Analyze the Renaisance and Social reform movement in India.
			To Understand the early political awakening in Indian freedom struggle.
			To Understand the difference between Moderates ,Extremists and Revolutionaries.
			To Grasp the details of Freedom Movement under the Gandhi's leadership.

Semester VI

DSC Paper VI	History of the Modern World(1815-1950CE)	4	Able to Understand the Fall of Naepolean and how Meternic dominated the European Politics.
			Compare the significance of the Unification movements in Italy and Germany.
			To Understand the factors responsible for the outbreak of world wars.
			To Understand the Rise of Fascism in Italy and Nazism in Germany.
			To Know the Aims and Achievements of United Nations Organization.
DSE Paper IIA	History of Telangana(1724-2014CE)	4	Able to Understand the Salarjung Reforms.
			To know the social,cultural and political awakening in Telangana.
			To Understand the causes for Anti-Nizam and Anti-Feudal Struggles.
			Comprehend the early phase of Telangana Movement.
			To Analyze the which factors led to the formation of Telangana state June 2014.

Economics

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
1	Discipline Specific Course (DSC) 101	Micro Economics	5	Define the consumer behavior
				Explain production function and process of decision making relating to production by a firm and industry in different conditions
				Integrate the concepts of cost and revenue and analyze the status of firms
				Classify types of market structures- Process of determination of prices under different market structures
				Analyze the decisions of firms aimed at realizing objectives
				Evaluate the pricing strategies of firms under different market conditions
2	Discipline Specific Course (DSC) 201	Macro Economics	5	Identify different structures of an economy and describes how the income flows among different sectors of the economy.
				Explain theorems of Income and employment and illustrate the effective demand – Interpret the determinants of income and employment in an economy
				Understand the concepts of investment and capital –Determinants of investment and capital
				Define what is money and classify its functions – Relate theorems of Supply of money with indian money supply
				Analyze the causes and effects of inflation. Suggest solutions to control money
				Integrate various parameters and analyse the macro economic status of Indian economy

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
3	Discipline Specific Course (DSC) 301	Statistics for Economics	5	Define the basic concepts of statistics -Recognise different methods and tools for presentation of data
				Classsify measures of central tendancy and dispersion and apply tools to analyse the behaviour of variables
				Use the corelation and regression tools to analyse the relationship between different variables.
				Understand concepts of index numbers - Able to construct index numbers using different methods.
				Analyze the behaviour of various variables over a period of time using different statstical methods.
				Able to apply stastical methods and tools to appraise performance of different economic variables in a phenomena
4	Discipline Specific Course (DSC) 401	Indian Economy	5	Recognise the structure of Indian economy- Resource base -Size, composition of population and anlayse its effects on economy
				Explain the role and importance of Agriculture in Indian Economy - Analyse growth and changes indian Agriculture. Evaluate the problems of Indian Agriculture sector
				Explain the importance of Industry and analyse the trends in Industrial production of Indian Economy - Analyse the impact of Industrial policy resolutions
				Define what is NITI Aayog and explain its structure, composition, functions and objectives - Distinguish between Planning commission and NITI Aayog.
				Explain and analyse the role of service sector in Indian economy - Trends of service sector growth and contribution of important sectors
				Evaluate the impact of economic reforms liberalization, Privatization and Globalisation

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
5	Discipline Specific Course (DSC)	Development Economics	5	Define the concepts of Economic Growth and Development - Construct ther measurement of Economic Development
				Interpret the role of State and market in economic development
				Relate the factors that affect economic development -
				Distinguish between developed and developing countries .Understand theories of Demographic transition
				Interpret theories of Economic development
				Interpret theories of Under Development
6	Discipline Specific Elective (DSE)	Indian Economy	5	Describe the structure of Indian economy- Resource base -Size, composition of population and anlayse its effects on economy
				Explain the role and importance of Agriculture in Indian Economy - Relate the growth and changes indian Agriculture. Evaluate the problems of Indian Agriculture sector
				Describe the importance of Industry and analyse the trends in Industrial production of Indian Economy - Analyse the impact of Industrial policy resolutions
				Evaluate planning in India- Five year plans objectives, strategies. Evaluate the performance of Indian planning
				Analyse the role of service sector in Indian economy - Trends of service sector growth and contribution of important sectors
				Evaluate the impact of economic reforms liberalization, Privatization and Globalisation

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
7	Discipline Specific Course (DSC)	International Economics	4	Explain the classical and modern theories of International trade absolute advantage and comparitive advantage
				Describe the role of international trade in Economic Growth. Analyse how the terms of trade change and effect economies
				Explain different barriers to internatinal trade and analyse how the quantitative and qualitative restrictions on trade impact economies
				Construct Balance of Payments and analyse the causes for disequilibriam in Balance of Payments and suggest measures to correct it
				Evaluate composition and direction of international trade of india. Evaluate the export and import policies of Indian Economy
				Integrate and evaluate the status of international trade of Indian Economy in the present context
8	Discipline Specific Elective (DSE)	Demography	4	Describe the structure and composition of population of an economy. Analyse the trends in the light of theories of population
				Analyse population trends in Twentieth century. Evaluate the factors that determine the charecteristics of population
				Interpret the trends in fertility rates of developed and developing countries.
				Explain various methods of population projection
				Explain various streams of migration- Trends of urbanisation in developing and developed countries
				Analyse the trends in rates of growth of indian population - Evaluate the strategies of populatoin control in India

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
9	Skill Enhancement Course -I (SEC-I)	Rural Development	2	Define, distinguish and corelate the Rural development and Agricultural DevelopmentAnalyse the trends in the light of theories of population
				Analyse the role of Non-Governmental Agencies (NGOs) in Rural Development
				Interpret the trends in fertility rates of developed and developing countries.
				Integrate the rural farm and non farm sectors. Explain the decentralised planning and participatory development Describe the role of panchayats in decentralised rural devlelopment
				Explain the role of NABARD in Agriculture and Rural Development
				Identify the constraints of micro enterprises in rural areas, credit need for rural non-farm sector and show how the SHG can be instrumental in supply rural credit
10	Skill Enhancement Course -III (SEC-III)	Data Analysis	2	Identify the method of data collection Apply the data management tools R/Eviews/SPSS/MS Excel
				Interpret and use the data of Central Statistical Office (CSO), National Accounts Statistics, Industrial Statistics, Reserve Bank of India
11	Skill Enhancement Course -IV (SEC-IV)	Entrepreneurship and Development	2	Identify the basic features of Entrepreneurship
				Describe the linkiages of entrepreneurship with economic development
				Integrate the entrepreneurship and economic development in Indian Economy
				Analyse the problems of the rural entrepreneurship in India
				Identify the source of finance and institutional support to enterprise
				Describe the diversification, joint ventures, merger and subcontracting with reference to India
				Explain the role of District Industrial Estates,

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
12	General Elective	Telangana Economy	4	Describe the basic features of Telangana Economy
				Construct the demographics and occupational distribution of Telangana
				Analyse the trends in rates of growth of Gross State Domestic Product (GSDP), Percapital Income of Telangana
				Analyse the problems of Poverty, unemployment and concentration of economic power
				Describe the features of Agriculture in Telangana and analyse trends of growth.
				Analyse the trends in agricultural productivity and evaluate the impact of Mission Kakatiya
				Describe the structure of Telangana Industry and Servie sector Evaluate the impact of TS iPASS on industrial growth
13	General Elective	Telangana Economy	4	Describe the basic features of Telangana Economy
				Construct the demographics and occupational distribution of Telangana
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				Analyse the problems of Poverty, unemployment and concentration of economic power
				Describe the features of Agriculture in Telangana and analyse trends of growth.
				Analyse the trends in agricultural productivity and evaluate the impact of Mission Kakatiya
				Describe the structure of Telangana Industry and Servie sector Evaluate the impact of TS iPASS on industrial growth

Political Science

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
1	Discipline Specific Course (DSC)	Political Theory	5	• Understand what is Politics and Political Theory its Evolution, Nature and Significance. Learn about Political Theory- Normative and Empirical approaches.
				• Gain the knowledge about theories origin of State- Divine, Evolutionary, Social Contract Theories.
				• Develop a sense of concept of State Sovereignty: Challenge to State Sovereignty. Acquire the knowledge of changing concept of Sovereignty in the context of Globalization.
				• To know about Power, Authority and Authoritative allocation of Values.
				• Understanding basic concepts of Liberty, Equality, Rights, and Justice in the perspective of Liberal, Marxist and Feminist view.
				• Understand the Political Ideologies- Liberalism, Nationalism and Multiculturalism.
2	Discipline Specific Course (DSC)	**Western Political Thought**	5	• Develop the sense of Greek Political Thought.
				• Acquainted about Plato's Ideal State and Aristotle's Philosophy.
				• To know about Thomas Aquinas's theory of Law.
				• Understand about State – Church controversy in the medieval age.
				• Be familiar the Niccolo Machiavell's Statecraft.
				• Develop the sense of Social Contract theories of Hobbes, Locke and Rousseau.

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
3	Discipline Specific Course (DSC)	Indian Political Thought	5	- Understand about the State and Society in Ancient India. - Gain the knowledge about philosophy of Ancient Indian thinker – Manu, Buddha and Koutilya - Assess and evaluate about philosophy of Basava and Ziauddin Barani. - Aquire the knowledge about renaissance thoughts of Raja Ram Mohan Roy and Jyothi Rao Phule. - Develop a sense of Socialist Thoughts of M.N.Roy, Jawaharlal Nehru and Ram Manohar Lohia.

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
4	Discipline Specific Course (DSC)	**Indian Government and Politics**	5	- Introducing the Indian Constitution with a focus on the role of the Constituent Assembly and examining the essence of the Preamble. - Gain the knowledge about the Indian National Movement. - Be familiar about the 1909 Act, 1919 Act and 1935 Act. - Examining the Fundamental Rights and Duties of Indian citizens with a study of the significance and status of Directive Principles. - Get the knowledge about the nature of Indian Federalism with focus on Union-State Relations. - Learn about the important - institutions of the Indian Union: the Executive: President; Prime Minister, Council of Ministers; Governor, Chief Minister and Council of Ministers; The legislature: Rajya Sabha, Lok Sabha, Speaker, Committee System, State Legislature, The Judiciary: Supreme Court and the High Courts : Composition and functions- Judicial Activism - Looking at the Constitutional Amendment Procedure with focus on the main recommendations of the Constitutional Review Commission (Venkata Challiah Commission) - Understand the Indian Party system – its development and looking at the ideology of dominant national parties and growth of regional parties. - Evaluating the role of various forces on Indian politics: religion; language; caste; tribe; regionalism; business; working class and peasants - Evaluating the Electoral Process in India with focus on the Election Commission: Composition, Functions and Role. - Investigating the New Social Movements since the 1970s: environmental movements, women's movement and human rights movement.

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
5	Discipline Specific Elective (DSE)	**International Relations**	4	• Understand the scope and subject matter of International Relations as an autonomous academic discipline.
				• Learn about the Colonialism and Causes and impact of 1st and 2nd World Wars.
				• Gain the knowledge about the Decolonization, 3rd World Countries and their problems.
				• Aquire the knowledge about causes, phases and impact of Cold War.
				• Get knowledge about Power, Super power,Regional powers, Detente, Unipolarity, Bi- polarity , Multipolarity, Peace and Security.
				• Understand about the formation, structure and fuctions of UNO. Its role in maintaining world peace.
6	Discipline Specific Elective (DSE)	**International Relations**	4	• Gain the knowledge about Neo Colonialism, North-South dialogue and South-South Cooperation.
				• Evaluate the structure and functions of IBRD, IMF,WTO and MNC's.
				• Be familiar about Globalization its impact on society.
				• Learn about Arms race, Arms control and Disarmament.
				• Get knowledge about Environment, Human Rights and Terrorism.
				• Understand the Foreign Policy of India its determinants , features.

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
7	Discipline Specific Course (DSC)	International Economics	4	Explain the classical and modern theories of International trade absolute advantage and comparitive advantage
				Describe the role of international trade in Economic Growth. Analyse how the terms of trade change and effect economies
				Explain different barriers to internatinal trade and analyse how the quantitative and qualitative restrictions on trade impact economies
				Construct Balance of Payments and analyse the causes for disequilibriam in Balance of Payments and suggest measures to correct it
				Evaluate composition and direction of international trade of india. Evaluate the export and import policies of Indian Economy
				Integrate and evaluate the status of international trade of Indian Economy in the present context
8	Discipline Specific Elective (DSE)	Demography	4	Describe the structure and composition of population of an economy. Analyse the trends in the light of theories of population
				Analyse population trends in Twentieth century. Evaluate the factors that determine the charecteristics of population

				Interpret the trends in fertility rates of developed and developing countries.
				Explain various methods of population projection
				Explain various streams of migration- Trends of urbanisation in developing and developed countries
				Analyse the trends in rates of growth of indian population - Evaluate the strategies of populatoin control in India

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
9	Skill Enhancement Course -I (SEC-I)	Rural Development	2	Define, distinguish and corelate the Rural development and Agricultural DevelopmentAnalyse the trends in the light of theories of population
				Analyse the role of Non-Governmental Agencies (NGOs) in Rural Development
				Interpret the trends in fertility rates of developed and developing countries.
				Integrate the rural farm and non farm sectors. Explain the decentralised planning and participatory development Describe the role of panchayats in decentralised rural devlelopment
				Explain the role of NABARD in Agriculture and Rural Development
				Identify the constraints of micro enterprises in rural areas, credit need for rural non-farm sector and show how the SHG can be instrumental in supply rural credit
10	Skill Enhancement Course -III (SEC-III)	Data Analysis	2	Identify the method of data collection Apply the data management tools R/Eviews/SPSS/MS Excel
				Interpret and use the data of Central Statistical Office (CSO), National Accounts Statistics, Industrial Statistics, Reserve Bank of India
11	Skill Enhancement Course -IV (SEC-IV)	Entrepreneurship and Development	2	Identify the basic features of Entrepreneurship
				Describe the linkiages of entrepreneurship with economic development
				Integrate the entrepreneurship and economic development in Indian Economy
				Analyse the problems of the rural entrepreneurship in India
				Identify the source of finance and institutional support to enterprise
				Describe the diversification, joint ventures, merger and subcontracting with reference to India
				Explain the role of District Industrial Estates,

S.No	Subject/ Course Code	Course Name	No of Credits	Course Outcome Upon completion of the c given course, the student will able to
12	General Elective	Telangana Economy	4	Describe the basic features of Telangana Economy Construct the demographics and occupational distribution of Telangana Analyse the trends in rates of growth of Gross State Domestic Product (GSDP), Percapital Income of Telangana Analyse the problems of Poverty, unemployment and concentration of economic power Describe the features of Agriculture in Telangana and analyse trends of growth. Analyse the trends in agricultural productivity and evaluate the impact of Mission Kakatiya Describe the structure of Telangana Industry and Servie sector Evaluate the impact of TS iPASS on industrial growth
13	General Elective	Telangana Economy	4	Describe the basic features of Telangana Economy Construct the demographics and occupational distribution of Telangana Analyse the trends in rates of growth of Gross State Domestic Product (GSDP), Percapital Income of Telangana Analyse the problems of Poverty, unemployment and concentration of economic power Describe the features of Agriculture in Telangana and analyse trends of growth. Analyse the trends in agricultural productivity and evaluate the impact of Mission Kakatiya Describe the structure of Telangana Industry and Servie sector Evaluate the impact of TS iPASS on industrial growth

Botany

Department of Botany			
Course Code	**Course Name**	**Credits**	**Course Outcome**
Semester V			
			☐ To know the infrastructure for nursery and planting.
BS 501	Skill Enhancement Course 3	2	☐ To understand the Seed structure, storage and testing.
	Nursery and Gardening		☐ To have knowledge of Vegetative propagation and gardening.
Semester VI			
	Skill Enhancement Course 4		
BS 601	Mushroom cultivation technology		☐ ☐☐☐understand the nutritional and medicinal value of edible mushrooms.
		2	☐ ☐☐☐know the methods of mushroom cultivation.
			☐ To acquaint with storage and food preparations.

Semester I			
Course Code	**Course Name**	**Credits**	**Course Outcome**
BS 104	PAPER I:Microbial Diversity and Lower Plants	4	☐ To gain knowledge about microbial diversity.
			☐ To have the ability to utilize the concept of mushroom cultivation.
			☐ To know about various plant diseases and their control measures.
			☐ To understand life cycles of different algal species.
			☐ To explore economic importance of algae& fungi.
			☐ To know the Life cycles of bryophytes and Pteridophytes.
Semester II			
BS 204	PAPER II:Gymnosperms, Taxonomy of angiosperms and Ecology	4	☐ To understand the life cycle of Gymnosperms.
			☐ To explain about fossils and fossilization.
			☐ To understand about geological time scale.
			☐ To understand different types of classifications.
			☐ To know the concepts of Angiosperm Taxonomy and Nomenclature and Taxonomic resources.
			• To understand the ecosystems and their components
Semester III			
BS 304	PAPER III:Taxonomy of angiosperms and Medicinal Botany	4	☐ To recognize the major groups of vascular plants and their phylogenetic relationships.
			☐ To gain proficiency in the use of keys and identification manuals for identifying any plants to species level.

			☐ To explore the uses of plants as medicine by traditional indigenous approaches.
			☐ To understand different systems of medicine and their uses .
			☐ Indigenous medicinal practices based on plant knowledge.
			☐ To get introduced to different perspectives on treating ailments.
Semester IV			
BS 404	PAPER IV: Plant anatomy, Embryology and Palynology	4	☐ To gain knowledge of plant cells , tissues and their functions.
			☐ To know plant anatomy and their role in disciplines of biology.
			☐ To know the structure and development of monocot and dicot embryos.
			☐ To compare the function and morphology of pollen grains.
			☐ Describe and illustrate modern and fossil spores and pollen grains.
Semester V			
BS 503	PAPER V: Cell Biology and Genetics	3	☐ To explain the structure of Cell components and their functions.
			☐ To describe cell division in plants.
			☐ To have knowledge of the nature and function of genes, processes of inheritance .
			☐ To describe linkage ,crossing over and mutations .
			☐ To understand ecological relationships and environment.
BS 506	Elective-1 : Ecology and Biodiversity		☐ To identify diversity of life forms in an ecosystem.

		3		
			☐ To understand the role that biodiversity plays in conservation science.	
			☐ To know the infrastructure for nursery and planting.	
BS 501	Skill Enhancement Course 3	2	☐ To understand the Seed structure, storage and testing.	
	Nursery and Gardening		☐ To have knowledge of Vegetative propagation and gardening.	
Semester VI				
			☐ To understand plant physiological processes and metabolism.	
			☐ To explain the role of micro nutrients in plant growth and development.	
			☐ To relate photosynthesis with the formation of primary and secondary metabolites.	
BS 603	PAPER VI: Plant Physiology	4	☐ ☐☐☐understand respiratory reactions.	
			☐ To know the role of nitrogen metabolism and phytohormones.	
			☐ To explain the main techniques of in vitro culture of plant cells &tissues.	
BS 606	ELECTIVE III: Tissue culture and	3	☐ To know the methods used for the bio-production of plant secondary metabolites.	
	Biotechnology		☐ To know the main techniques of genetic manipulation of plant organisms.	

	Skill Enhancement Course 4		
BS 601	Mushroom cultivation technology		⬜ ⬜⬜⬜understand the nutritional and medicinal value of edible mushrooms.
		2	⬜ ⬜⬜⬜know the methods of mushroom cultivation.
			⬜ To acquaint with storage and food preparations.

Zoology

Department of Zoology			
Semester I			
Course Code	**Course Name**	**Credits**	**Course Outcome**
Paper-I Core-I Theory	Invertebrate Zoology	4	• Students will be able to explain the evolutionary significance and diversification of invertebrates.
			• They can investigate invertebrates in laboratory and field conditions.
			• Students will study in detail the eco-friendly animals and their necessity in the ecosystem.
			• Also, the parasitic organisms will be understood,prevention and treatment of the diseases can be taken up for a healthy and quality life.
			• Production of Pearls, silk (Sericulture), honey (Apiculture), Lac (Lac Culture) etc. can be studied.
Semester II			
Paper-II Core-II Theory	Ecology,Zoogeography & Animal Behaviour	4	• The students get to understand the significance of balanced ecosystem maintenance of animal associations.
			• Control of pollution and conserve wildlife for a better future.
			• Also, identify the faunal peculiarities in response to the climate all over the globe.
			. Know the intrinsic behavioural patterns of many animals.
Semester-III			
Paper-III Core-III Theory	Animal Diversity- Vertebrates and Development Biology	4	• Understanding the significance of the physiology and life cycle stages of various vertebrates.
			• Differentiation of poisonous snakes from non- poisonous one's, first aid to snake bite.
			. Birds taught us to fly in an aeroplane, to study the evolution through embryological evidences as seen in developmental biology
Semester-IV			
Paper- IV Core-IV Theory	Cell Biology,Genetics & Evolution	4	• A thorough understanding of the components, including the hereditary molecular understanding,
			sex determination in animals and the various theories and evidences of evolution.
Semester-V			
Paper-V	Physiology &	3	• By studying the physiological aspects we understand our body's response to various substances

DSC-I Theory	Biochemistry		that enter and move out of our bodies and thus impeccably regulated.
			.To maintain the hormonal balance, thus avoiding many health complications, we can know which food is beneficial and the energy production details due to break down of biomolecules.
Paper-VI(B) DSE-I Theory	Entemology	3	• We get an overall view of insects.
			• Their uses like in apiculture, sericulture, Lac culture etc.
			• We get to know the harm they cause to animals and plants, as they act as vectors for many parasites and cause crop damage.
			.Venomous insects are studied, the social life of insects teaches us how to live successfully in society
Generic Elective-I	Microbiology & Human Health	2	• By studying about Microbiology, we get to know how to get rid of the harmful ones and utilize the useful ones for the prosperity of mankind .
			We learn how to treat various diseases caused by micro organisms and also how to prevent them.
Semester-VI			
Paper-VII DSC-II Theory	Immunology & Animal Biotechnology	3	• The study of components and the working of the complete immune system in our body is accomplished here for the development of better resistance to various diseases, the significance of immunization is well understood.
			• The various applications of Biotechnology like cloning, animal cell culture, RDNA technology, transgenesis and stem cell applications are thoroughly understood and applied to human use.
Paper-VIII(A) DSE-II Theory	Aquatic Biology	3	• The students get an indepth knowledge of fresh water ecosystems like lakes, wetlands, streams and rivers, Estuaries, intertidal zones, oceanic pelagic zone, marine benethic zones etc.
			• The beautiful corral reefs are familiarized. The lake as an ecosystem and its morphometry are understood.
			. The Causes and effects of aquatic pollution are well understood.
Generic Elective-II	Applications of Biotechnology	3	• The students learn how to improve crop yield with less investment, learn the procedures in Industrial microbiology for the production of pharmaceuticals, bevarages,harmones,enzymes etc.
			• They also learn the significance of genetically modified plants and animals which cater to the needs of mankind.
			• Gain knowledge about stemcells, transgenesis, Bioremediation, Biopesticides and Biofertilizers.
			• The means of protecting against them through immunizations.

Chemistry

Department : CHEMISTRY	
Semester : 4 (Paper-IV)	

Course Code	Course Name	Credits	Course Outcome
BS 406	Chemistry-IV ----------------------- Unit.I : Inorganic Chemistry Unit.II: Organic Chemistry Unit.III Physical Chemistry Unit.IV: General Chemistry ------------------------ Laboratory Course-IV. (Quantitative Analysis-2)	4+1=5	Students will gain an understanding of: 1. Describe the postulates and limitations of Werner's theory ,Sidwick's and VBT theory. 2.Acquire knowledge on the IUPAC Nomenclature and solve the EAN of coordination compounds. 3.Categorise the Organometallic compounds of Li, Mg, Al and Metal carbonyls. Dicuss its applications. 4. Understand the preparation methods and its synthetic applications in industry of carboxylic acids and carbanions. 5. Have an idea on all named reactions and mechanisms of carboxylic acids and Nitrohydrocompounds and focus on its industrial applications. 6. Acquire knowledge on Hittof's method, Kholrausch law,Arrhenius theory,Ostwald dilutionlaw,DebyeHuckle Onsagar equation and predicts its applications. 7. Accomplish the Nernst equation, EMF of a cell ,Single electrode potential, Standard hydrogen electrode,electrochemical series.

Department : CHEMISTRY			
Semester : (Paper-V)			
Course Code	**Course Name**	Credits	**Course Outcome**
BS 505	Chemistry-V ----------------------- Unit.I : Inorganic Chemistry Unit.II: Organic Chemistry Unit.III Physical Chemistry Unit.IV: General Chemistry ------------------------ Laboratory Course-V. (Organic Synthesis &TLC)	3+1=4	Students will gain an understanding of: 1.Understand the theories of coordination compounds and stability Understand of metal complexes. 2.List and judge the applications of coordination compounds in various fields 3.Know about the clusters with the examples of Borane and carborane 4.Compare the property and reactivity of different class of amines and design the synthesis pathway of different organic compounds using amines 5.Classify heterocyclic compounds and compare their aromatic character amd reactivity 6. Develop concept on reaction kinetics with special reference to factors influencing the rate and evaluate the merits of different theories of reaction rate 7.Know about electromagnetic radiation and understand the interaction of electromagnetic radiation with molecules - various types of molecular spectra 8. Learn to analyze the consequences of light absorption with reference to various photophysical processes and photochemical reactions with normal and abnormal quantum yield.

Department : CHEMISTRY			

Semester : 6(Paper-VII)			

Course Code	Course Name	Credits	Course Outcome
BS 605	Chemistry-VII ----------------------- Unit.I : Inorganic Chemistry Unit.II: Organic Chemistry Unit.III Physical Chemistry Unit.IV: General Chemistry ------------------------- Laboratory Course-VII (Qualitatative and Spectral Analysis of Organic Compounds)	3+1=4	Students will gain an understanding of: 1. Understand the concept of Inorganic reaction mechanism with respect to octahedral and tetrahedral complexes 2. Know about the Biological significance of essential elements and toxicity of heavy metals 3. Acquire knowledge about carbohydrate chemistry with reference to definition, classification and evaluation of structure from reactions. 4. Acquire knowledge about chemistry of amino acids – essential amino acids, Biological importance. Learn to relate the peptide bond formation for the synthesis of protein 5. Have an extensive knowledge on Thermodynamics with reference to different Thermodynamic functions, processes, work of expansion and laws of Thermodynamics 6. Understand the applications of Thermodynamics in basic sciences for deriving equations, in engineering science for calculating efficiency of machine and evaluation of spontaneity of process. Learn to derive the equation of spontaneity, Gibb's equation and Maxwell's relations 7. Understand the principle of Nuclear Magnetic Resonance, concept of chemical shift and splitting of signals – spin –spin coupling. Implement the concept in analyzing the NMR spectrum for identification of organic compounds 8. Understand the basic principle of mass spectrometry and learn to determine the mass spectral pattern of different organic compounds.

Department : CHEMISTRY			
Semester : 6(Paper-VIII)			
Course Code	Course Name	Credits	Course Outcome
BS 605BS 608A	Chemistry-VIII ------------------------ Unit.I : Introduction &Terminology Unit.II: Enzymes & Receptors Unit.III Synthesis & Therapeutic Activity of Drug Unit.IV: Molecular Messengers & Health Promoting Drugs ------------------------ Laboratory Course-VIII (Experiments in Physical Chemistry) 1. Kinetics 2. Electro Chemistry 3.Coductometry	3+1=4	Students will gain an understanding of: 1. Recalling Infective and hereditary diseases. 2. Know about the terminology in medicinal chemistry and Nomenclature of Drugs. 3. Understand ADME of Drugs. 4. Acquire the knowledge of mechanism of action of drugs and factors effecting action of Enzyme and Receptors. 5. Evaluate the Synthesis and therapeutic activity of Drugs related to Chemotherapeutics, acting on metabolic disorders and acting on nervous system. 6. Analyzing the function of molecular messengers and health promoting drugs.

Department : CHEMISTRY			
Semester : 3(Paper-SEC.1)			
Course Code	Course Name	Credits	Course Outcome
BS 301	Safety Rules in Chemistry Laboratory and Lab Reagents	2	Students will gain an understanding of: 1. Recalling general rules and regulations for lab safety. 2. Know eye protective equipments (PPE),Hair dressing for lab,use of gloves,gaguls,shoes etc in lab. 3. Understand calibraions of fractional weights,glass ware,etc 4. Acquire the knowledge of preparation of dilute solutions with various concentrations and standard solutions. 5. Know the good laboratory practieces and maintain observation note book in the lab. 6. Analyzing the preparation of laboratory reagents and uses of indicators.

Department : CHEMISTRY			
Semester : 4(Paper-SEC.2)			
Course Code	**Course Name**	Credits	**Course Outcome**
BS 401	Remedial Methods for Pollution,Drinking water and Soil fertility	2	Students will gain an understanding of: 1.Understand the prevention and control of air pollution,ozone depletion and their replacements,Global warming,Green house effect. 2. Know the source of radiation pollution,radiation effect by the usage of cell phones and protective tips. 3. Understand the DO.COD,,BOD etc.Sorce of soil pollution -plastic bags,industrial waste etc.and controll of soil pullution. 4. Acquire the knowledge of water quality and common treatments of private drinking water system. 5. Know the water testing,mineral analysis, micro biological tests. and pesticides and other organic chemical tests. 6. Analyzing the effect of PH on nutrient availability, micro nutriens and their effect on plants.

Department : CHEMISTRY			
B.Sc I year - Non CBCS Syllabus			
Course Code	**Course Name**	**Workload**	**Course Outcome**
	Chemistry-I ----------------------- Unit.I : Inorganic Chemistry Unit.II: Organic Chemistry Unit.III Physical Chemistry Unit.IV: General Chemistry ------------------------- Laboratory Course-I (Quantitative Analysis)	36 hrs	Students will gain an understanding of: Interpret the diagonal relationship of s-block elements & understand the general charecteristics of I&II group elements. Know the general charecteristics of p-block elements, Describe the synthesis & list the various types of B,C,Si & N compounds. Undestand the Synthesis and structure of diborane and higher boranes,prepration and applications of silicones,graphite compounds. Able to understand the physical and chemical properties of oxides,Oxy-acids of p block elements. Categorise the Organometallic compounds of Li Mg Al .Dicuss its applications. Based on bond polarization acidity & basicity & stability of reactive intermediate of different hydrocarbs can be determined. Understand the types of organic reactions of hydro carbons. Understand the preparation methods of alkanes,alkenes,alkynes and chemical properties Know the aromaticity of cyclic compounds can predicted by Huckel's rule. preparations and properties of benzene Acquire knowledge on Vander Waal's equation,Joule Thomson effect,applications of liquid crystal as LCD devices, Bragg's law,Planes and structures of NaCl,KCl. Know the Roult's law,Nernst distribution law. Understand atomic structure by the defferent principles,quantum mechanics. Know the VBT,MOT and differenciate both the theories. Interpret R and S configuration, D/L Nomenclature and E/ Z Configuration.

Department : CHEMISTRY			
B.Sc II year - Non CBCS Syllabus			
Course Code	**Course Name**	**Workload**	**Course Outcome**
	Chemistry-II ---------------------- Unit.I : Inorganic Chemistry Unit.II: Organic Chemistry Unit.III Physical Chemistry Unit.IV: General Chemistry ------------------------ Laboratory Course-II (Titrimetric Analysis, Gravimetric Analysis)	37 hrs	Students will gain an understanding of: Defines the properties of f-block elements and non-aqueous solvents Differentiate the symmetry elements, operations in molecules, lanthanides and actinides. Know the free elecron theory,Bond theory,Explain the conductors,semi conductors and insulators. Categorise the Metal carbonyls.Dicuss its applications and understand the EAN rule,discuss ferrocene and metal nitrosyls. Understand the preparation methods and its synthetic applications in industry of carboxylic acids and carbanions. Explore the methods of preparation and properties of halogen compounds, alcohols, and carbonyl compounds and current applications Have an idea on all named reactions and mechanisms of carboxylic acids and its derivatives and focus on its industrial applications. Undrestand the AAE and its preparation methods,properties. Design the Phase equilibria of one component and two component system, ,compound with congruent and incongruent melting point. The study of colligative properties helps to determine molecular masses of solutes Know the Roult's law, Van't hoff factor and its uses Accomplish the Nernst equation, EMF of a cell ,Single electrode potential, Standard hydrogen electrode,electrochemical series. Differentiate the symmetry elements, operations in molecules, lanthanides and actinides. Know the principls of volumetric analysis and gravimetric analysis. Understand the thoery of errors and error analysis and types of pericyclic reactions,HOMO,LUMO.

Department : CHEMISTRY			
B.Sc III year - Non CBCS Syllabus			
Course Code	**Course Name**	**Workload**	**Course Outcome**
	Chemistry-III ----------------------- Unit.I : Inorganic Chemistry Unit.II: Organic Chemistry Unit.III Physical Chemistry Unit.IV: General Chemistry ------------------------ Laboratory Course-III 1.Synthesis of Organic compounds. 2.TLC,CC 3.Organic qualitqtive analysis.	20 hrs	Students will gain an understanding of: Describe the postulates and limitations of Werners theory ,Sidwick's and VBT theory. Acquire knowledge on the IUPAC Nomenclature and solve the EAN of coordination compounds. Understand the theories of coordination compounds and stability of metal complexes. List and judge the applications of coordination compounds in various fields Understand the concept of Inorganic reaction mechanism with respect to octahedral and tetrahedral complexes Know about the Biological significance of essential elements and toxicity of heavy metals Compare the property and reactivity of different class of amines and design the synthesis pathway of different organic compounds using amines Classify heterocyclic compounds and compare their aromatic character amd reactivity Acquire knowledge about carbohydrate chemistry with reference to definition, classification and evaluation of structure from reactions. Acquire knowledge about chemistry of amino acids – essential amino acids, Biological importance. Learn to relate the peptide bond formation for the synthesis of protein Understand the basic principle of mass spectrometry and learn to determine the mass spectral pattern of different organic compounds Develop concept on reaction kinetics with special reference to factors influencing the rate and evaluate the merits of different theories of reaction rate Learn to analyze the consequences of light absorption with reference to various photo physical processes and photochemical reactions with normal and abnormal quantum yield. Have an extensive knowledge on Thermodynamics with reference to different Thermodynamic functions, processes, work of expansion and laws of Thermodynamics Understand the applications of Thermodynamics in basic sciences for deriving equations, in engineering science for calculating efficiency of machine and evaluation of spontaneity of process. Learn to derive the equation of spontaneity, Gibb's equation and Maxwell's relations

Department : CHEMISTRY	

B.Sc III year - Non CBCS Syllabus

Course Code	Course Name	Workload	Course Outcome
	Chemistry and Industry-IV ----------------------- Unit.I : Physico Chemical methods of analysis. Unit.II: Drugs,formulations,pesticides and Green chemistry Unit.III Macro molecules,materials science and catalysis. Unit.IV: General Chemistry ------------------------ Laboratory Course-IV 1.Chemical kinetics. 2.Distribution law. 3.Electro Chemistry. 4.pH metry. 5.Colorimetry. 6.Adsorption.	19 hrs	Students will gain an understanding of: Acquire the knowledge of principle and methods of solvent extractions and their application. Understand the classification of Chromatographic methods, principle, nature of adsorbents and solvent systems. Understand and evaluate Principle, Instrumentation and application of TLC, Paper chromatography, Column chromatography, IEC, GC, HPLC techniques. Illustrate general features of absorption, its laws. Acquire the Knowledge of Instrumentation of Spectrophotometry, its principle and with their application in estimation of Iron, Chromium and Manganese in Steel. Know about the of types of electroanalytical methods. Analyze the principles, types of electrodes used and applications of potentiometry, Voltametry and conductometry Understand the principle of Nuclear Magnetic Resonance, concept of chemical shift and splitting of signals – spin –spin coupling. Implement the concept in analyzing the NMR spectrum for identification of organic compounds.

Department : CHEMISTRY	
Semester : 3(Paper-III)	

Course Code	Course Name	Credits	Course Outcome
BS 306	Chemistry-III ----------------------- Unit.I : Inorganic Chemistry Unit.II: Organic Chemistry Unit.III Physical Chemistry Unit.IV: General Chemistry ------------------------ Laboratory Course-III (Quantitative Analysis-1)	4 + 1 = 5	Students will gain an understanding of: 1.Understand the properties of actinides,lanthanids of f-block elements like contraction,color and complex formations. 2.Differentiate the symmetry elements, operations in molecules, lanthanides and actinides 3.The use of group theory to recognize and assign symmetry characteristics to molecules and objects, and to predict the appearance of a molecule's vibrational spectra as a function of symmetry, 4.Explore the methods of preparation and properties of alcohols, ethers and carbonyl compounds and current applications 5. Know the fundamental principles of organic chemistry and predict outcomes and derive mechanism of various types of organic reactions in alcohols,phenols,ethers and carbonyl compounds. 6. Understand various types of reactive intermediates and factors affecting their stability . 7. Understand the nomenclature, synthesis, isomerism and physical properties of alcohols,phenols,ethers and carbonyl compounds. 8. Able to describe different classes of alcohols. 9. Able to write down structure of phenol and phenoxide ion. 10.Design the Phase equilibria of one component and two component system, ,compound with congruent and incongruent melting point 11.Demonstrate the methods of preparations and properties, of colloids, Analyze adsorption isotherms and its industrial applications to reduce pollution and compute the surface area of adsorbent 12.Know the synthetic techniques of Nano structured materials, its current applications. 13.Classify stereoisomer's based on symmetry criteria and energy criteria. 14.Interpret Rand S configuration, D/L Nomenclature and E/ Z Configuration. 15.Predict the Conformations of simple organic molecules

Physics

B.Sc. Physics Course Outcomes
Course Code	Course Name	Credits	Course Outcomes
Semester-I
BS106	Mechanics	4	• Students after completion of this course have deep understanding of Newton's Laws to solve the problems of simple configurations.
			• Understand the foundations of potential, fields, central forces and Kepler's Laws.
			• Introduction to Mathematical methods make Physicits to understand Gradient, Divergence and Curl in real space.
Semester-II
BS206	Waves and Oscillations	4	• Learn the fundamentals of harmonic oscillator including damped and forced oscillations and grasp the significance of terms like quality factor, damping coefficient.
			• Study of the Equation of Wave motion and TM Waves in stretched strings and Longitudinal Waves in Gases.
Semester -III
BS306	Thermodynamics	4	• Student is expected to understand the difference between the Reversible and irreversible process, working of Carnot Engine, calculating change in Entropy of various processess.
			• Realize the importance of thermodynamic functions and applications of Maxwell's Equations.
			• To get core ideas of statistical distribution and basic ideas of Boltzmann,Bose-Einstein and fermidirac statistics and their applications.
Semester-IV
BS406	Optics	4	• Students use the principles of Wave Motion and super position to explain the physics of Polarization, interference and diffraction.
			• To Understand the basics of modern optics like fibre optics and Holography.
Semester -V
BS505	Electromagnetism	3	• The student can apply the principles of electrostatics to the solutions of problems relating to electricfield and electricpotential,boundry conditions.

			• Apply the principles of Magnetostatics to the solutions of problems relating to Magneticfield and Magnetic potential,boundary conditions.
			• Understand the concepts of Farady's Laws, induced EMF and Maxwell's Equations.
			• Apply Maxwell's Equations to solutions of problems relating to transmission lines and uniform plane wave propagation.
BS506	Elective–A: Solid State Physics	3	• Students have a clear picture of crystal structures, clear ideas of X-Ray diffraction, knowledge of Magnetism, super conductivity.
			• Students familarize with electronic properties like Polarization, Ferro-Electricity.
	Elective-B: Quantum Mechanics	3	The Student can get concept clarity of black body radiation, Photoelectric effect and Compton Effect.
			Concept of Wave Mechanics, Eigen Vectors,Eigen Functions,Eigen Values.
			Quantum mechanical axioms and the matrix representation of Quantum mechanics
			Approximate methods for solving the Schrödinger equation (the variational method, perturbation theory, Born approximations).
			Spin, angular momentum states, angular momentum addition rules, and identical particles.
Semester -VI			
BS605	Modern Physics	3	• Command elementary and intermediate quantum methods.
			• Apply quantum methods in the solution of problems involving atomic spectra, blackbody radiation, the photoelectric effect, X-ray emission, the structure of the atom, and onedimensional potentials.
			• Quantitatively defend the assertions of Modern Physics theories.
			• Perform experimental work with atomic and subatomic particles and photons.
			• Communicate scientific ideas and physical concepts in writing clearly and effectively.
			• Define and explain at least 5 areas of cutting edge 21st century Physics and its relation to Modern Physics theories developed in the 20th century.
BS606	Elective–A: Basic Electronics	3	• Study of Beams of charges, junction Diodes, Transistors, signal and noise voltages, operational Amplifiers, Analog to Digital conversion vice-versa, digital insturmentation.
BCC107	Elective-B: Physics of Semi conductor Devices	3	• Students can describe forbidden gap, Fermi-Energy level in P-Type, N-Type material.
			• Characterize semiconductors in terms of Crystal structures, charge carriers and energy bands.
			• Physical Characteristics of electronic structures, optical and transport properties, current-voltage behaviour.

Mathematics

Course Code	Course Name	Credits	Course Outcome
BS-104	Differential And Integral Calculus	6	After completion of this course students will able to
			☐ Find maxima and minima of functions of two variables.
			☐ Find circle radius and centre of curvature
			☐ Evaluate the volumes of solids using cross sections
			☐ Evaluate the area of surfaces of revaluation
			☐ Students will able to area and volume by applying the techniques of double and triple integrals

Semister-II

BS-204	Diifferential Equations	6	After learning this course students will able to
			☐ Obtain an integrating factor which may reduce a given differential equation into an exact one and eventually provide its solution.
			☐ Identify and obtain the solution of Clairaut's equation.
			☐ Method of solution of the differential equation.
			• Use Lagrange's method for solving the first order linear partial differential equation.
			☐ Solve differential equations of first order using graphical, numerical, and analytical methods.

Semester -III

BS-304	Real Analysis	6	☐ Understand the term convergence.
			☐ Applies this term into problems.
			☐ Distinguish Uniform continuity from continuity and related theorems.
			☐ Understand partitions and their refinement.
			☐ Evaluate the limits of a wide class of real sequences.
			• Develops a knowledge about Riemann Integration and applies into problems.

Semister-IV			
BS-404	Algebra	☐	After completion of this course students will able to
			☐ To combine polynomial by addition and substraction.
			☐ To solve the problems of simple inequalities.
			☐ To simplify algebraic expressions using the commutative, associative and distributive properties.
			• Learn to compute determinants and know their properties.
			☐ Learn to find and use eigenvalues and eigenvectors of a matrix.
Semester -V			
BS-503	Linear Algebra	6	After completion of this course Students will be able to
			☐ Learn to compute determinants and know their properties.
			• Obtain various variants of diagonalization of linear transformations
			☐ Learn about properties of linear transformation and isomorphism theorems.
			☐ Use the concept of basis and diemension of vector spaces linear dependence and linear independence to solve problems.
			☐ Solving linear equations, working with matrices, in particular eigen values and eigenvectors, and applying the techniques to real life .
Semister-V			
BS-506	Solid Geometry	6	After completion of this course students will able to
			☐ To get basic knowledge about Circle, Cone, Parabola, Hyperbola, Ellipse etc.
			☐ To understand the concepts & advance topics related to two & three dimensional geometry.
			☐ To study the applications of conics.
			☐ To study the application of Sphere, cone and cylinder.
			☐ To study how to trace the curve.
Semester -VI			
BS-601	Numerical Analysis	6	After completion of this course students will able to
			• Find the difference of polynomial.
			☐ Solve problems using Newton forward formula and Newton backward formula.

			☐ Find maxima and minima for differential difference equation.
			☐ Derive Simpson's 1/3 ,3/8 rules using trapezoidal rule.
			☐ Find the summation of series finite difference techniques
Semester -VI			
BS-606	Vector Calculus	6	After completion of this course students will able to
			☐ Memorize definition of directional derivative and gradient and illustrate geometric meanings with the aid of sketches.
			☐ Memorize theorem relating directional derivative to gradient and reproduce proof.
			☐ Calculate directional derivatives and gradients.
			☐ Apply gradient to solve problems involving normal vectors to level surfaces.
			☐ Explain the concept of a vector integration a plane and in space.

Computer Science

Department of Computer Science			
Semester -I			
Course Code	**Course Name**	**Credits**	**Course Outcomes**
BS106	Programming in 'C'	5	
			• Write a maintainable C program for a given algorithm.
			• Trace the given C program manually.
			• Write C program for simple applications of real life using structures and files.
			• Explain role of Operating system in computer system and applications of computer networks.
			• Design an algorithmic solution for a given problem
			• The students will be able to enhance their analyzing and problem solving skills and use the same for writing programs in C.
Semester-II			
BS206	Programming in C++	5	
			• Explain how an existing C++ program works.
			• Discover errors in a C++ program and describe how to fix them.
			• Critique a C++ program and describe ways to improve it.
			• Analyze a problem and construct a C++ program that solves it.
			• Choose and apply the required Linux commands to develop C++ programs in a command-line environment.
Semester -III			
BS306	Data Structures	5	
			• Ability to analyze algorithms and aalgorithm correctness.
			• Ability to summarize searching and sorting techniques.
			• Ability to describe stack,queue and linked list operation.

			• Ability to have knowledge of tree and graphs concepts.
Semester-IV			
BS406	Database Management Systems	5	
			• Describe the fundamental elements of relational database management systems.
			• Improve the database design by normalization.
			• Design ER-models to represent simple database application scenarios.
			• Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.
			• Familiar with basic database storage structures and access techniques: file and page organizations,
			indexing methods including B tree, and hashing.
Semester -V			
BS505	Programming in Java	4	
			• Use an integrated development environment to write, compile, run, and test simple object-oriented Java programs.
			• Read and make elementary modifications to Java programs that solve real-world problems.
			• Validate input in a Java program.
			• Identify and fix defects and common security issues in code.
			• Document a Java program using Javadoc.
			• Use a version control system to track source code in a project.
Semister-V			
			• Learn the basic concepts of operating systems. and about process management
			• Apply different optimization techniques for the improvement of system performance
			• Discuss various protection and security aspects.
			• Apply different deadlock prevention techniques
			• Learn and apply different memory management techniques
			• Explain the objectives and functions of modern operating systems
Semester -VI			
			• Independently understand basic computer network technology.
			• Understand and explain Data Communications System and its components

			• Identify the different types of network topologies and protocols.
			• Enumerate the layers of the OSI model and TCP/IP. Explain the function(s) of each layer.
			• Identify the different types of network devices and their functions within a network.
			• Understand and building the skills of subnetting and routing mechanisms.

Semester -VI

			• Students are able to develop a dynamic webpage by the use of java script
			• Students will be able to connect a java program to a DBMS and perform insert
			• Students will be able to write a well formed / valid XML document DHTML.
			• Students will be able to write a server side java application called Servlet to catch update and delete operations on DBMS table.
			• Students will be able to write a server side java application called JSP to catch form data sent from client, .
			process it and store it on database

Department of Computer Science

BCOM (Comp.)Semester I

			• Understand basic concepts and terminology of information technology.
			• Have a basic understanding of personal computer.
			• Acquire knowledge about generation of computers and types of computers.
			• Know about hardware/software methods and tools.
			• Know about different versions in windows operating system.

Semester -II

			• Define an IT infrastructure and describe its components.
			• Have the knowledge of the core activities in the systems development process.
BCC207	Management Information System	4	• Acquire the knowledge of different types of management information systems.
			• Understand the processes of developing and implementing information systems.
			• Be familiar with the ethical, social, and security issues of information systems.

Semester -III

BCC307	Programming with 'C'	4	• Understanding concept on structural Programming language, Pseudo code
			and Algorithm.

			• Ability to work with textual information, data types, characters and strings.
			• Ability to work with Looping and Branching statements practically.
			• Ability to work with expressions and type casting.
			• Ability to work with arrays and strings of complex objects
Semester -IV			
BCC407	Object Oriented Programming with C++	5	• Understand the difference between the top-down and bottom-up approach
			• Apply the concepts of object-oriented programming
			• Use features of C++ like type conversion, inheritance, polymorphism, I/O streams and files to develop programs for real life problems.
			• Develop the applications using object oriented programming with C++.
			• Use standard template library for faster development.
Semester -V			
BCC506	Excel Foundation	4	• Examine spreadsheet concepts and explore the Microsoft Office Excel environment.
			Enter and edit data,Format data and cells.
			• Construct formulas, including the use of built-in functions, and relative and absolute references.
			• Summarize data with data analysis, PivotTables, and PivotCharts.
			• Create and modify charts,Preview and print worksheets.
			• Increase productivity with macros, templates, and custom toolbars and menus.
			• Use the Excel online Help feature.
Semester -V			
BCC508(a)	Web Technology	5	• Analyze a web page and identify its elements and attributes
			• Create web pages using XHTML and Cascading Styles sheets.
			• Build dynamic web pages using JavaScript (client side programming).
			• Make the web pages more dynamic and interactive.
			• Create XML documents and XML Schema
			• Build web applications using PHP.
Semester -VI			

BCC607(a)	E-Commerce	5	• Understand the fundamental and importance of E-commerce
			• Gain knowledge of different types in E-commerce: C2C,C2B,B2C,B2B,G2C
			• Analyze the impact of E-commerce on business models and strategy
			• Learn about the infrastructure for E-commerce
			• Learn the key features of Internet, Intranets, Extranets and web technology and how they relate to each other.

Semester -VI

BCC608(a)	Relational Database Management Systems	5	• Demonstrate an understanding of the elementary & advanced features of DBMS & RDBMS
			• Describe the fundamental elements of relational database management systems
			• Design ER-models to represent simple database application scenarios
			• Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.
			• Improve the database design by normalization.

B.com (CA)Semester -I

BC107	Information Technology	4	• Understand types of operating system and booting process.
			• Learn types of virus and how to protect the data from virus.
			• Identify uses of spreadsheets in accounting application.
			• Understand the applications of power point presentation and types of slides.

Semester -II

BC207	Relational Database Management Systems	4	• Demonstrate an understanding of the elementary & advanced features of DBMS & RDBMS
			• Describe the fundamental elements of relational database management systems
			• Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.
			• Design ER-models to represent simple database application scenarios
			• Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.
			• Improve the database design by normalization.

Semester -III

BC307	Programming with 'C'	4	• Understanding concept on structural Programming language, Pseudo code and Algorithm.
			• Ability to work with textual information, data types, characters and strings.
			• Ability to work with Looping and Branching statements practically.

			• Ability to work with expressions and type casting.
			• Ability to work with arrays and strings of complex objects
Semester -IV			
BC407	Object Oriented Programming with C++	4	• Understand the difference between the top-down and bottom-up approach
			• Apply the concepts of object-oriented programming
			• Use features of C++ like type conversion, inheritance, polymorphism, I/O streams and files to develop programs for real life problems
			• Develop the applications using object oriented programming with C++.
			• Use standard template library for faster development.
B.com (CA)Semester -I			
DSC103	Fundamentals of Information Technology	5	• Understand basic concepts and terminology of information technology.
			• Have a basic understanding of personal computers and their operations.
			• Be able to identify issues related to information security.
Semester -II			
DSC203	Programming with 'C' & 'C++'	5	• Write good programs in C language
			• Understand and use C libraries
			• Effectively use of Arrays and functions
			• Ability to work with expressions and type casting.
			• Develop the applications using object oriented programming with C++.

Department of Commerce

Course Code	Course Name	Credits	Course Outcome
DSC101	Financial Accounting-I	5	1. Enable the students to learn principles and concepts of Accountancy.
			2. Students are enabled with the Knowledge in the practical applications of accounting.
			3. The student will get thorough knowledge on the accounting practice prevailing in partnership firms and other allied aspects.
			4. Find out the technical expertise in maintaining the books of accounts.
			5. Encourage the students about maintaining the books of accounts for further reference.
DSC102	Business Organisation and Management	5	1. Know to make planning, decision making, controlling, staffing, organizing etc to understand new approaches in management
			2. Apply conceptual business foundation to solve practical decision making problems, both Individually and as part
			of teams using techniques such as case study, project and assignment.
			3. Recognize and address ethical issues and values and apply them in organizational settings Knowledge of social awareness.
			4. Develop good leaders in management area.
DSC103	Fundamentals of Information Technology		1. Understand basic concepts and terminology of information technology.
			2. Have a basic understanding of personal computers and their operations.
			3. Be able to identify issues related to information security.
			4. Acquire knowledge about generation of computers and types of computers.
			5. Know about hardware/software methods and tools.
Semester -II			

DSC201	Finanancial Accounting II	5	1. Enable the students to learn principles and concepts of Accountancy.
			2. Students are enabled with the Knowledge in the practical applications of accounting.
			3. Enable the students to learn the basic concepts of Partnership Accounting, and allied aspects of accounting.
			4. The student will get thorough knowledge on the accounting practice prevailing in partnership firms and other allied aspects.
			5. Find out the technical expertise in maintaining the books of accounts.
			6. Encourage the students about maintaining the books of accounts for further reference.
DSC202	Business Laws	☐	1. The student will well verse in basic provisions regarding legal frame work governing the business world.
			2. Know the students with the basic concepts, terms & provisions of Mercantile and Business Laws.
			3. Develop the awareness among the students regarding these laws affecting trade business, and commerce
DSC203	Programming with 'C' & 'C++'	5	1.Write good programs in C language
			2. Understand and use C libraries
			3. Effectively use of Arrays and functions
			4. Ability to work with expressions and type casting.
			5. Develop the applications using object oriented programming with C++.
Semester - III Computer Applications			
BC301	Principles of Insurance	☐	1. Identify what insurance is, why insurance works and how to determine insurance needs.
			2. Explain insurance operation, including functions of insurance, insurance markets, insurance regulations and
			the use of insurance as a tool to avoid losses and reduce risk.
			3. Familiarise themselves with major insurance products, such as life insurance, health insurance, property and liability insurance.
			4. Compare various kinds of insurance plans as well as the contract selection criteria from a cost-benefit point of view.
BC304	Advanced Accounting	5	1. Prepare financial accounts for partnership firms in different situations of admission, retirement, death and insolvency of the partners
			2. Prepare financial statements for partnership firm on dissolution of the firm.
			3. Preparation of financial accounts with profits before incorporation.
			4. Demonstrate an understanding about the profits of the company and their division

			5. Understand the valuation of shares and goodwill and prepare financial statements accordingly
BC305	Income Tax I	☐	1. Develop quality consultant in taxation area.
			2. Encourage the students to undertake higher studies and research in taxation with new policy
			3. Become the ability to find various levels of taxation in income and to suggest tax payer effectively and efficiently
			4. Become proficiency in using information technology and accounting tools in taxation process.
BC306	Business Statistics-I	4	1. Use and understand useful functions in business as well as the concept of EMI.
			2. Understand the different concept of population and sample and to make students familiar with
			Calculation of various types of averages and variation.
			3. Learn the applications of matrices in business.
			4. Understand the students to solve LPP to maximize the profit and to minimize the cost.
			5. Use regression analysis to estimate the relationship between two variables and to use frequency distribution to make decision.
			6. Understand the techniques and concept of different types of index numbers.
BC307	Programming with 'C'	4	1. Understanding concept on structural Programming language, Pseudo code and Algorithm.
			2. Ability to work with textual information, data types, characters and strings.
			3. Ability to work with Looping and Branching statements practically.
			4. Ability to work with expressions and type casting.
			5. Ability to work with arrays and strings of complex objects
Semester - III General			
BC301	Principles of Insurance	☐	1. Identify what insurance is, why insurance works and how to determine insurance needs.
			2. Explain insurance operation, including functions of insurance, insurance markets, insurance regulations and
			the use of insurance as a tool to avoid losses and reduce risk.
			3. Familiarise themselves with major insurance products, such as life insurance, health insurance, property and liability insurance.
			4. Compare various kinds of insurance plans as well as the contract selection criteria from a cost-benefit point of view.
BC304	Advanced Accounting	5	1. Prepare financial accounts for partnership firms in different situations of admission, retirement, death and insolvency of the partners

			2. Prepare financial statements for partnership firm on dissolution of the firm.
			3. Preparation of financial accounts with profits before incorporation.
			4. Demonstrate an understanding about the profits of the company and their division
			5. Understand the valuation of shares and goodwill and prepare financial statements accordingly
BC305	Income Tax I	5	1. Develop quality consultant in taxation area.
			2. Encourage the students to undertake higher studies and research in taxation with newpolicy
			3. Become the ability to find various levels of taxation in income and to suggest tax payer effectively and efficiently.
			4. Become proficiency in using information technology and accounting tools in taxation process.
BC306	Business Statistics-I	4	1. Use and understand useful functions in business as well as the concept of EMI.
			2. Understand the different concept of population and sample and to make students familiar
			with Calculation of various types of averages and variation.
			3. Learn the applications of matrices in business.
			4. Understand the students to solve LPP to maximize the profit and to minimize the cost.
			5. Use regression analysis to estimate the relationship between two variables and to use frequency distribution to make decision.
			6. Understand the techniques and concept of different types of index numbers.
BC307	Enterpreneurial Development & Business Ethics	4	1. Make the students aware about the Business and Business Environment.
			2. Develop entrepreneurial awareness among students.
			3. Motivate students to make their mind set for thinking entrepreneurship as career.
			4. Understand the role of government in promoting entrepreneurship.
			5 Understand the importance of Business Standards and business ethics
Semester - IV Computer Application			
BC401	Practice of Life Insurance	2	1. Acquaint the candidates appearing for Licentiate Examination with the different aspects of life insurance ,
			its different applications and its detailed features.
			2. It gives the reader an insight into the different types of life insurance plans & products, and its variations

			3. The method of premium calculation and bonus, the different types of annuity plans, group insurance plans etc.,
			are explained in a lucid style, for an easy understanding
			4. Topics on unit-linked policies, nomination and assignments, lapsation and revival of policies, surrender values and foreclosure,
			as also policy claims have all been brought out very well
BC404	Corporate Accounting	5	This course aims to enlighten the students on the accounting procedures followed by the Companies
			1. Student's skills about accounting standards will be developed.
			2. Make aware the students about the valuation of shares.
			3. Impart knowledge about holding company accounts, amalgamation, absorption and reconstruction of company
BC405	Income Tax II	5	1. Develop quality consultant in taxation area.
			2. Encourage the students to undertake higher studies and research in taxation with newpolicy
			3. Become the ability to find various levels of taxation in income and to suggest tax payer effectively and efficiently
			4. Become proficiency in using information technology and accounting tools in taxation process.
BC406	Business Statistics-II	4	1. Use and understand useful functions in business as well as the concept of EMI.
			2. Understand the different concept of population and sample and to make students familiar with
			Calculation of various types of averages and variation.
			3. Learn the applications of matrices in business.
			4. Understand the students to solve LPP to maximize the profit and to minimize the cost.
			5. Use regression analysis to estimate the relationship between two variables and to use frequency distribution to make decision.
			6. Understand the techniques and concept of different types of index numbers.
BC407	Object Oriented Programming with C++	4	1. Understand the difference between the top-down and bottom-up approach
			2. Apply the concepts of object-oriented programming
			3. Use features of C++ like type conversion, inheritance, polymorphism, I/O streams and files to develop programs for real life problems
			4. Develop the applications using object oriented programming with C++.
			5. Use standard template library for faster development.
Semester - IV General			

BC401	Practice of Life Insurance	2	1. Acquaint the candidates appearing for Licentiate Examination with the different aspects of life insurance ,
			its different applications and its detailed features.
			2. It gives the reader an insight into the different types of life insurance plans & products, and its variations
			3. The method of premium calculation and bonus, the different types of annuity plans, group insurance plans etc.,
			are explained in a lucid style, for an easy understanding
			4. Topics on unit-linked policies, nomination and assignments, lapsation and revival of policies, surrender values and foreclosure,
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			1. Student's skills about accounting standards will be developed.
			2. Make aware the students about the valuation of shares.
			3. Impart knowledge about holding company accounts, amalgamation, absorption and reconstruction of company
BC405	Income Tax II	5	1. Develop quality consultant in taxation area.
			2. Encourage the students to undertake higher studies and research in taxation with newpolicy
			3. Become the ability to find various levels of taxation in income and to suggest tax payer effectively and efficiently
BC406	Business Statistics-II	4	1. Use and understand useful functions in business as well as the concept of EMI.
			2. Understand the different concept of population and sample and to make students familiar with Calculation of
			various types of averages and variation.
			3. Learn the applications of matrices in business.
			4. Understand the students to solve LPP to maximize the profit and to minimize the cost.
			5. Use regression analysis to estimate the relationship between two variables and to use frequency distribution to make decision.
			6. Understand the techniques and concept of different types of index numbers.
BC-407	Financial Statement Analysis	4	1. Describe and apply the basic techniques of financial statement analysis;
			2. Explain the relationship between strategic business analysis, accounting analysis and financial analysis;
			3. Identify and utilise value-relevant information contained within financial statements;
			4. Recognise and explain the fundamental role of accounting numbers in the valuation of entities and the

			key financial claims on these entities assets (equity and debt securities);
			5. Understand the impact of financial reporting choices on the usefulness of reported earnings to predict future performance;
			6. Prepare a written analysis of a listed company, which incorporates and synthesises the strategic,
			accounting and financing techniques covered in the course;
Semester -V Computers			
BC-501	Practice of General Insurance	2	1. Describe the main features of the Australian General insurance market, including consumers, providers,
			intermediaries and other stakeholders;
			2. Understand and Analyse General Insurance and Injury Scheme products;
			3. Perform a reconciliation between two valuations of liabilities;
			4. Understand Capital Management of a General insurer, including calculation of regulatory capital;
BC-502	Introduction to Indian Economy	2	1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources
			2. Understand the importance, causes and impact of population growth and its distribution,
			translate and relate them with economic development
			3. Understand agriculture as the foundation of economic growth and development, analyse the progress and
			changing nature of agricultural sector and its contribution to the economy as a whole
			4. Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives,
			failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government
BC-503	Cost Accounting	4	1. Understand knowledge of cost accounting, single output costing, material cost, labor cost and overhead.
			2. Basic Cost concepts
			3. Elements of cost.
			4. Ascertainment of Material and Labour Cost
BC-504	Business Laws	4	1. The student will well verse in basic provisions regarding legal frame work governing the business world.
			2. Know the students with the basic concepts, terms & provisions of Mercantile and Business Laws.
			3. Develop the awareness among the students regarding these laws affecting trade business, and commerce
BC-505	Banking Theory & Practice	4	1. Enlighten the students' knowledge on Banking Regulation Acts.

			2. Give a thorough knowledge on Indian Banking System and Acts pertaining to it.
			3. Provide understanding of nature, importance, of banking sector.
			4. Know the structure of finance related areas.
			5. Impart knowledge regarding source of finance for a business
BC-507	Computerised Accounting	5	1. Make students familiar with computer environment & operating systems
			2. Introduce students with accounting packages like tally.
			3. Develop skill and knowledge among students in applications of internet in education of commerce.
BCC506	Excel Foundation	4	1. Examine spreadsheet concepts and explore the Microsoft Office Excel environment.
			2. Enter and edit data,Format data and cells.
			3. Construct formulas, including the use of built-in functions, and relative and absolute references.
			4. Summarize data with data analysis, PivotTables, and PivotCharts.
			5. Create and modify charts,Preview and print worksheets.
			6. Increase productivity with macros, templates, and custom toolbars and menus.
BCC508(a)	Web Technology	5	1. Analyze a web page and identify its elements and attributes
			2. Create web pages using XHTML and Cascading Styles sheets.
			3. Build dynamic web pages using JavaScript (client side programming).
			4. Make the web pages more dynamic and interactive.
			5. Create XML documents and XML Schema
			6. Build web applications using PHP.
Semester -V General			
BC-501	Practice of General Insurance	2	1. Describe the main features of the Australian General insurance market, including consumers, providers, intermediaries and other stakeholders;
			2. Understand and Analyse General Insurance and Injury Scheme products;
			3. Perform a reconciliation between two valuations of liabilities;
			4. Understand Capital Management of a General insurer, including calculation of regulatory capital;
BC-502	Introduction to Indian Economy	2	1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources

			2. Understand the importance, causes and impact of population growth and its distribution,
			translate and relate them with economic development
			3. Understand agriculture as the foundation of economic growth and development, analyse the progress and
			changing nature of agricultural sector and its contribution to the economy as a whole
			4. Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives,
			failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government
BC-503	Cost Accounting	4	1. Understand knowledge of cost accounting, single output costing, material cost, labor cost and overhead.
			2. Basic Cost concepts
			3. Elements of cost.
			4. Ascertainment of Material and Labour Cost
BC-504	Business Laws	4	1. The student will well verse in basic provisions regarding legal frame work governing the business world.
			2. Know the students with the basic concepts, terms & provisions of Mercantile and Business Laws.
			3. Develop the awareness among the students regarding these laws affecting trade business, and commerce
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			2. Give a thorough knowledge on Indian Banking System and Acts pertaining to it.
			3. Provide understanding of nature, importance, of banking sector.
			4. Know the structure of finance related areas.
			5. Impart knowledge regarding source of finance for a business
BC-506	Auditing	4	1. Students will be versed in the fundamental concepts of Auditing and different aspects of tax.
			2. Give knowledge about preparation of Audit report,
			3. Understand the environment and types relating to the auditing function
			4. Evaluate internal controls;
			5. Apply auditing practices to different nature of Concerns
BC-507	Computerized Accounting	5	1. Make students familiar with computer environment & operating systems
			2. Introduce students with accounting packages like tally.
			3. Develop skill and knowledge among students in applications of internet in education of commerce.

BC-508	Accounting Standards	5	1. For bringing uniformity in Accounting Methods
			2. For Improving the Reliability of the Financial Statements
			3. Simplify the Accounting Information
			4. Prevents Frauds and Manipulation
			5. Helps Auditiors
Semester VI Computers			
BC-601	Regulation of Insurance Business	2	1. The aim of the course is to introduce students to the law that governs insurance. Insurance law regulates
			many different aspects of the insurance activity
			2. It regulates the business of insurance, the content of insurance policies and the handling of claims
			3. Among all these aspects, a crucial element is the insurance contract
			4. The course illustrates these aspects with a special focus on the European legal framework
BC-602	Sectors of Indian Economy	2	1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources
			2. Understand the importance, causes and impact of population growth and its distribution,
			translate and relate them with economic development
			3. Understand agriculture as the foundation of economic growth and development, analyse the progress and
			changing nature of agricultural sector and its contribution to the economy as a whole
			4. Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives,
			failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government
BC-603	Theory & Practice of GST	4	1. Know about importance of Indirect taxes in India and the journey of GST in India
			since the year 2004
			2. List out the accounts to be maintained as per GST laws and various returns to be
			filed to get the input tax credit.
			3. Creating GST invoices etc in Tally ERP 9 (Basic Introduction)
			4. Understand the reasons behind the implementation of GST in India and its effect on all
			the sectors of Economy

			5. Practical exposure to GST in businesses
BC-604	Company Law	4	1. Impart students with the knowledge of fundamentals of Company Law
			and provisions of the Companies Act of 2013.
			2. Apprise the students of new concepts involving in company law regime.
			3. Acquaint the students with the duties and responsibilities of Key Managerial Personnel.
BC-605	Managerial Accounting	4	1. Explain the three primary purposes of management accounting namely, inventory valuation, decision support and cost control.
			2. Compare traditional and contemporary costing approaches for the above purposes.
			3. Learn how costs are analysed for different product costing contexts such as job-order, process or joint-product systems
			4. Develop and apply standards and budgets for planning and controlling purposes.
			5. Apply incremental analysis to a range of business scenarios.
BC-606	Commerce Lab	4	1. The Commerce laboratory is a new concept, wherein students practice their theoretical knowledge gained in the classroom
			2. In addition students carry on more and more experiments. Mock commerce and business activities
			are undertaken in laboratory
			3. Teacher can develop any number of practical exercises to make the candidate understand the concepts
BCC607(a)	E-Commerce	5	1. Understand the fundamental and importance of E-commerce
			2. Gain knowledge of different types in E-commerce: C2C,C2B,B2C,B2B,G2C
			3. Analyze the impact of E-commerce on business models and strategy
			4. Learn about the infrastructure for E-commerce
			5. Learn the key features of Internet, Intranets, Extranets and web technology and how they relate to each other.
			6. Assess the electronic payment systems
			7. Be familiarize with E-Marketing &E-Advertising in E-commerce.
			8. Know the legal issues and privacy in E-Commerce
BCC608(a)	Relational Database Management Systems	5	1. Demonstrate an understanding of the elementary & advanced features of DBMS & RDBMS
			2. Describe the fundamental elements of relational database management systems
			3. Explain the basic concepts of relational data model, entity-relationship model, relational database design, relational algebra and SQL.

			4. Design ER-models to represent simple database application scenarios
			5. Convert the ER-model to relational tables, populate relational database and formulate SQL queries on data.
			6. Improve the database design by normalization.
			7. Able to develop structured query language (SQL) queries to create, read, update, and delete relational database data
			8. Understand the basic concepts of Concurrency Control & database security
Semester VI General			
BC-601	Regulation of Insurance Business	2	1. The aim of the course is to introduce students to the law that governs insurance. Insurance law regulates
			many different aspects of the insurance activity
			2. It regulates the business of insurance, the content of insurance policies and the handling of claims
			3. Among all these aspects, a crucial element is the insurance contract
			4. The course illustrates these aspects with a special focus on the European legal framework
BC-602	Sectors of Indian Economy	2	1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources
			2. Understand the importance, causes and impact of population growth and its distribution,
			translate and relate them with economic development
			3. Understand agriculture as the foundation of economic growth and development, analyse the progress and
			changing nature of agricultural sector and its contribution to the economy as a whole
			4. Grasp the importance of planning undertaken by the government of India, have knowledge on the various objectives,
			failures and achievements as the foundation of the ongoing planning and economic reforms taken by the government
BC-603	Theory & Practice of GST	4	1. Know about importance of Indirect taxes in India and the journey of GST in India since the year 2004
			2. List out the accounts to be maintained as per GST laws and various returns to be filed to get the input tax credit.
			3. Creating GST invoices etc in Tally ERP 9 (Basic Introduction)
			4. Understand the reasons behind the implementation of GST in India and its effect on all the sectors of Economy
			5. Practical exposure to GST in businesses
BC-604	Company Law	4	1. Impart students with the knowledge of fundamentals of Company Law and provisions of the Companies Act of 2013.
			2. Apprise the students of new concepts involving in company law regime.

			3. Acquaint the students with the duties and responsibilities of Key Managerial Personnel.
BC-605	Managerial Accounting	4	1. Explain the three primary purposes of management accounting namely, inventory valuation, decision support and cost control.
			2. Compare traditional and contemporary costing approaches for the above purposes.
			3. Learn how costs are analysed for different product costing contexts such as job-order, process or joint-product systems
			4. Develop and apply standards and budgets for planning and controlling purposes.
			5. Apply incremental analysis to a range of business scenarios.
BC-606	Commerce Lab	4	1. The Commerce laboratory is a new concept, wherein students practice their theoretical knowledge gained in the classroom
			2. In addition students carry on more and more experiments. Mock commerce and business activities are undertaken in laboratory.
			3. Teacher can develop any number of practical exercises to make the candidate understand the concepts
BC-607	Finanacial Institutions & Markets	5	1. Enable the students with Financial Markets and its various segments.
			2. Give the students and understanding of the operations and developments in financial markets in India.
			3. Acquaint them to gain an insight into the functioning and role of financial institutions in the Indian Economy
BS-608	Advanced Corporate Accounting	5	This course aims to enlighten the students on the accounting procedures followed by the Companies
			1. Student's skills about accounting standards will be developed.
			2. Make aware the students about the valuation of shares.
			3. Impart knowledge about holding company accounts, amalgamation, absorption and reconstruction of company