PROGRAMME:- BACHELOR OF ARTS (B.A.)

PROGRAMME OUTCOME

Sr.No	Programme Outcome
PO1	To understand and learn humanities at its core for the knowledge surrounds us.
PO2	To equip students with social science knowledge as to seek jobs in public service.
PO3	To make students aware about social, moral and ethical values through learning
	humanities.
PO4	To inculcate and propagate culture and world social heritage amongst the students
PO5	To enhance and develop student's ability to grasp, understand and utilise the
	knowledge of arts, and humanity into research.
PO6	To equip students of humanities for the opportunities in higher education.

PROGRAMME SPECIFIC OUTCOME:

DEPARTMENT OF ECONOMICS

SR.NO	PROGRAMME OUTCOME
01	Economic graduates understand the knowledge and application of Micro economics
	and Macroeconomics concepts for the formulation of policies and planning, they are
	also made aware about basic economic tools used by the academicians,
	governments and policy makers.
02	Economics students in general will be able to understand and analyse the past
	present economic conditions of the country which enable them to forecast the future
	course of changes and development through the knowledge of policies and
	programmes of the government and other economic agents.
03	The department teach the various aspects of International Trade theories and
	practices and the issues of the real world.
04	Graduates are made aware about the system, functioning and reforms of Indian
	Financial System.
05	The department teach the Classical, Neo-classical and Modern Growth and
	Development theories to the students to make them aware about the real world
	situation of development.
06	Economics students in general will be able to understand the concepts, causes,
	challenges of the current economic scenario and are equipped with the techniques to
	find the solution with the available resources.

COURSE OUTCOMES:

B.A. ECONOMICS

SEM: I MICRO ECONOMICS-I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the concepts, scope, nature and limitations of Micro Economics and basic economic problems.	Students understand the concepts, tools of Micro Economics and also the role of price mechanism in the market economy.
02	To teach them Ten Principles of Economics.	Students understand the significance of opportunity in decision making, role of government in improving market.
03	To teach students the concept of market, demand, supply.	Students understand different types of market based on competition, market demand and market supply and the determination of equilibrium and elasticity of demand.
04	To introduce the cardinal and ordinal approach for understanding the consumer's behavior.	Students understand the consumer's equilibrium and consumer's surplus with the help of Indifference Curve and price line.

SEM: II MICRO ECONOMICS

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the concepts of production functions, total average and marginal product, isoquants and producers equilibrium.	Students understand the concepts and determination of producers equilibrium and various factors determining production function.
02	To introduce the concepts of costs and revenue. To teach them the derivation and calculation of costs and cost curve.	Students understand the concept and calculation of cost and revenue in different markets.
03	To teach students the concept of factor pricing theories, Ricardian theory, Loanable fund theory and Innovation theory.	Students get the background of various classical theories of factor pricing.
04	To introduce the concept of equilibrium and features of different markets and their equilibrium in the short-run and long-run period.	Students understand the different types of markets based on competition and their equilibrium in short-run and long-run period.

SEM: III MICRO ECONOMICS

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the concept of preferences, utility, indifference curve and consumer equilibrium.	Students understand the concept of utility analysis and consumer's equilibrium with the help in indifference curve and price line.
02	To teach the concept and theory of production analysis and producer's equilibrium.	Students learn the various concept and types of production function and producer's equilibrium.
03	To teach students the concept of cost and revenue and derivation of cost curve in the short-run and long-run period.	Students learn the concepts, calculation and derivation of cost, indifferent markets.
04	To understand the competitive markets, their equilibrium and concept of consumer and producer surplus and economic efficiency.	Students understand the features and short-run and long-run equilibrium under perfect competition and also learn about how an economy attains economic efficiency.

SEM: III INDIAN ECONOMY: CONTEMPORARY CONCERNS

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach the students the concepts, objectives and analysis of demonetization in India.	Students understand the objectives of economic history, short-term cost and long term benefits and the future policy measures to maximizing benefits and minimizing the cost of demonetization.
02	To study the need for cyclical fiscal policy in India and the fiscal rules with the help of debt dynamics and budget process.	Students learn the FRBM Act and also understand the need for counter cyclical fiscal policy in India.
03	To teach students the concept of universal basic income and the arguments for and against UBI and issues and challenges in achieving UBI.	Students learn the concepts, issues and the measures for universal basic income.
04	To understand the income, health and fertility convergence within India.	Students understand and able to compare income, health and fertility convergence in Indian states.

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
01	To introduce the concept of money	Students understand the concept of
	supply and quantity theory of	money supply, determinants and
	money.	constituents of money supply.
02	To teach students the motives for	Students learn the various motives for
	holding money and money market	holding money and how money market
	equilibrium.	attains equilibrium.
03	To teach students the concept of	Students learn the concepts of MEC
	saving functions and investment	and investment function and the
	demand, goods market equilibrium.	determination of goods market
		equilibrium.
04	To teach students the simultaneous	Students understand the significance
	equilibrium in the goods and money	and effectiveness of monetary and
	market and the effect of monetary	fiscal policy on simultaneous
	policy and fiscal policy on	equilibrium in the goods and money
	equilibrium.	markets.

SEM: IV INDIAN ECONOMY

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
01	To introduce the Maharashtra's	Students understand the economy of
	economy with special reference to	Maharashtra, factors determining
	Demography, key indicators of	development and the macroeconomics
	Development and development of the	development of the region.
	region and paradigm shift.	
02	To teach the importance of tribal	Students learn the present status of the
	areas, present status, comparison with	tribal areas with reference to PCI,
	other states, causes of deprivation and	poverty, nutrition, health and
	reforms undertaken.	education and the causes deprivation
		and reforms undertaken for the tribal
		in the Maharashtra.
03	To teach them about water resources	Students learn the issues, availability,
	with reference to availability,	government policy and
	overview of irrigation development,	recommendation for water distribution
	rural-urban water supply and	in the state of Maharashtra.
	recommendation for balanced	
0.4	development.	
04	To teach students the health and	Students understand the health care
	connectivity, issues and government	system, regional disparities, general
	measures.	overview of connectivity required for
		development.

SEM: V

MICRO ECONOMICS-III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach students sources, price discrimination, price and output determination under monopoly.	Students understand how a firm acquires monopoly status and the equilibrium of the monopoly with maximum profits.
02	To introduce the basic game theory to the students.	Students learn basic game theory which are applied in the practical decision making process.
03	To teach students about oligopoly market, models, collusion and cartels and the concept of price leadership.	Students learn various oligopoly model and the concept of collusion, cartel and price leadership.
04	To introduce the general equilibrium and welfare economics to the students.	Students understand the concept of general equilibrium and the Pareto-optimality condition of social welfare.

SEM: V

ECONOMICS OF DEVELOPMENT

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach students concept of economic growth and development.	Students learn the concept of HDI, GDI, green GDP and sustainable development.
02	To teach students the structural issues in development process with development theories and growth model	Students learn various classical and neo-classical development theories and the role of education, health and nutrition in economic development.
03	To teach students the concept and theories of inequality, poverty and development.	Students learn concepts and the theories of inequality, poverty and inclusive growth and the importance of SHGs, microfinance.
04	To teach the role of technology and infrastructure in economic development and the type of technical progress.	Students understand the importance, types, issues of technology and infrastructure in economic development.

SEM: V

FINANCIAL ECONOMICS

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach students the basic theory of interest, discounting and present value for investment and portfolio analysis.	Students learn investment and portfolio analysis with the help of various theories of interest.
02	To teach students the concept of capital asset, pricing model in investment and pricing formula.	Students learn about capital asset pricing model, asset portfolio, security market line.
03	To teach students the concept, functions and types of derivative, forward and futures and options.	Students understand the concept and types of derivatives, options and futures.
04	To teach students the component structure and the types of corporate finance.	Students understand the functioning, financing components of corporate finance.

SEM: VI

MACRO ECONOMICS

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach students the goods market in an open economy, GDP and trade balance.	Students understand the concept of trade balance, real exchange rate and the exchange rate policy in an open economy.
02	To teach students the LM equation for open economy and MundellFlemming model.	Students learn LM equation in an open economy and the uncovered interest parity and its implications for exchange rate determination.
03	To teach students the concept of exchange rate regimes and exchange rate crises.	Students learn about the choice of exchange rate regime and the exchange rate crisis in an open economy.
04	To teach students the history of international monetary system since 19 th century.	Students learn about the monetary system since 19 th century and different international monetary institutions.

SEM: VI

INTERNATIONAL ECONOMICS

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce students international economics, overview of world trade and the trade theories.	Students learn about the component, issues of international economics.
02	To teach students the classical, neo-classical and modern theories of international trade.	Students get background knowledge of international trade theory and the recent trade issues and policies.
03	To teach students the importance of trade and recent trends.	Students learn the importance, types, supply chain, FDI and BPO.
04	To teach students the trade policies and regionalism.	Students learn about the instrument of trade policy, regional trade and agreements, controversies in trade policies and protectionism.

SEM: VI

INDIAN FINANCIAL SYSTEM

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach students the structure, trends, issues of Indian financial system.	Students learn the structure, components, indicators of financial development, reforms of Indian financial system since 1990.
02	To teach students the performance and development in commercial banking sector since 1990.	Students learn the development and reform in commercial banking and the changes in RBI monetary policy since 1990s.
03	To teach students the structure, features and reforms in money and capital market in India.	Students understand the structure, issues, reform of money and capital market in India.
04	To teach students the development and progress of NBFCs and credit rating agencies in India.	Students learn about the importance, progress, reforms in NBFCs.

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF ENGLISH

Sr.No	Programme Specific Outcome
PS0 1	To understand the local, state, national and international literary contributions with
	its relevance in the studies of humanities.
PSO2	To develop an overall literary competencies of students through the genres of
	literary arts and interdisciplinary studies.
PSO3	To bring out the social, cultural and geographical elements through
	literary works and make students aware for its relevance in their
	lives.
PSO4-	To establish the balance of lives drawn from varied literary arts studied by the
	students.
PSO5-	To study literature for morals, teachings and pleasure.

COURSE OUTCOMES

B.A. ENGLISH

SEM: I & II

INTRODUCTION TO LITERATURE-I/II

Syllabus (Unit	Objectives	Outcome
Wise)	Objectives	Outcome
Module I Literary terms/ critical terms	To familiarize learners with terms and concepts as measures or yardsticks to interpret, evaluate and analyse literature. Further to acquaint students with the characteristics of various literary genres. The student start understanding genres of literature by interpret prescribed texts.	
Module II Novels/ Drama	To understand various literary discourses and registers through novels and dramas. The close reading of the texts develops their critical thinking and analytical skill.	The students are able to make distinction between the said registers and understand various novelistic discourses as well as dramatic actions for the culture and context of the said literary work
Module III Short Stories/ poems	To extract moral teachings and values from short stories/poems. This does enable students student's to understand that literature is an expression of human values within historical and social context.	The learners deploy learnt lessons into their practical lives drawn from stories and poems which sensitize then towards humans, animals and nature.

SEM: I & II COMMUNICATION SKILLS IN ENGLISH PAPER I/II

Syllabus (Unit	Objectives	Outcome
Wise)	•	
Module I	To enhance the learner's	The students are able to categorize
Grammar/	communication skill by giving	communication and use it practically
tenses/ skills of	adequate exposure in reading,	in daily life.
language.	writing, listening and speaking	
	skills and the related sub skills.	
Module II To help the learner's to recognize		The learner's will purposefully select
Writing skills/	and operate in various styles and	appropriate channel to communicate.
business	registers in English.	The students exhibit good behaviour
correspondences		and refined manners in writing
		activities like letters and reports.
Module III	To built up the learner's	The learners are able to aptly use
Essay writing/	confidence in written/ oral and	different forms of written
email writings	interpersonal communication by	communication.
	reinforcing writing activities and	
	oral tasks.	

SEM: III & IV AMERICAN LITERATURE

Syllabus (Unit Objectives		Outcome
Wise)		
Module I	To familiarize learners with terms	The student start understanding the
Literary terms/	and concepts as measures or	genres of literature by interpreting
critical terms	yardsticks to interpret, evaluate	prescribed texts.
	and analyse literature	
Module II	To understand various literary	The students are able to make
Novels/ Drama	discourses and registers through	distinction between the said registers
novels and dramas.		and understand various novelist
		discourses as well as dramatic actions.
Module III	To extract moral teachings and	The learners deploy learnt lessons into
Short Stories/	values from short stories/poems.	their practical lives drawn from stories
poems	-	and poems.

SEM: III & IV INDIAN LITERATURE

Syllabus (Unit Wise)	Objectives	Outcome
Module I	To familiarize learners to the	The learners understand and appreciate
Literary/	uniqueness and indianness of	the history and development of Indian
Critical Essays	Indian literature. literature through the essays.	
Module II	To develop a novelistic approach The learner's are able analyse the	
Novel/ Drama	amongst students through given	prescribed novels.
	novelistic discourses.	
Module III	To extract morals and values based	The learners deploy lessons with
Short Stories/	teachings from the short stories	purpose into their practical lives.
poems		

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF HISTORY

SR.NO	PROGRAMME SPECIFIC OUTCOME
	On completion of the course B.A. in History students will be able to :-
01.	Understand the phases in Regional, National and International history.
02.	Understand the importance of Indian culture and heritage.
03.	Learn values and ethics like liberty, equality, fraternity, freedom etc.
04.	Take interest in archaeological and museology branches.
05.	Pursue post-graduation, then NET/SET for Teaching.
06.	Prepare for the competitive examinations like UPSC and State civil services.

COURSE OUTCOMES:

B A HISTORY

SEM-I

HISTORY OF MODERN INDIA (1857 – 1947)

SYLLAB US (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT-1	To make the student aware of the events between revolt of 1857 and the foundation of Indian National Congress	After the completion of this unit, the student must be able to know what were the causes and consequences of the revolt of 1857 Student must be able to understand the founding and working of various Provincial Associations Student must be able to understand the founding and working of the Indian National Congress in its initial stages
UNIT-2	To make student aware regarding moderates and extremist politics and the growth of revolutionary nationalism	After the completion of this unit, the student must be able to know the leaders of the moderate politics, its role, objectives and work in the growth of Indian National Movement Student must be able to know the leaders of the Extremist politics, its role, objectives and work in the growth of Indian National Movement Student must be able to understand revolutionary movements in different parts of India and their significance

UNIT- 3	To make student	After the completion of this unit, the student must be able to
	aware about the	know the Non co operation movement and it's significance.
	Gandhian	Students must be able to know the role of different sections of
	movements	the society in civil disobedience movements
		Students must be able to know the causes, role and
		significance of the quit India movement
UNIT -4	To make students	After the completion of this unit, the student must be able to
	aware about the	understand act of 1935, Cripps mission, cabinet mission and
	events that led to	Mountbatten plan
	partition	Student must able to understand independence and partition
		of india

SEM-II

HISTORY OF MODERN INDIA: SOCIETY & ECONOMY

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
UNIT - 1	To make	After the completion of this unit, the student must be able to
	students aware	understand various reforms movements of the Indian
	of socio	society and also it's impact
	religious	
	reform	
	movements:-	
	Reforms and	
	Revival	
UNIT - 2	To make	After the completion of this unit, the student must be able to
	students aware	understand the education system and it's importance
	of the	To understand development of Press, Means of Transport
	Education,	and Communication
	press and	
	Transport in	
	British period	
UNIT- 3	To make	After the completion of this unit, the student must be able to
	students aware	understand Revenue settlements commercialization of
	of the impact	Agriculture
	of the British	Students must be able to understand Drain theory,
	on Indian	deindustrialization and growth of large scale industry
	economy	
UNIT- 4	To make	After the completion of this unit, student must be able to
	students aware	understand the role of women, Dalits, Peasants and Tribals
	of Nationalism	during National movement
	and social	
	Groups	

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT -1	To make students aware of Renaissance, Geographical Discoveries and reformation	After the completion of this unit, student must be able to understand the contribution and spread of renaissance movement to different parts of Europe Students must be able to understand geographical discoveries by eminent voyagers Students must be able to understand the reformation process, role of Martin Luther and protestants vscatholicism
UNIT - 2	To make students aware of different revolutions	After the completion of this unit, student must be able to understand the causes, course and consequences of American revolution, French revolution and Industrial revolution in europe
UNIT - 3	To make students aware of nationalism and imperialism in Europe	After the completion of this unit, student must be able to understand the formation of nation - states in Europe Students must be able to understand nationalist movements in Italy and role played by Mazzini, Count Cavour and Garibaldi Students must be able to understand nationalist movement in Germany and Bismarck role in final unification of Germany Students must be able to understand the imperial expansion by various European powers in Asia
UNIT - 4	To make students aware of the transition phase in Europe (1914-1918)	After the completion of this unit, student must be able to understand the causes, course and consequences of world war I Students must be able to understand the Russian revolution and the role of Lenin Students must be able to understand the formation, organisation and works done by League of Nations

SEM-III ANCIENT INDIA /III

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
UNIT-1	To acquaint the	After the completion of this unit, student must be
	students with	able to understand Archaeological, literary and
	different sources of	Foreign Travellers sources
	ancient Indian	
	History	

UNIT-2	To enable the	After the completion of this unit, student must be
	students to	able to understand socio - eco - religious life
	understand Indus	Students must be able to understand town planning
	valley civilization	and decline of the civilization
	and it's evidences	
UNIT-3	To enable the	After the completion of this unit, student must be
	students to	able to understand the concept of janapada, social
	understand the Vedic	economic and religious life of the Vedic age
	Age	
UNIT-4	To make students	After the completion of this unit, student must be
	aware of the	able to understand the administrative structure of
	developments in india	Mahajanapadas
	after 6th Century	Students must be able to understand Rise and decline
	B.C.	of Jainism and Buddhism
		Students must be able to understand foreign
		invasions

SEM-IV

LANDMARKS IN WORLD HISTORY/ II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
UNIT_1	To make students	After the completion of this unit, student must be
	aware of events that	able to understand the Modernization of Turkey
	took place in inte war	through Kemal pasha
	period	Students must be able to understand reforms in Iran
	1	under Reza shah and formation of Israel as a nation
UNIT_2	To make students	After the completion of this unit, student must be
	aware of the powerful	able to understand the role of Mussolini in creating a
	personalities who	fascist state in Italy
	ruled a s a dictator	Students must be able to understand the rise of
		Nazism in Germany under the dictatorship of Hitler
		Students must be able to understand the Militarism in
		Japan
UNIT_3	To make students	After the completion of this unit, student must be
	aware of the	able to understand the causes, spread and the
	development that led	consequences of the World War II
	to disastrous	Student must be able to understand the Atlantic
	consequences for	charter and formation of U.N.O.for world peace
	Europe in particular	
UNIT_4	To make students	After the completion of this unit, student must be
	aware of the	able to understand the nationalist movements in
	circumstances that	China, India and Indonesia.
	led to the rise of	
	antionalist	
	movements in Asia	

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT-1	To make students aware of the Significance of Mauryan and post Mauryan dynasties	After the completion of this unit, student must be able to understand the expansion and policies under the Mauryan kings. Student must be able to understand the administration under the Mauryas. Student must be able to understand the role of post Mauryan dynasties.
UNIT-2	To make students aware about the contributions in the Gupta age	After the completion of this unit, student must be able to understand the expansion under the Gupta kings, administrative structure of gupta period. Student must be able to understand the concept of classical age under the Guptas.
UNIT-3	To make students aware of the Post- Gupta events in North India	After the completion of this unit, student must be able to understand the campaigns of Harsha and it's administration. Student must be able to understand the Rise of Rajput powers. Students must be able to understand the factors and consequences of Arab invasion of Sind.
UNIT-4	To make student aware of the various dynasties and culture of Deccan and South india	After the completion of this unit, student must be able to understand the powers of chalukyas, Rashtrakutas, Pallavas, Cholas Student must be able to understand the culture spread in South East asia

SEM-V <u>HISTORY OF MEDIEVAL INDIA (1000 CE- 1526 CE) / IV</u>

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
UNIT-1	To make students	After the completion of this unit, student must be
	aware of the	able to understand the socio- eco and political
	foundation, Expansion	conditions before Turkish invasion
	and decline of Delhi	Student must be able to understand the rise and fall
	Sultanate	of various dynasties in Delhi Sultanate
UNIT-2	To make students	After the completion of this unit, student must be
	aware of the	able to understand the administration, iqta system
	Administration during	and reforms led by rulers of the Delhi Sultanate
	Delhi Sultanate	
UNIT-3	To make students	After the completion of this unit, student must be
	aware of the Deccan	able to understand the rise, growth and decline of
	powers like	Vijayanagarkingdom and Bahamani Sultanate
	Vijaynagarkingdoman	Student must be able to understand the
	dBahamani Sultanate	administration, socio-eco and cultural conditions in

		the Deccan states
UNIT-4	To make students	After the completion of this unit, student must be
	aware of the progress	able to understand the Society and Economy during
	and growth in various	the study period
	spheres of life during	Student must be able to understand the religion and
	study period	culture during the study period

SEM-V HISTORY OF MODERN MAHARASHTRA (1818-1960 A.D) / V

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
UNIT-1	To acquaint students	After the completion of this unit, student must be
	with regional history	able to understand the socio-eco conditions,
	under British rule	administration, judiciary, tribal and peasant uprising
UNIT-2	To make students	After the completion of this unit, student must be
	understand the socio-	able to understand social and economic reformers
	economic awakening	
	during 19 th and 20 th	
	centuries	
UNIT-3	To make students	After the completion of this unit, student must be
	understand the	able to understand moderates, extremists
	political development	revolutionaries, Gandhian movements and Samyukta
	during 19 th and 20 th	Maharashtra Movement
	centuries	
UNIT-4	To make students	After the completion of this unit, student must be
	aware of reforms by	able to understand contribution of reformers in
	enlightened leaders in	education, emancipation of women and upliftment
	various spheres	of depressed classes

SEM-V

INTRODUCTION TO ARCHAEOLOGY / VI

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
UNIT-1	To make students	After the completion of this unit, student must be
	aware about aims and	able to understand the basic facets of Archaeology
	methods of	
	Archaeology	
UNIT-2	To make students	After the completion of this unit, student must be
	aware about Pre, Proto	able to understand Palaeolithic, Mesolithic,
	and Early Historical	Neolithic, Chalcolithic, Megalithic and early
	periods	historical periods

UNIT-3	To make students	After the completion of this unit, student must be
	aware of study of	able to understand history, types ,evolution and
	inscriptions during the	importance of epigraphy
	study period	
UNIT-4	To make students	After the completion of this unit, student must be
	aware of study of	able to understand history, types ,evolution and
	coins during the study	importance of Numismatics
	period	

SEM-VI

HISTORY OF MEDIEVAL INDIA (1526 – 1707 A.D) / IV

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT-1	To make students aware of the political events during the Mughal period	After the completion of this unit, student must be able to understand beginning, expansion and decline of the Mughal rule
UNIT-2	To make students aware of the Administration of the Mughals	After the completion of this unit, student must be able to understand central and provincial Government Students must be able to understand the Mansabdari system and Revenue system during
		mughal
UNIT-3	To acquaint students to study the rise of the Maratha Power	After the completion of this unit, student must be able to understand role of shivaji in foundation of Swaraj Students must be able to understand role of Sambhaji, Rajaram and Tarabai
UNIT-4	To make students aware of the progress and growth in various spheres of life during study period	After the completion of this unit, student must be able to understand socio- economic, Cultural, religious and Educational life during the Mughal period

SEM-VI HISTORY OF CONTEMPORARY INDIA (1947 – 2000 A.D.) / $\rm V$

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
UNIT-1	To acquaint students	After the completion of this unit, student must be
	with the developments	able to understand the process of making the
	during Nehru era	constitution and the integration of states
	(1947 – 1964 CE)	

UNIT-2	To make students understand political, social and economic developments (1964- 1984 CE)	After the completion of this unit, student must be able to understand developments under congress and janta party regime
UNIT-3	To make students understand political, social and economic developments (1984 -2000 CE)	After the completion of this unit, student must be able to understand political developments, LPG and India's relation with neighbouring countries
UNIT-4	To make students understand the emerging trends in contemporary India	After the completion of this unit, student must be able to understand communalism, separatist movements, reservation, women empowerment and development in science and technology

SEM-VI INTRODUCTION TO MUSEOLOGY AND ARCHIVAL SCIENCE / VI

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT-1	To inform the students about the role of Museology	After the completion of this unit, student must be able to understand museology, role of curator and types of museums
UNIT-2	To inform the students about the different methods used in the museums	After the completion of this unit, student must be able to understand methods of collection, conservation and preservation
UNIT-3	To make students understand the importance of Archival science in the study of history	After the completion of this unit, student must be able to understand archival science, its classification and also a value of records
UNIT-4	To make students aware of the management of Archives	After the completion of this unit, student must be able to understand appraisal, retention, conservation, preservation of records and digital archives

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF POLITICAL SCIENCE

SR.NO	PROGRAMME SPECIFIC OUTCOME
PS0 1	Understanding the nature and developments instate, national and international politics.
PSO2	Analysing the Indian constitutional provisions, major legislations
	and reforms.
PSO3	Critical evaluation of social, economic and political variables for a proper
	understanding of the plurality of Indian society.
PSO4-	Building overall consciousness regarding national political history, international
	relations and present Indian and Western political thinkers.
PSO4-	Encouraging a comprehensive, comparative understanding of political
	structures and constitutions of developed and developing countries.
PSO5 -	Developing knowledge of administrative studies with special
	reference to Indian administrative structures and practices.
PSO6-	Examining India's foreign relations with her neighbours and great powers.

COURSE OUTCOMES:

B. A. POLITICAL SCIENCE

SEM-I & II Paper I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Module I	To explain the brief history of the making of Constitution To explain the Preamble and its basic features	Learners get an idea about the making of Constitution and develop a knowledge about its silent features Learners understand the importance of preamble and features of Constitution.
Module II	To make Learners aware about their Fundamental Rights To explain the Directive Principles of state policy	Learners develop an understanding about citizens Fundamental rights Pupils understand the directive principles of state policy

Module III	To teach Learners about the	Lagrange got to Irnovy about the
Module III		Learners get to know about the
	legislature	legislature structure and process.
	To make Learners aware about	They understand the working of single
	the Judicial system and Judicial	integrated judicial system of India
	Activism in India	
Module IV	To explain the role and functions	Learners gain a knowledge about the
	of union executive	role and functions of union executive
	To provide explanation about the	They come to know about the
	local self government	importance of local self government
		and 73 rd and 74 th amendments
Module V	To teach Indian Federal System.	The learner relates the federal aspects
	To acquaint with Centre State	with working of Centre State
	Relations	Relations
	To discuss the Changing	Discuss and debate the Changing
	Dynamics of Centre-state	Dynamics of Centre-state Relations.
	Relations.	
Module VI	To discuss the role and	Understands the Manifesto and
	Importance of Pol. Parties.	Agenda of Regional Parties in
	To examine the Electoral	Maharashtra.
	Performance and Party	Transition in the second secon
	ideologies	
Module VII	To examine the Social Dynamics	Realize the need to solve the social
Module vII	of Caste, Religion and Gender	dynamics
	politics	dynamics
Module VIII	*	To relate the Challenges to National
Module VIII	To understand the Challenges to	To relate the Challenges to National
	National Seciurity like Terrorism	Seciurity like Terrorism and
	and Insurgency	Insurgency with ciurrent situation in
		nation.

SEM-III &IV Paper ll

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Module 1	To introduce the concept and	Learners came to know about the
	meaning of political theory	meaning and concept of political
	To explain the significance,	theory
	nature and approaches related to	Learners understand the importance
	political theory	od studying political theory
Module 11	To teach the concept of state	Learners gets aware about the concept
	To explain the concept of Nation	of state
	State and Civil Society	Pupils developed an understanding
		about the Nation state and civil society
Module III	To introduce the concept of	Learners come across the meaning
	power and authority	concept and importance of power and
	To examine the concept of	authority
	legitimacy	They Learn about the significance of
		legitimacy

Module Lv	To explain the concept of law	Learners gets familiar with the
	To examine the meaning nature	concept of Law
	of political obligation and	They understand the political
	highlight the Right t to Resist	obligation and importance of
		resistance
Module V	To study Nature and Theories of	The Learner gets information about
	Rights	nature and theories of Rights
	To examine the Three	They understand the Three
	Generations Of Rights	Generations Of Rights.
Module VI	To discuss the Basic Political	Learner relates the Basic Political
	Value	Values in Day to Day life
	To describe the concepts of	
	Liberty, Equality and Justice	
Module VII	To explain the concept of	Learner is acquainted with the concept
	Democracy	of Democracy
	To review the challenges to	The challenges to Democracy are
	Democracy	discussed and debated.
Module VIII	To understand the political	They relate the Political Ideologies
	Ideologies like Marxism,	and Political System
	Fascism, Feminism	

SEM-III &IV Paper III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Module 1	To introduce the meaning, scope and significance of Public Administration To explain the evolution of Public Administration as a discipline	Learnersunderstand the meaning, scope and importance of Public Administration Learner developed an understanding about the various evolutionary paradigms of Administration
Module ll	To make Learners aware about the various theories of Administration like: O Scientific Management theory of F. W. Taylor O Bureaucratic Theory of Max weber O Human Relation theory of Elton Mayo	Learnerscame across the various theories of Administration Pupils gets to know the contribution of various thinkers in the theories of Administration
Module III	To explain the various theories of organisation To explain the Motivational and Leadership theories	Learners understand the theories of organisation They came to know the Motivational and leadership theories

Module IV	To teach about the contemporary Techniques of Administration like: O Good Governance E-Governance Public Private Partnership	Learners gets aware about the contemporary Techniques used in Administration They came across the growing importance of Good – Governance, E-Governance and Public Private Partnership in the administrative practices
Module V	To study Salient Features of Indian Administration To examine role of District Administration	Understands Salient Features of Indian Administration and the role of District Administration
Module VI	To describe the recruitment and training process of All India Services.	The learner relates the theoretical and Practical process of recruitment and training of All India Services.
Module VII	To discuss the Budget making and Enactment process To review the working of Parliamentary Committees	Understands the Budget making and Enactment process The working of Parliamentary Committees is analysed
Module VIII	To teach about the concepts o Integrity oin Administration o LokPal and Lokayukta o Citizens Charter	The Learner understands the concepts of Integrity oin Administration LokPal and Lokayukta Citizens Charter

SEM:V& VI Paper IV

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Module I	To teach the concept and	The student learn about the
	approaches to Int. Relations	approaches to Int. Relations and
	To clarify the relevance of Int.	relevance of Int. Politics
	Politics	
Module II	To explain the concept of Cold	The learner will get an idea the
	war	concept of Cold war
	To examine the phases of Cold	Understanding of the various phases
	war	of Cold war
Module III	To explain types and nature of	The pupils understand the nature and
	conflict in international order	type of conflicts
	To aware the Learners about	Learner build an understanding
	various concepts of peace and	about importance of peace and
	importance of collective security	collective security

Module IV	To make Learner familiar about	Learner learn about the various
	different Bretton Wood's	international institutions
	institutions	The learn get an idea about the role
	To examine the role of regional	of regional organisation and develop
	organisation and Globalisation in	an understanding about the
	international relations	Globalised world order
Module V	To discuss the Foreign Policy and	Learns about the Foreign Policy and
	Diplomacy	Diplomacy
	To describe the Factors	Understands the Factors determining
	determining Indian Foreign Policy	Indian Foreign Policy
Module VI	To discuss India's Relation with	Identify the prospects in India's
	Major Powers like USA, Russia	Relation with Major Powers like
	and China	USA, Russia and China
Module VII	To discuss India's Relation with	Understands and Coorelate India's
	her Neigbour like Pakistan and	Relation with her Neigbour like
	Bangladesh. Also study SAARC	Pakistan and Bangladesh. And study
		the role of SAARC
Module VIII	To describe India and UN	The learner studies India and UN
	peacekeeping efforts	peacekeeping efforts at UN
	To discuss about ASEAN	Understands the working of ASEAN

SEM:V& VI Paper V

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Module I	To make Learners understand	Learners gets to know the ideas of
	about the Niccolo Machiavelli 's	Niccolo Machiavelli on modern
	views on modern powerful state	state
	and highlight his advices to the	
	prince	The Learners understand the social
	To examine John Locke's social contract theory	contract theory of John Locke
Module II	To explain john Stuart Mill's views	Learners became aware about the
	on liberty and representative	Mill's contribution towards liberty
	government	and representative government
	To examine John Rawls theory of	Learners learnt the Rawls theory of
	Justice	Justice
Module III	To explain the karl Mark's	Learners came to know about the
	observation on revolution and class	Mark's views on revolution
	conflict	Learners understand the concept of
	To examine Antonio Gramsci	hegemony and counter hegemony
	thoughts about hegemony and counter hegemony	
Module IV	To show the impact of Simone De	Pupils learnt about the contribution
	Beauviour ideas on feminism and	of Simone De Beauviour in
	existentialism	strengthening feminism
	To highlight the Will Kymlicka's	Learners developed an
	ideas on Liberal Multiculturalism	understanding about the Will
		Kymlicka's Multiculturalism

Module V	To explain The Concept of State with reference to views of M.K Gandhi and Ranade	The Learner develops an understanding of State as viewed by M.K Gandhi and Ranade.
Module VI	To highlight the ideas on Tagore And Savarkar on Nationalism	The Learner Coorelates the Idea of Nationalism and nation
Module VII	To examine Dr Ambedkars thoughts on Social and Cultural Transformation. To explain Agarkars views on Radical reforms.	Learners developed an understanding about the Dr Ambedkars thoughts on Social and Cultural Transformation. Learners come to know about the views of Agarkar on Radical reforms.
Module VIII	To show the impact of Nehruvian ideas on Socialism and eco.Dev. To Examine M.N. Roy's Idea about Socialism	Analysed the impact of Nehruvian ideas on Socialism and eco.Dev. Realised the importance of M.N. Roy's Idea about Socialism

SEM:V&VI Paper VI

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Module I	To teach historical background of	Pupils developed an understanding
	Maharashtra	about the historical background of
	To examine the idea of Samyukta	Maharashtra
	Maharashtra	Learnersgets to know the struggle
		behind the formation if Maharashtra
Module ll	To enlighten the Learnersabout the	The Learners aware about the
	regional disparities in Maharashtra	regional imbalances in the state
	To highlight the various steps	Learnerscame to know various
	taken to remove the regional	development taken in the direction to
	disparities	overcome regional disparities
Module III	To make Learnersaware about the	Pupils learnt about the Legislative
	various political institutions in	assembly and Legislative council
	Maharashtra	Learnersunderstand the role and
	To examine the role of Governor,	functions of Governor, chief minister
	Council of ministers headed by	and Judiciary
	Chief Minister and importance of	
	independent Judiciary	
Module IV	To explain the dominance of Caste	Learnersunderstand the importance
	politics in Maharashtra	of caste politics in Maharashtra
	To highlight various Dalit	Learners came to know about the
	movement in shaping	various Caste movements in
	Maharashtra's politics	Maharashtra

Module V	To discuss Politics-Economy	Understand the Nexus between
	Relationship	Politics-Economy .
	Cooperative Sector	Learn about Cooperative Sector and
	Land Issues	Land Issues in Maharashtra.
Module VI	To Discuss the role and	Understands the Manifesto anfd
	Importance of Pol.Parties,	Agenda of Regional Parties
	Electoral Politics and Party	
	ideologies	
Module VII	To understand the concept of	To relate the challenges of Naxalism
	Naxalism and Farmers Movement	and Farmers Movement with current
		situation in nation.
Module VIII	To make Learner familiar about	The learner studies the alternate
	Alternate Models of Development	models of Development in
	To examine the Environmental	Maharashtra
	policies in Maharashtra	Also is familiarised by the
	Review the RTI Act in	Environmental policies in
	MAharashtra	Maharashtra
		Analyse the RTI Act in MAharashtra

ROGRAMME SPECIFIC OUTCOME

DEPATMENT OF ISLAMIC STUDIES

SR.NO	PROGRAMME SPECIFIC OUTCOME
IS01	To give the knowledge of socio-political and religious expression of the
	Jahiliyyahdays, the prophets period, and Prophet Muhammad life at Makkah
	Understanding the basic tenets and social principles of Islam
IS02	To give the knowledge of Prophet Muhammad's life at Madinah and his efforts to
	establish Islamic state at Madinah
IS03	To develop the knowledge of Quanic studies, Hadith literature, Fiqh and cultural
	aspect of Islam.

Course Outcomes:

B A ISLAMIC STUDIES

SEM-I HISTORY OF ARABS-I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
MODULE I	To teach social, political and	The students will get the knowledge
	religious conditions of pre-	of social, political and religious
	Islamic Arabia	conditions of pre-Islamic Arabia
	To discuss the lineage, birth,	Students will get the knowledge of
	childhood and youth of Prophet	lineage, birth, childhood and youth of
	Muhammad (SAW)	Prophet Muhammad (SAW)

MODULE-II	To discuss the life of Prophet Muhammad at Makkah, his marriage, attainment of Prophethood, message of Islam and its propagation.	The students will learn about the life of Prophet Muhammad at Makkah, his marriage, attainment of Prophethood, message of Islam and its propagation.
Module III	To study pre-Islamic fairs, Makkah as religious and commercial center, management of Kabah, conflict between BanuHashim and BanuUmayyah and invasion of Makkah by Abrah.	Understanding the pre-Islamic fairs, Makkah as religious and commercial center, management of Kabah, conflict between BanuHashim and BanuUmayyah and invasion of Makkah by Abrah.
Module-IV	To discuss persecution and social boycott of Muslims in Makkah, migration to Abyssinia and Madinah, Miraj, year of sorrow Basic Arabic grammar and Islamic terminology	Students will learn about the discuss persecution and social boycott of Muslims in Makkah, migration to Abyssinia and Madinah, Miraj, year of sorrow Students will get the knowledge of basic Arabic grammar and Islamic terminology.

SEM-II

ISLAM AND ITS BASIC TENETS-I

	T	T
SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
MODULE I	To teach meaning of Islam and	The students will get the knowledge
	essential elements of Faith	of meaning of Islam and essential
		elements of Faith
		ciements of raini
MODULE-II	To discuss the significance and	The students will learn the
	importance of five pillar of	significance and importance of five
	Islam.	pillar of Islam
Mandada III		1
Module III	To study the importance of piety	The students will be enable to
	in Islam and Quran's emphasis	understand the importance of piety in
	on piety	Islam and Quran's emphasis on piety
	To teach the status of women	They will also get the knowledge of
	and their rights, institution of	the status of women and their rights,
	marriage and divorce in Islam,	institution of marriage and divorce in
	laws of inheritance	Islam, laws of inheritance
Module-IV	To discuss the rights of parents,	Students will learn about the rights of
	relative, neighbors, subordinate,	parents, relative, neighbors,
	widow and orphans, destitute	subordinate, widow and orphans,
	and wayfarer in Islam.	destitute and wayfarer in Islam
	1 2	<u> </u>

SEM-III THE PROPHET MUHAMMAD'S LIFE AT MADINAH AND THE ESTABLISHMENT OF THE ISLAMIC STATE-I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
MODULE I	To study the arrival of prophet Muhammad at Madinah and his efforts to make a Muslim community in Madinah	The successful completion of this module will enable the students to understand the prophet's efforts to make a Muslim community
MODULE-II	to study prophet's strive to conclude the pact with other community and his characters as a commander in chief of an army, to study the institution of azan and change of Qiblah	the successful completion of this module will enable the students to understand the prophet's efforts to make a peaceful co-existence among the various communities and the significance of azan and change of Qiblah in Muslim society
Module III	To study the role of Jews to conspire against Muslims and breach the pact	Students will get the knowledge about the Jews efforts to break their pact with Muslims
Module-IV	To study the truce of Hudaibiyah and prophets messages to the Kings and the tribal heads for inviting towards Islam. To explain the basic Arabic grammar and Glossary of Islam	This module will enable the students to understand the methods for inviting towards the Islam. Students will get the knowledge of basic Arabic grammar and Islamic terminology.

SEM-III THE SOURCES OF ISLAMIC LAW & CULTURAL ASPECT OF ISLAM-I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
MODULE I	To study the meaning,	The students will get the knowledge
	revelation, collection,	about the Quran.
	compilation, arrangement of	
	Holy Quran and its contribution	
	to provide the guidelines about	
	the natural science	
MODULE-II	To study the Quran as preserver	The students will learn the about the
	of Arabic Language and its	Quran as a preserver of Arabic
	influence on Arabic literature.	language and its influence on Arabic
	Also discuss the origin and	literature.
	development of Tafsir and	They will understand the
	important Arab Tafsir writers	contributions of Arab scholars
		towards Tafsir of Quran.
Module III	To discuss the contribution of	Understanding the contribution of
	Indian Tafsir write in Quranic	Indian Scholars to Tafsir Writers
	Literature	
Module-IV	To discuss the importance of	The students will get an idea of

Education in Islam and Islamic	educational system of Islam and
Concept of Justice.	Islamic concept of justice.
Basic Arabic grammar and	Students will get the knowledge of
Islamic terminology	basic Arabic grammar and Islamic
	terminology.

SEM-IV THE PROPHET MUHAMAMD'SLFE AT MADINAH AND ESTABLISHMENT OF ISLAMIC STATE-II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
MODULE I	To teach the causes and	The students will get the knowledge
	strategies of conquest of	about the causes and strategies of
	Makkah, battle of Mutah and	conquest of Makkah, battle of Mutah
	Hunain.	and Hunain.
MODULE-II	To discuss about the first Islamic	The students will learn about the
	pilgrimage, year of deputation	first Islamic pilgrimage, year of
	and Tabuk expedition	deputation and Tabuk expedition
Module III	To study significance and	Understanding significance and
	importance of farewell	importance of farewell pilgrimage of
	pilgrimage of prophet	· · · · · · · · · · · · · · · · · · ·
	Muhammad (SAW)	Learners will be aware about the last
	To discuss the last days of	days of prophet Muhammad (SAW)
	Prophet Muhammad(SAW)	
Module-IV	To discuss the personality of	The students will get an idea the
	Prophet Muhammad (SAW) as a	personality of Prophet Muhammad
	reformer, law giver, founder of	` '
	Islamic state and his	
	achievements.	achievements.
	Basic Arabic grammar and	
	Islamic terminology	basic Arabic grammar and Islamic
		terminology.

SEM-IV THE SOURCES OF ISLAMIC LAW & CULTURAL ASPECT OF ISLAM-II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
MODULE I	To study the meaning,	The students will get the knowledge
	collection, compilation,	about the Hadith, methods to check
	Codification and classification of	genuineness of hadith, and types of
	Hadith.	hadith.
MODULE-II	To discuss about the book al-	The students will learn the about the
	Muwattah and six authentic	al-Muwattah and six authentic books
	books of hadith.	of Hadith.

Module III	To teach origin and development	Understanding the origin and
	of Islamic Law and its sources.	development of Islamic Law and its
	To explain Importance and	sources.
	features of Four school of	Students will get knowledge of
	Islamic jurisprudence.	Importance and features of Four
		school of Islamic jurisprudence.
Module-IV	To discuss the importance of	The students will get an idea of
	Unity, Equality and Fraternity in	Unity, Equality and Fraternity in
	Islam. Cultural aspect of Islam	Islam. Cultural aspect of Islam
	To explain Basic Arabic	Students will get the knowledge of
	grammar and Islamic	basic Arabic grammar and Islamic
	terminology	terminology.

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF URDU

PROGRAM	SPECIFIC OUTCOME
UG Programme T.Y.B.A. IN URDU	The B.A. graduates can pursue B.Ed. course and opt teaching career in the schools. Also they can do Post Graduate Studies in their respective subjects studied in 'Under Graduate' level. After their Post Graduation they may do M.Phil or Ph.D. and take teaching as their career in higher education institutions like Degree colleges and Universities. Other Career options: - Journalism, Tourism, Judiciary (Law), Linguistics, etc. They are eligible to appear for any competitive exams conducted by Union Public Service Commission (UPSC) and other States Public Service Commissions, Indian Railway Board, etc for entering into the government services. They also pursue their studies in doing MBA, Post Graduate Diploma in Computer (PGDC), Certificate Courses of any discipline. Students interested in Urdu Language subject can do the job in the following areas: • Professional Writing • Research • Editing • Journalism • Media • School Teachers etc.

PROGRAMME SPECIFIC OUTCOME

(Academic Year 2018 -2019)

NAME OF THE PROGRAMME: F.Y.B.A. & S.Y.B.A IN THE SUBJECT URDU

PROGRAM	SPECIFIC OUTCOME
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UG
Programme
F.Y.B.A.
&
S.Y.B.A
IN URDU

The students of first year and second year B.A. Urdu will be able gain the knowledge of :

- Idioms of Language and art of Essay writing including the life and works of Prose & Poetry writers. They also know about the different Genres of Urdu Language and Literature.
- The Language, Grammar and very importantly *Mabadiyat-e-Arooz* and *Usool-e-Taqtee*.
- The history and evolution of letter writing in Urdu, know about the unique styles of very famous Urdu Poet MirzaAsadullah Kahn Ghalib and also about the legendary figure, Sir Syed Ahmad Khan, the founder of AMU, Aligarh.
- The very famous literary genres i.e. Urdu Ghazal, alongwith its History and Development.
- The Urdu Travelogue, its beginning and gradual development and about the famous writer MujtabaHussain.
- The History and Gradual development of Urdu Nazm, selected Nazms of AkhtarulIman and KhalilurRehmanAzmi.

COURSE OUTCOMES:

BAURDU

F.Y.B.A. & S.Y.B.A IN URDU

Course Outcomes		
Courses	Outcomes	
F.Y.B.A. IN URDU Semester- II Semester – II & S.Y.B.A IN URDU Semester- III Semester – IV	The Students by studying Urdu at first year of undergraduate level will gain knowledge of the major literary genres of Urdu literature. They will develop an ability to read texts in order to gain a richer understanding of the subject and to become more aware of themselves about Urdu. Language and Literature	

T.Y.B.A. IN URDU

Course Outcomes		
Courses	Outcomes	
T.Y.B.A. IN URDU Paper IV Paper V Paper VI Paper VII Paper VIII Paper IX	Students, at the end of the course, would be able to unlock the communicator in them by using Urdu language appropriately and with confidence for further studies or in professional spheres where this language is the indispensable tool of communication. Students can work anywhere in India, as they know Urdu which is the second official language of India. So they can easilybeemployed in Indian and other Countriesalso. As they are Practicing Translation fromone language to another, they can become Translators in many Central Govt Offices. Theyarelearning Poetry and Grammar -so they can become creative writers or poetsare authors. ByReadingandobserving Drama's and one actplaystheycan become good actors. By having good communicationskills and command over language one can becomes good speaker. Having good command over particular language one can present himself in better way. By studying Urdu at undergraduate level, the students will gain knowledge of the major traditions of literatures written in the national languages Urdu. They will develop an ability to read texts in relation to their historical and cultural contexts, in order to gain a richer understanding of both text and context, and to become more aware of themselves as situated historically and culturally.	

PROGRAMME: BACHELOR OF COMMERCE&MANAGEMANT (B.Com)

PROGRAMME OUTCOME

SR.NO	PROGRAMME OUTCOME
1.	After completing three years for Bachelor in Commerce (B.COM) program,
	students will gain knowledge and understanding of the fundamental concepts of
	Commerce, Accountancy and Finance.
2.	The commerce curriculum offers a number of specialization and practical exposure
	which will equip the students to face modern day challenges and prepare them for
	entrepreneurship and industrial needs.
3	Students can pursue research and higher education in M.Com. MBA. CA. M.Phil.
	Ph.D. as well as competitive exams.
4	The students are equipped with communication and professional soft skills to help
	them relate and adjust in business atmosphere.
5	Student insight about business ethics and values will sensitize them towards social
	responsibility and commitment.

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF ACCOUNTANCY

SR.NO	PROGRAMME SPECIFIC OUTCOME	
1	Learners will be able to apply different concepts in starting and managing the	
-	business and they will also realize their social responsibilities.	
II	Learners will be capable in preparing financial statements of business using	
	accounting principles, concepts, conventions and provisions.	
III		
""	Learners will be able to implement traditional and modern strategies and	
	practices of costing, banking, economics, marketing, management, auditing and	
	taxation.	
IV	Learners will be able to use mathematical and statistical tools in academics,	
	business and research.	
V	Learners will be able to go for higher education and advance research in the field	
	of commerce and finance or he/she can easily go for the future oriented	
	professional exams like CA, CS, ICWA and other competitive examination.	
VI	The students will acquire the knowledge, skill in different areas of	
	communication, decision making, innovations and problem solving in day to day	
	business activities.	
VII	Learners will be able to recognize features and roles of businessmen,	
	entrepreneur, managers, consultant, which will help learners to possess	
	knowledge and other soft skills and to react aptly when confronted with critical	
	decision making.	
VIII	Learners will aware of cultural differences and able to account for these in	
	developing solutions to commerce related problems.	
IX	Learners will gain systematic and subject skills within various disciplines of	
1/		
	Finance, Auditing, Taxation, Accounting, Management, Communication and	
	computer.	

COURSE OUTCOME:

B.Com IN ACCOUNTANCY

SEM: I

ACCOUNTANCY AND FINANCIAL MANAGEMENT

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
I	To teach provision of Accounting	The Students will learn the concept and
	Standard- I, II and IX and its	provision of Accounting Standard I –
	application.	Disclosure of Accounting policies, AS-
		2- Valuation of Inventory and AS-9-
		Revenue Recognition and its
		application in accounting procedure.
II	To teach the form and layout of	The students will learn the Format,
	Final Account of Manufacturing	Entries and accounting procedures of
	Concern.	preparation of Final Account of Sole
		Proprietary Concern.
III	To teach the concept and procedure	The students will understand the
	of preparation of Departmental	concept and accounting procedure of
	Final Account.	Departmental Final Account and its
		different adjustments.
IV	To teach the concepts, methods and	The students will understand the
	accounting procedures of Hire	concept of Hire purchase System,
	Purchase System.	different methods and accounting
		procedures applied in Hire Purchase
		System.

SEM-II

ACCOUNTANCY AND FINANCIAL MANAGEMENT

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT	020201112	00100112
`		
WISE)		
I	To teach the concepts and	The Students will learn the concept
	accounting procedures of Accounting	of Accounting from Incomplete
	from Incomplete Records (conversion	Records and they will also
	method of Single Entry System).	understand the methods of
		conversion of single entry system.
II	To teach the concepts, types and	The students will understand in detail
	accounting procedures of	the concepts of Consignment
	Consignment Account.	Account and the stages involved in
	-	accounting procedure of
		Consignment Account.
III	To teach the concepts, types and	The students will be able to
	accounting procedures of Branch	understand the concept of Branch
	Account.	Account and different types of
		Branch and accounting procedure to

		maintain the record of Branch
		Account.
IV	To teach the concepts, different terms	The students will understand the
	involved and accounting procedures	concept and of fire insurance claim
	to calculate the Insurance claim in the	and they will also learn how the
	case of loss due to fire.	Insurance claim can be calculated by
		following accounting procedure in
		the case of loss due to fire.

SEM-III

ACCOUNTANCY AND FINANCIAL MANAGEMENT

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
I	To teach the formats and various	The students will understand the
	adjustments applicable in partnership	basic format and different
	final account.	adjustments applicable in
		partnership final account
		including adjustment of
		Admission, Retirement and
		Death of a partner.
II	To teach the concepts of piecemeal	The students will understand the
	distribution of cash and its accounting	basic concepts and accounting
	procedure.	procedure of piecemeal
		distribution of cash at the time
		of dissolution of partnership of
		firm.
III	To teach the concepts, objects and	The students will learn the
	accounting procedure of Amalgamation	concepts, objects and
	of Partnership Firm.	accounting procedures to be
		followed in the case of
		Amalgamation of Partnership
***		Firm.
IV	To teach the concepts and the accounting	The students will learn the
	procedure to be followed in conversion of	•
	partnership firm in to a Limited	procedure to be followed in the
	Company.	case of conversion of
		partnership firm in to a Limited
		Company.

SEM-III

INTRODUCTION TO MANAGEMENT ACCOUNTING

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To teach the concept of management account and financial statements as well as different tools to analyze the financial statement of the companies.	The students will be able to understand the concept of management account and financial statement. They will also understand various tools available to analyze the financial statement of different companies.
02	To teach concept, different types of ratio and its interpretation.	The students will be able to understand the concept of ratio analysis and they will also understand different types of ratios available for analyse and interpretation of different companies financial statement of different companies.
03	To teach concept, types and accounting procedure of working capital.	The students will learn different types of working capital requirement for the smooth functioning. They will also learn the accounting procedure to calculate the working capital requirement for different situation.
04	To teach concept, types and techniques of capital budgeting.	The students will be able to understand the concept, different types and techniques available for capital budgeting before making any capital investment.

SEM-IV AUDITING

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To teach the concept of auditing,	The students will be able to
	errors and frauds, principle of audit	understand the concept of auditing
	and different types of audit.	which will help them to
		understand different types of
		errors and frauds. They will also
		learn different types of audit.
02	To teach audit planning, audit	The students will understand audit
	program and audit working paper.	planning, audit program and audit
		working paper in detail which will
		help them the role of audit plan
		and program in auditing
		procedure.

03	To teach concept, importance and	The students will understand in
	role of test check, sampling	detail the concept, role and
	technique, internal control and	importance of test check, sampling
	internal audit.	techniques, internal control and
		internal audit.
04	To teach concept and procedure of	The students will learn in detail
	vouching and verification.	the concept and procedure of
		vouching of income and
		expenditure and verification of
		assets and liabilities.

SEM-IV

ACCOUNTANCY AND FINANCIAL MANAGEMENT

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
I	To teach meaning, types and	The students will learn different
	formation of company and	types of companies, procedures &
	accounting for issue of shares and	formation of company, and will
	debentures.	also understand the accounting
		procedure for issue of shares and
		debentures.
II	To teach the concept, method and	The students will be able to
	accounting procedure of redemption	understand the concept, different
	of preference shares.	methods and entire accounting
		procedure of redemption of
		preference shares.
III	To teach concept, terms, methods	The students will understand
	and accounting procedure for	concept, terms, different methods
	redemption of debentures.	and whole accounting procedure
		for redemption of debentures.
IV	To teach concept of Profit Prior to	The students will understand the
	Incorporation (PPI), allocation of	1
	experts and its treatment and	calculation of Profit Prior to
	accounting procedure to calculate	Incorporation (PPI) and will also
	the profit prior to incorporation.	learn the basis of allocation of
		expenditures.

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
I	To teach the concepts and	The Students will understand the
	importance of Cost Accounting	concept of cost Accounting system
	system.	and will be able to differentiate
		between cost accounting and
		financial accounting.
II	To teach the concept of Stock	The students will learn Inventory
	Valuation, Purchasing function,	valuation techniques, Material
	stock level etc.	control techniques Stock procedure
		etc.
III	To teach the students Labour	The students will be able to
	Costing, Labor Turnover Labour Idle	understand the concept and causes
	Time and Remuneration methods of	of Labour Turnover and idle time.
	labour.	They will also be able to understand the remuneration
		method.
IV	To teach the students the concept,	The students will understand the
1 4	Classification, Benefits and	concept and benefits of overheads
	Allocation of Overheads.	for the purpose of correct cost
	Throughou of Syemenas.	calculation.
V	To teach the students concepts of	The students will be able to
	Cost classification, treatment of non-	understand the basis of cost
	cost item, Determination of total cost	classification and treatment of non-
	and preparation of cost sheet.	cost item. They will also
		understand how the cost sheet is
		prepared to find the total cost of
		product.
VI	To teach the concepts, causes and	The students will understand the
	procedure of Reconciliation of Cost	concept and causes of
	and Financial records.	Reconciliation between Cost and
		Financial records and will also
		understand the accounting
		procedures of Reconciliation.

SEM-V

Financial Accounting

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
I	To teach the format and accounting	The students will understand the
	procedure of final account of the	provisions of Companies Act 2013
	companies as per the revised	regarding the accounting
	schedule VI	procedure to be followed while
		preparing the final account of the

		companies.	
II	To teach the concepts, legal aspect and the accounting procedure of internal reconstruction.	The students will be able to understand the concept, legal aspect and the accounting procedure to be followed in the	
III	To teach the concepts, conditions and accounting procedure to be followed in Buy-Back of equity shares.	case of Internal Reconstruction. The students will be able to understand the concept and conditions of Buy-Back to be fulfilled as per the Companies Act	
		2013, further they will be able to follow the accounting procedure in the case of Buy-Back.	
IV	To teach the basic concepts of investments, its type and accounting procedure to record the transactions related to investment accounts.	The students will be able to understand the basic concept of investments, its type and accounting procedure to be followed to record the transactions related to investment accounting.	
V	To make the students aware with Ethical Behavior and its importance in financial reporting.	The students will be able to understand the basic concept of Ethical Behavior and its importance in the accounting system as well as at the time of financial reporting.	

SEM-VI

Financial Accounting

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
I	To teach the concepts, methods and accounting procedure of Amalgamation, Absorption and External Reconstruction with reference to A.S- 14	The students will be able to understand the concept, methods of Amalgamation, Absorption and External Reconstruction and they will also be able to understand the accounting procedure to be followed in amalgamation as per A.S-14
II	To teach the concepts, need of currency conversion and accounting procedure to record the Foreign Currency Transaction as per AS-11	The students will be able to understand the concept, methods, need of currency conversion and accounting procedure to be followed to record the foreign currency transaction as per AS-11

III	To teach the concepts, provision and the accounting procedure of Liquidation of Companies.	The students will be able to understand the concept, provision and the accounting procedure to be followed in the case of Liquidation of companies
IV	To teach the concepts of underwriting and the procedure to calculate the liability of underwriters in the case of Underwriting of Shares and Debentures.	The students will be able to understand the concept of underwriting and the accounting procedure to be followed to calculate the liabilities of underwriters in the case of underwriting of shares and debentures.
V	To teach the concepts of Limited Liability Partnership (LLP) and its formation and the accounting procedure to convert the partnership in to Limited Liability Partnership (LLP).	The students will be able to understand the concept of Limited Liability Partnership (LLP) its formation and the accounting procedure to be followed at the time of conversion of the partnership in to Limited Liability Partnership (LLP).

SEM VI

COST ACCOUNTING

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
I	To teach the concepts of Cost Control,	The Students will understand the
	methods and importance of Cost	concept of Cost Control as well
	Control Accounts.	as they will be able to follow the
		accounting procedures of Cost
		Control Account.
II	To teach the concepts, methods of	The students will be able to
	Contract Costing and its accounting	understand the concept, methods
	procedures.	and the accounting procedure of
		Contract Costing.
III	To teach the concepts, methods of	The students will be able to
	Process Costing and the Treatment of	understand the concept, methods
	Process loss and determine the process	and the accounting procedure of
	cost including By product and Joint	Process Costing including
	Product.	treatment of By product and Joint
		Product.
IV	To teach the concepts of Marginal	The students will understand the
	Costing and application of Marginal	concepts as well as the
	costing in Decision making.	methodology to calculate the
		marginal cost of the product
		under varied situation.

V	To teach the students concepts of	The students will be able to
	Standard Costing and variance	understand the concepts of
	analysis.	Standard Costing and will be
		able to calculate the Actual Cost,
		Standard Cost and Variance
		analysis under different
		situations.
VI	To teach the Emerging concepts of	The students will be aware about
	Cost Account Like Target Costing,	the Emerging Concepts of Cost
	Life cycle costing etc.	Accounting and its importance as
		well as utilization in Cost A/c.

PROGRAMME OUTCOME:

DEAPARMENT OF ECONOMICS

SR.NO	PROGRAMME OUTCOME
01	Economic graduates understand the knowledge and application of Micro economics
	and Macroeconomics concepts for the formulation of policies and planning, they are
	also made aware about basic economic tools used by the academicians,
	governments and policy makers.
02	Economics students in general will be able to understand and analyse the past
	present economic conditions of the country which enable them to forecast the future
	course of changes and development through the knowledge of policies and
	programmes of the government and other economic agents.
03	The department teach the various aspects of International Trade theories and
	practices and the issues of the real world.
04	Graduates are made aware about the system, functioning and reforms of Indian
	Financial System.
05	The department teach the Classical, Neo-classical and Modern Growth and
	Development theories to the students to make them aware about the real world
	situation of development.
06	Economics students in general will be able to understand the concepts, causes,
	challenges of the current economic scenario and are equipped with the techniques to
	find the solution with the available resources.

COURSE OUTCOMES:

BUSINESS ECONOMICS

SEM-I

BUSINESS ECONOMICS-1

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To introduce the scope, importance	Students understand the concepts
	and basic tools used in business	and application of economic
	economics and basics of market	knowledge in business decision
	demand and market supply and	making and market equilibrium.
	equilibrium price.	
02	To introduce the concepts of demand	Students understand the factors
	functions, its determinants, demand	determining demand,
	forecasting and elasticity of demand.	significance and methods of
		measurement of elasticity of
		demand and demand forecasting.
03	To teach students the concept of	Students learn various concepts
	supply and production decision,	of production function, law of
	economies and diseconomies of scale.	variable proportion, law of
		returns to scale and factor
		influencing producer's
		equilibrium.
04	To introduce the concept of cost and	Students understand the different
	derivation of cost curve in the short-	types of costs and calculation of
	run and long-run. To make them	costs and also know the break-
	aware about cost reduction through	even point determination uses
	experience and break even analysis.	and limitations.

SEM-II

BUSINESS ECONOMICS-II

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To give knowledge about features and equilibrium of perfect completion and monopoly market.	Students understand the various types of markets and their equilibrium in the short-run and long-run under different cost condtions.
02	To give knowledge about features and equilibrium of monopolistic completion and oligopoly market. To introduce the concept of product differentiation, selling cost and price leadership.	Students understand the various types of markets and their equilibrium and able to distinguish between different types of markets prevailing in real world and the reason for

		price and product variations.
03	To teach students the concept of price discrimination, types and conditions and various pricing practices.	Students learn how the firm decide the price for the product and also able to know why there is difference between public and private sector pricing practices.
04	To introduce the concept and significance of capital budgeting and various investment appraisal, technique, concept and calculation.	Students learn the concept of capital budgeting and also able to apply various techniques of capital budgeting for the selection of most appropriate and profitable projects.

SEM-III

BUSINESS ECONOMICS-III

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To introduce the concept of	Students understand the
	macroeconomics, national income,	various concepts of
	circular flow of income, trade cycle and	macroeconomics like
	Say's law of market.	circular flow of income,
		trade cycle in the real world
		in income-output
		determination and get
		background knowledge of
		income determination in
		classical theory.
02	To teach students Keynesian concept of	Students learn the issues
	determination of income and output,	and factors determining
	consumption function, multiplier,	equilibrium in an economy
	investment function and liquidity	and marginal propensity to
	preference theory of interest.	consume and marginal
		efficiency in capital
		determine investment and
		various motives for holding
		cash.
03	To teach students the concept of	Students learn about the
	inflation, unemployment (Phillips curve),	causes of inflation and
	stagflation and supply side economics.	unemployment and also the
		importance of government
		during stagflation.

04	To introduce the concept and	Students learn the concept
	measurement of supply of money and	of supply and demand for
	theories of demand for money, types	money and the various
	causes and measures of inflation.	measures for money supply.
		Students are able to
		understand the nature,
		concept, causes and
		measures to control
		inflation.

SEM-IV

BUSINESS ECONOMICS-IV

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To teach the students role of government	Students understand the role
	in an economy, public finance, fiscal	of government and the
	functions and role of markets.	concept of sound and
		functional finance and the
		component and theories of
		public finance.
02	To teach students the various sources of	Students learn the main
	public revenue, shifting of tax burden,	sources of public finance,
	economic effects of taxation.	objective Canons and
		effects of taxation.
03	To teach students the classification,	Students learn the types,
	Canons, economic effects of public	causes of increase the
	expenditure and the concept and burden	effects of public expenditure
	of public debt.	and public debt on the
		economy.
04	To teach students to fiscal policy, budget,	Students learn the
	intra-governmental fiscal relations.	government fiscal policy, its
		types, objectives and inter-
		governmental fiscal relation
		in the country and types of
		budget.

SEM-V BUSINESS ECONOMICS-V

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To teach students role of social	Students understand the
	infrastructure, sustainable development	significance of social
	goals and foreign investment policy	infrastructure and
	measures in India in post reform period.	government policy to
		achieve sustainable
		development goals in India
		and also the issues and

		benefits of FDI in India.
02	To teach students the agricultural development since 1991 with special reference to agriculture policy, finance and marketing developments.	Students learn about the agricultural sector during post reform period, pricing, finance and the marketing, issues and the government policies.
03	To teach students about the industry and service sector during the post reform period.	Students learn the importance of services sector, MSME and the growth of the sector during post reform period.
04	To teach the recent trends, issues and challenges in the banking and insurance sector and the structure and reforms introduce the money and capital market.	Students understand the structure, issues and challenges and reforms, introduce in Indian financial market.

SEM-VI

BUSINESS ECONOMICS-VI

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the international trade theory and the terms of trade and the gains from international trade.	Students learn about various international trade theories and get the knowledge about terms of trade and the gains from trade.
02	To teach students the commercial trade policy, tariff and non-tariff barriers and the types and objectives of economic integration.	Students learn about the types and importance of commercial trade policies and the objectives and issues of tariff and nontariff barriers and the importance of economic integration.
03	To teach students about the structure, types, causes and measures to correct disequilibrium in BOP and the agreements of WTO.	Students learn the concept, structure, causes of disequilibrium and corrective measures for BOP and understand the functioning, principles and agreements of WTO.

04	To teach students about functioning and	Students learns about
	dealers of foreign exchange markets,	foreign exchange market,
	determination of exchange rate, role of	foreign exchange rate in
	central bank in foreign exchange rate	the role of central bank in
	management.	foreign exchange rate
		management.

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF ENGLISH

Sr.No	Programme Specific Outcome
PS0 1	To understand the local, state, national and international business standards.
PSO2	To develop an overall corporate culture amongst students.
PSO3	To demonstrate and visualise them the interview techniques, public relations and also the official communication.
PSO4-	To establish the link between their professional and personal life by providing communication skills pertaining to business environment.

COURSE OUTCOME:

BUSINESS COMMUNICATION PAPER I/II

SEM: 1 & 2 BUSINESS COMMUNICATION PAPER I/II

Syllabus (Unit Wise)	Objectives	Outcome
Module I	To understand communication	The students are able to
Communication	definition, concept, need and	categorize communication and
Theory	importance.	use it practically in daily life if
	To understand communication types	they are involved in business.
	and process along with barriers.	
Module II	To understand the line of	The learner's will purposefully
Channels of	communication deployed at work	select appropriate channel to
Communication	place and listening skill.	communicate at workplace.
	To imbibe values and ethics at work	The students exhibit good
	place.	behavior and refined manners in
		business or work place.
Module III	To improve business	The learners are able to aptly use
Business	correspondence.	different forms of written
Correspondence		communication.

Mass Communication paper I/II

SEM: 3 & 4

Mass Communication paper I/II

Syllabus (Unit	Objectives	Outcome
Wise)		
Module I	To understand communication definition, concept, need and importance. To introduce the learner's to major aspects of communication.	The students are able to categorize communication and use it practically in daily life if they are involved in Media related practices.
Module II	To develop among the students a historical perspective of the development of various mass media.	The history of media is learnt by the students. The chronological development of media is core part of their understanding exhibits through their senses.
Module III	To develop a critical understanding of mass media with regard to their role, potentialities and impact in modern India.	Students exhibit their understanding of the roles of media, their importance and effects in present times.
Module IV	To introduce some practical skills necessary to take up careers in Media industry.	Students are attracted towards the career prospectus of mass media by understanding its relevance in present times.

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF MATHEMATICS

SR.NO	PROGRAMME SPECIFIC OUTCOME
1	
1.	The main objective of this course is to introduce mathematics and statistics to
	undergraduate students of commerce, so that they can use them in the field of
	commerce and industry to solve the real life problems.

COURSE OUTCOME

SEM-I &II

MATHEMATICAL AND STATISTICAL TECHNIQUES

Syllabus (unit	Objectives	Outcome
wise)		
Unit – i	To familiarize the concept of shares,	Enable learners to solve real
Shares and mutual	mutual funds, bonus shares, mutual	life examples on shares and
funds	funds and sip in real life	mutual funds

Unit – ii Permutation &	To provide practical exposures of lpp problems to maximizes the profit or	Enable learners to solves examples of lpp in real life
combination Linear programming problems	minimize the loss To provide guidelines in arrnaging and selection of objects/perons in real time	Enable learners to find the possibilities and selection of objects in day to day life
Unit – iii Measures of central tendencies Measures of dispersion	To familiarizes the concept of statistics To provide practical exposure on calculation of measures of average, median, mode and standard deviation	Enable learners to solve basic of central tendency in real life situation Enable learners to solve examples on statistics
Unit – iv Probability theory Random variable	To introduce the students about the concept of probability and random variables	Enable learners to predict and able to find the probability of real life situations
Unit – v Decision theory	To focus on decision making criteria and investigate the decision through experimentation	Enable learner to take helpful decision based on requirement through experimentation
Unit – i Functions, derinvatives and its applications	To solve problems involving rates of change of variables subject to a functional relationship	Enable learners to find changes of functions with respect to time
Unit – ii Interest and annuity	To provide an environment to solves examples on si,ci and annuity	Enables learners to know the calculation and concept of interest and annuity in banks and industries
Unit – iii Bivariate linear correlation and regression	To provide the concept of relation between data and prediction of future values from past values	Enable larners to find relationship between data in real life and industry
Unit – iv Time series & index numbers	To develop mathematical models that provide likely descriptions for sample data	Enable learners to predict the future value based on past experiences in industry and day to day life
Unit – v Elementary probability distribution	Providing students with a formal treatment of probability theory. Fostering understanding through realworld statistical applications.	Develop problem-solving techniques needed to accurately calculate probabilities. Apply problem-solving techniques to solving realworld events.

PROGRAMME: BACHELOR OF SCIENCE (B.SC)

PROGRAMME OUTCOMES:

SR.NO	PROGRAMME OUTCOME
1)	Learner would get an opportunity to explore the field of science through pursuing
	science.
2)	Science department offers realistic approach to the learners where theory and
	practical go hand in hand.
3)	Through the establishments of department of science, a learner can contribute
	her/his part in making advancement in the field of technologies for the betterment
	of life of all aspects.
4)	It also gives an opportunity for them to study and correlate the day to day events
	happening in their own life and surroundings.
5)	The field of science also encourages learners to aim high, develop inquiring minds
	and curiosity.

COURSE OUTCOMES:

B.SC IN BOTANY

SEM-I

PLANT DIVERSITY 1

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I ALGAE 1 Structure, life cycle and systematic position of Nostoc and Spirogyra. 2 Economic importance of Algae UNIT II FUNGI 1 Structure, life cycle and systematic position of Rhizopusand Aspergillus 2 Economic importance of Fungi. 3 Modes of nutrition in Fungi	 Understand the identifying characters of the lower groups of plants. Have an idea on diverse groups of plants. to understand economical application of theoretical knowledge of algal biotic entity in various fields The course aims to provide an understanding the diversity of fungal world and its significance. Understand the various plant diseases and their impact on agriculture To understand economical application of theoretical 	1] Students learn to identify various divisions of algae and compare their characteristics through microscopic observation. 2] Student gain awareness about economic importance of algae in various field like medicine, agriculture, research and industries which helps them to also understand the practical application of the algal studies. 3] Students get familiarised with identification of various divisions of algae through microscopic observation. 4] Student gain awareness about its role in controlling various plant diseases and get
(Saprophytism and Parasitism).	knowledge of fungal biotic	acquainted about economic importance of algae in various

UNIT III BRYOPHYTA

- 1 General characters of Hepaticae 2 Structure, life cycle and systematic position of Riccia.
- entity in various fields
- To understand the importance of biological entities in process of Decomposition and mutual associations between various organism.
- To understand various adaptations and modification in plants in course of journey of aquatic to terrestrial evolution.
- field and its practical application in fields like medicine, agriculture, research and industries.
- 5] With this knowledge students understand adaptations of various organisms and relationships between them along with the environment for satisfying its basic nutritional requirements.
- 6] Students learn identification of various divisions of bryophyte and compare their characteristics through microscopic observation.

SEM-I

FORM AND FUNCTION 1

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
WISE) UNIT I CELL BIOLOGY 1 General structure of plant cell: cell wall Plasma membrane (bilayer lipid structure, fluid mosaic model) 2 Ultra structure and functions of the following cell organelles: Endoplasmic reticulum and Chloroplast. UNIT II ECOLOGY	 To understand the basic principles related to various physiological functions in plant life Aims to make student understand role and structure of various cell organelles and its specificity to a particular function. To understand interdependence of various biological 	1] Students get familiarised with basic skills and techniques of plant physiology by studying some cell organelles under microscope. 2] Student understands mechanism of transport within the cell and get acquainted with applied aspects of plant physiology. 3] Student understands importance of various organisms in maintaining balance in an ecosystem by studying food chain charts and energy flow models. 4] Help students to identify the nature and interactions of populations in the ecosystem. Various adaptations are studied through practical identification
1 Energy pyramids	various biological entities and to	of various adaptive characters of
energy flow in an	understand energy	plants of varied diversified habitat. 5] Student understand pattern of
ecosystem. 2 Types of	transfer mechanism in an ecosystem.	inheritance by performing and solving
ecosystems: aquatic and terrestrial.	It aims to study	various crosses and through micrograph of various karyotype.

UNIT III GENETICS 1Phenotype/Genotype, Mendelian Genetics- monohybrid, dihybrid; test cross; back cross ratios. 2Epistatic and non epistatic interactions; multiple alleles.	organism and characteristics of different ecosystem. To study genetic laws and understand basic pattern of inheritance or heredity.	Students get familiarized with nuclear and extra nuclear inheritance.
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SEM-II

PLANT DIVERSITY 1

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
UNIT I	 The course aims 	1] Students learn identification of
PTERIDOPHYTES	to develop an	various divisions of pteridophyte and
1 Structure life cycle,	understanding	compare their characteristics through
systematic position and	about the	macro and microscopic observation.
alternation of	diversity in	2] Student understands types of stele
generations in	habits, habitats	through identification practical by
Nephrolepis	and to understand	observing various types of stele under
2Stelar evolution	structure of	microscope.
UNIT II GYMNOSPERMS	pteridophyte,	4] Student gain awareness about economic importance of
2 Structure life cycle	gymnosperms and	Gymnosperms in various field like
systematic position and	angiosperms.	medicine, agriculture, research and
alternation of	 To understand 	industries which helps them to also
generations in Cycas	phylogenetic	understand the practical application of
2 Economic importance	relationship of	the studies.
Gymnosperms.	Total on only	5] Students develop inductive and

UNIT III ANGIOSPERMS

1. Leaf: simple leaf, types of compound leaves, Incisions of leaf, venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf base, leaf shapes.

Modifications of leaf: spine, tendril, hooks, phyllode, pitcher, Drosera or insectivorous plants.

2 Inflorescence: Racemose: simple raceme, spike, catkin,

spadix, panicle.

Cymose: monochasial,

dichasial, polychasial.

capitulum, verticellaster,

Compound: corymb,

umbel, cyathium,

hypanthodium.

3 Study of following families: Malvaceae, Amaryllidaceae.

- various types of modifications in vascular bundle
- to understand economical application of theoretical knowledge of Gymnosperms in various fields
- Understand and study various shapes and modification in leaf and inflorescence of plants. To study distinguishing characters of families for taxonomical identification.

deductive reasoning ability through plant identification practical's by studying various morphological characters and modification observed in plants. Student Understands the life cycle pattern of most evolved group of plants.

SEM-II

FORM AND FUNCTION 1

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I ANATOMY 1 Simple tissues, complex tissues 2 Primary structure of dicot and monocot root, stem and leaf. 3 Epidermal tissue system: types of hair, monocot and dicot stomata. UNIT II PHYSIOLOGY 1 Photosynthesis: Light reactions, photolysis of water,	 To study different types of tissue their structure, position and function To understand anatomical structure of dicot and monocot plants and study various cell outgrowth observed in plants and make student aware about its importance. To understand and 	1] Helps Students to Identifies role of anatomy and familiarise students with various types of tissues by microscopic practical's by preparing temporary sections of various parts of plants. 2] Through staining practical students can study to identify various types of vascular bundles and cells microscopically. 3] Student also understands role and importance of various epidermal outgrowths like hair, stomata which are observed and studied by them under microscope. 4] Student understands role of cell,

photophosphorylation (cyclic and non cyclic), carbon fixation phase (C3, C4 and CAM pathways).

UNIT III MEDICINAL BOTANY

- 1 Concept of primary and secondary metabolites, difference between primary and secondary metabolites.
- 2 Grandma's pouch:
 Following plants
 have to be studies
 with respect to
 botanical source, part
 of the plant used,
 active constituents
 present and medicinal
 uses: Oscimum
 sanctum,
 Adathodavasica,
 Zinziberofficinale,
 Curcuma longa,
 Santalum album,
 Aloe vera.

- study process of photosynthesis in plants and aware student about basic skills of plant physiology.
- To study various primary and secondary metabolite.
- To study medicinal importance and chemical compositions some medicinal plants.
- cell organelle and its relations with vital physiological process of photosynthesis by studying various chemical cycle and anatomical studies of C3 and C4 plants.
 5] Students understand role and importance of various secondary metabolites in plants even if their presence is in smaller quantities. Students get familiarised with its industrial and economical demand and application.
- 6] Student understand to identify medicinally important parts of these plants through identification practical's and also study presence of various secondary metabolites through minor experiments and test.

PROGRAMME SPECIFIC OUTCOME

DEPARTMENT OF CHEMISTRY

SR.NO	PROGRAMME SPECIFIC OUTCOME
01	The students are capable of understanding scientific reasoning and analytical
	problem solving with molecular perspective.
02	The students understand the interdisciplinary nature of chemistry and integrate
	knowledge of other disciplines to a wide variety of chemical problems.
03	The students learned the laboratory skills needed to design, safely conduct and
	interpret chemical research.
04	The students understand the importance of the periodic table of the elements, how
	it comes to be, and its role in organizing chemical information.
05	The students developed the ability to effectively communicate scientific
	information and research results in written and oral formats.
06	The students acquire a foundation of chemistry of sufficient breadth and depth
	which enable them to understand and critically interpret the primary chemical
	literature.
07	The students learned professionalism, including the ability to work in team and
	apply basic ethical principles.
08	Students are capable of getting outcome of the reaction. They understand about
	synthesis of any compound. They are capable of applying these knowledge in
	industrial work.

COURSE OUTCOMES:

B.SC IN CHEMISTRY

SEM-I CHEMISTRY-I

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical chemistry	To study information the	Students will know the First
Thermodynamics.	First Law of	Law of Thermodynamics and
Chemical calculations.	Thermodynamics and to	"spontaneous" processes.
	describe "spontaneous"	Students understand the
	processes.To describe the	difference between
	difference between	"spontaneous" and
	"spontaneous" and	"nonspontaneous"
	"nonspontaneous"	processes.Students
	processes.To describe	understand the concept of
	concept of "entropy".To	"entropy".Students know the
	provide knowledge about	different terms involved in
	different terms involved in	chemical calculations like
	chemical calculations like	Normality, Molality,
	Normality, Molality,	Morality, Formality, Mole
	Morality, Formality, Mole	fraction, ppm, ppb etc.
	fraction, ppm, ppb etc.	
UNIT II: Inorganic chemistry	To study about atomic	Students learned about
	structure.	structure of atom. They know
	To learn classification and	about element and its

	periodicity of periodic table.	importance.
UNIT III: Organic chemistry	It aims to study nomenclature	Students are able to recognize
IUPAC nomenclature of	of compounds.	name, structure and
different organic compound.	To understand structure and	hybridization of compound.
Bonding and structure of	bonding of molecules.	
organic compound.		
Electronic effect and study of		
carbocation, carbanion and		
carbon free radicle.		

SEM-I CHEMISTRY-II

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical chemistry	To provide information the	Students get information of
Chemical kinetics.	first order and second order	the gaseous laws like Boyle
Liquid state.	reaction including rate	law, Charles law, Avogadro's
	constants, half life time and	law, Ideal gas law etc.
	units.	Students will study the
	To study about pseudo order	difference between Ideal gas
	reaction including rate	equation and Vanderwaal
	constant, half life time and	corrected gas equation.
	units.To study the different	Students study the different
	types of liquid crystal.	types of liquid crystal.
UNIT II: Inorganic chemistry	Comparative study of main	Students are familiar with
	group elements and study of	main group elements which
	effect oxides of carbon,	help them to work in
	nitrogen and sulphur.	industry.
UNIT III: Organic chemistry	To understand concept of	Students are able to build
Stereochemistry.	chirality, and to recognize	different projection forms.
Different forms, optical	conformational and	They are able to assign
activity and its	configurational isomer.	conformation and
stereochemical nomenclature		configuration.

SEM-II CHEMISTRY-I

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical Chemistry.	To study information the	Students get information of
Gaseous state.	gaseous laws like Boyle law,	the gaseous laws like Boyle
	Charles law, Avogadro's law,	law, Charles law, Avogadro's
	Ideal gas law etc.	law, Ideal gas law etc.
	To study the difference	Students will study the
	between Ideal gas equation	difference between Ideal gas
	and Vanderwaal corrected	equation and Vanderwaal
	gas equation.	corrected gas equation.
UNIT II: Inorganic chemistry	To learn about types of	To study about semi-micro
	qualitative analysis. To study	analysis of different
	about acid-base theories and	compounds ,also study about
	their applications.	different definition of acid –
		base theory and their
		applications.
UNIT III: Chemistry of	To gain understanding of	Students are capable to
alkanes, alkenes and alkynes.	reactivity of alkanes, alkenes	recognize the reaction
Its reactions and reactivity.	and alkynes with different	processes involve.
	reagents in different	
	conditions.	

SEM-II CHEMISTRY-II

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical Chemistry.	To study Henderson	Students will know the
Ionic equilibria.	equation of acid and base.	Henderson equation of acid
Molecular spectroscopy.	To study the concept of pH	and base.
Solid state chemistry	and buffers.To provide	Studentsundetstand the
	information of the electro	concept of pH and buffers.
	magnetic radiation, type of	Students get information of
	spectroscopy, region of	the electro magnetic radiation,
	electromagnetic radiation	type of spectroscopy, region
	and application of different	of electromagnetic radiation
	spectroscopic techniques.	and application of different
		spectroscopic techniques.
UNIT II: Inorganic chemistry	To study about the bonding	To learn about different
	and characteristics of ionic	concept of bonding and their
	and covalent compounds. To	strength.
	study the applications of	To learn about oxidation
	redox chemistry with respect	number and oxidation state of
	to extraction of elements and	different elements and also
	reagents used in volumetric	study about balancing redox
	analysis.	reactions. To learn about
UNIT III: Stereochemistry.	To study the stability of	Students are able to

Concept of aromaticity,	cycloalkane.	understand concept of
antiaromaticity and	To study basic concepts	stability.
nonaromaticity. Electrophilic	involve in reaction and its	Students gained an
substitution reactions.	mechanistic pathway.	understanding of predicting
	-	reaction mechanism.

SEM-III CHEMISTRY-I

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical Chemistry.	1. Improvement of	Students understand the
Chemical Thermodynamics-	efficiency processes.	concept of improvement of
11.	2. Making the processes	efficiency processes. Students
Electrochemistry.	more non-polluting and	know the processes about non-
	environmental friendly.	polluting and environmental
	To provide experience in	friendly.Students will study
	types of conductivity, know	and research regarding
	KOHLAUSCH LAW and	alternative energy sources or
	application of conductance	transformation
	measurement. To study	methods.Student learns about
	Transfer number and its	types of conductivity,
	determination by different	KOHLAUSCH LAW and
	methods.	application of conductance
		measurement.Student
		understands the concept of Transfer number and its
		determination by different
		methods.
UNIT II: Inorganic chemistry	To learn lattice energy, VBT	Students differentiate between
	and its hybridization, MOT	directional and non-directional
	and its principle.	bonding.
UNIT III: Organic Chemistry	To understand reactivity of	Students are capable of
Preparation, reactivity and	`compounds of different	applying these knowledge in
Reaction of alkyl and aryl	functional groups.	industrial work.
halide, organomagnesium		
and lithium compound,		
phenols, alcohols and		
epoxides.		

SEM-III CHEMISTRY-II

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical Chemistry.	To study rates of chemical	Students understand the
Chemical Kinetics.	processes. Chemical kinetics	concept of chemical
Solutions.	includes investigations of	processes. Chemical kinetics
	how different experimental	includes investigations of
	conditions can influence the	how different experimental
	speed of a chemical reaction.	conditions can influence the
	To provide knowledge about	speed of a chemical reaction.
	thermodynamics ideal	Student learns about
	solution, Critical Solution	thermodynamics ideal
	Temperature.	solution, Critical Solution
		Temperature.
UNIT II: Inorganic	Study of boron, germanium	Students learned about basics
Chemistry	and silica.	of boron, germanium and
	Preparation of oxide of	silica which have industrial
	nitrogen.	and agricultural importance.
UNIT III: Organic	To gain understanding of	Students are capable of
Chemistry	reactivity of carbonyl	getting outcome of the
Carbonyl compound its	compounds with different	reaction.
reactivity, preparation and	reagents in different	Students are capable of
reactions.	conditions.	applying these knowledge in
Name reactions and active		industrial work.
methylene compounds.		

SEM-III CHEMISTRY-III

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE) Unit-1 Introduction to Analytical chemistry and Statistical treatment of Analytical Data.	To have better understanding of quality control and quality assurance and different types of samplings process.	Students understand the concept of Quality control and quality assurance. Also they learn term Sampling in brief.
Unit-2 Classical methods of analysis	To understand about different types of titration process. To study about basic instruments likes pH meter, Potentiometer. To study about Gravimetric Analysis.	Student understand about different types of titration process. Student learn about basic instruments likes pH meter, Potentiometer. Student know about Gravimetric Analysis.
Unit-3 Instrumental Methods-I	To provide experience in scientific analytical instruments likes Spectrometer and	Students learn about UV- visible spectrophotometry i.e. Spectrometer and colorimeter.

colorimeter (UV-visible	
spectrophotometry)	

SEM-IV CHEMISTRY-I

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical Chemistry.	To provide the knowledge of	Students understand the
Electrochemistry-II.	electrochemical Conventions,	concept of electrochemical
Phase Equilibria.	Nernst	Conventions, Nernst
	equation,Thermodynamics	equation, thermodynamics
	properties like Change in	properties like Change in
	Entropy, enthalpy change and	Entropy, enthalpy change
	Free energy change.	and Free energy change.
	To provide knowledge about	Student learns about
	different terms involved in	different terms involved in
	Phase rule likes Phase, Number	Phase rule likes Phase,
	of components, Number of	Number of components,
	freedom etc.	Number of freedom etc.
Unit II: Inorganic Chemistry	Identify the transition metals on	1)To understand the general
Transition elements	the periodic table.	characteristics of the d
&coordination chemistry.	Describe the characteristic	block elements
	electron configuration of the	2)To know the structure and
	transition elements.	bonding of important
		coordination compounds ·
	To understand the key features	To understand the magnetic
	of coordination compounds,	properties of complexes and
	including:	to know how magnetic
	the variety of structures,	moments can be employed
	oxidation numbers and	for the interpretation of
	electronic configurations	their structure · To get an
	coordination numbers, ligands,	overview about the
	chelates bonding, stability of	stereochemistry of
	complexes.	coordination compounds.
UNIT III: Organic	To study basic concepts involve	Students are capable of
Chemistry	in reaction and its mechanistic	getting outcome of the
Carboxylic acid and its	pathway.	reaction.
derivative.	To understand reaction	Students are capable of
Study of Sulphonic acid.	outcome.	applying these knowledge
		in industrial work.

SEM-IV CHEMISTRY-II

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Physical Chemistry.	To provide the knowledge of	Students knows the types of

Solid State.	types of crystal and Laws of	crystal and Laws of
Catalysis	crystallography. To study the	crystallography. Students
	characteristics of Simple	know characteristics of
	cubic, Face centre and Body	Simple cubic, Face centre and
	centre etc. To study the	Body centre etc. Students will
	determination of Avogadro's	study the determination of
	numbers. To provide	Avogadro's numbers.Students
	knowledge about	will study about
	homogeneous and	homogeneous and
	heterogeneous catalysis. To	heterogeneous catalysis.
	know the terms like catalytic	Students know the terms like
	activity, catalytic selectivity,	catalytic activity, catalytic
	inhibitors, promoters etc.	selectivity, inhibitors,
		promoters etc.
Unit II: Inorganic Chemistry	To understand the acidity of	1)To understand the general
Aqueous medium&	cations and basicity of anions	classification of aqueous
environmental chemistry of	in aqueous medium.	cation& anions also their pH
volatile oxides &oxo –acids.	To learn the properties and	classification which is useful
	applications of oxoacids of	in industry.
	N, P & S.	2)To learn about proportions
		of all elements in the form
		oxoacids present in
		environment which cause acid
		rain photochemical smog
		.Learn about how to control
		the amount of such a
		hazardous elements to prevent
		environment.sssss
UNIT III: Organic	To study about amines,	Students are able to
Chemistry	diazonium compound and	understand synthetic outcome
Study of amines, diazonium	heterocyclic compound its	of reactions.
and heterocyclic compound.	reactivity and synthesis.	

SEM-IV CHEMISTRY-III

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Unit- 1	To have better understanding of	Students understand the concept
Analytical	Analytical separation techniques like	of Precipitation, Filtration,
Separation	Precipitation, Filtration, Centrifugation,	Centrifugation, Electrophoresis,
	Electrophoresis, Solvent Extraction and	Solvent Extraction and
	Classifications of Chromatography.	Classifications of
		Chromatography.
Unit-2	To provide experience in scientific	Student learn about basic
Instrumental	analytical instruments likes pH meter,	instruments likes pH meter,
Methods-II	Condctometer.	Condctometer.
Unit-3	Statistical Treatment of Analytical Data	Students learn about practical

Statical	provides a practical understanding of	understanding of statistical
treatment of	statistical treatment of data and how to	treatment of data.
Analytical data	apply it in actual day-to-day activities in	
-	the laboratory to improve the quality and	
	reporting of analytical data	

SEM-V

CHEMISTRY-I(PHYSICAL CHEMISTRY)

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE) Unit 1:molecular spectroscopy Unit 2:chemical thermodynamics	To learn the basics of all rotational ,vibrational ,translation spectroscopy as well as its application To understand the basics of Raman spectroscopy and comparison between IR & Raman spectra. To learn the colligative properties of dilute solution and the methods used to determine the molecular mass of it. To study the kinetics of fast reactions and it's method.	To imparts the students for getting basic concept of all types of spectroscopy and its application. Due to study colligative properties of all types its help to predict proportion of molar mass in biological reaction like sucrose reaction .also due to study of kinetics it is easy to predict rate of every reaction in
Unit 3:Nuclear chemistry Unit 4:Surface chemistry	To learn the basic terms involved in nuclear chemistry. To understand how the nuclear radiations are detected and measured by different instruments. To study the nuclear fission & nuclear reactors and the applications. To learn about physical adsorption and chemical adsorption. To understand	day to day life. It helps study the nuclear radiation reaction which is widely use to convert nuclear energy into electrical energy. Due to study of nuclear reaction biological application for various disease are calculated cure also. To study the adsorption helps to predict phase change with
	different adsorption and electrolysis	respect to temp and pressure. Electrolysis process helps to predict biological function.

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE) Unit 1: chemical bonding	To make students aware about symmetry elements present in the molecules, to perform different operation on the molecules.	It is help to study different operation woeking to predict point group with respect to symmetry.
Unit 2:Solid state chemistry and Superconductivity.	To make students understand the packing density in crystals ,concept of voids . To understand the phenomenon of superconductivity and the properties of superconductors	To study details about crystal properties of solid ores and alloy n predict purification n stability of it. Also aware about use of superconductivity in 21 st century for current Production.
Unit 3:Inner transition elements	To study the of inner transition elements, their properties and separation methods.	It is help to predict study of inner transition elements with respect to its application. Like uranium.
Unit 4:Some selected topics like pseudohalogen, interhalogen	To study the acid – base and redon reactions in non-aqueous solvents, pr To study ofinterhalogen and xenon compounds of its properties .	To aware students about use of noble gases in current life .n learn reactivity of water as an universal solvent.

SEM-V

CHEMISTRY-III (ORGANIC CHEMISTRY)

NGP,ArNu substitution, Pericyclic reaction and pyrolytic elimination. Photochemistry: Introduction and NGP,ArNu substitution, Pericyclic reaction and pyrolytic elimination. Photochemistry: Introduction and Introduce students to many of the key concepts of organic chemistry. Particular emphasis is placed on the underlying mechanistic Describe bonding models at		
organic reactions, NGP,ArNu substitution, Pericyclic reaction and pyrolytic elimination. Photochemistry: Introduction and Photochemistry: Photochemistry: Photochemistry: Organic reactions, chemistry course is to introduce students to many of the key concepts of organic chemistry. Particular emphasis is placed on the underlying mechanistic functional groups and their reactivity, many fundament bond forming reactions and how to apply them in synthesis Describe bonding models at	JO	BJECTIVES OUTCOME
NGP,ArNu substitution, Pericyclic reaction and pyrolytic elimination. Photochemistry: Introduction and Introduce students to many of the key concepts of organic chemistry. Particular emphasis is placed on the underlying mechanistic Introduce students to many of the key concepts of organic bond forming reactions and how to apply them in synthesis Describe bonding models at	Students rec	f this organic Students recognize many
Pericyclic reaction and pyrolytic elimination. Photochemistry: Introduction and the key concepts of organic chemistry. Particular emphasis is placed on the underlying mechanistic the key concepts of organic how to apply them in synthesis Describe bonding models at	functional g	course is to functional groups and their
pyrolytic elimination. Photochemistry: Introduction and chemistry. Particular emphasis is placed on the underlying mechanistic chemistry. Particular emphasis is placed on the underlying mechanistic Describe bonding models at	of reactivity, m	students to many of reactivity, many fundament
Photochemistry: Particular emphasis is placed synthesis Introduction and on the underlying mechanistic Describe bonding models a	bond formir	oncepts of organic bond forming reactions and
Introduction and on the underlying mechanistic Describe bonding models a	how to appl	how to apply them in
	d synthesis	emphasis is placed synthesis
	tic Describe bo	derlying mechanistic Describe bonding models at
	appreciate h	that are involved appreciate how these impac
olefins and carbonyl together with some of their on the properties of a simple	on the prope	with some of their on the properties of a simple
compound. stereochemical consequences. molecule	es. molecule	mical consequences. molecule
Apply curly arrow	Apply curly	Apply curly arrow
nomenclature to depict the	nomenclatur	nomenclature to depict the
mechanistic course of a	mechanistic	mechanistic course of a
reaction	reaction	reaction
Appreciate when different	Appreciate v	Appreciate when different
reactions are likely to comp	reactions are	reactions are likely to comp
and ways to bias reactions	and ways to	and ways to bias reactions
towards a single outcome	towards a si	towards a single outcome

		Understand and apply the concept of protecting groups
UNIT II : Stereochemistry I Molecular chirality and	To understand stereoisomers of organic compounds, and recognise diastereomers,	Students are able to recognise diastereomers, enantiomers, meso compounds and centers
elements of symmetry. Chirality of compounds without stereogeniccsntre.	enantiomers, meso compounds and centres of symmetry, stereoisomers of	of symmetry, stereoisomers of chiral compounds.
Heterocyclic chemistry. Reactivity, preparation and reactions pyridine N-oxide, quinolone and	chiral compounds that do not contain a stereogenic carbon centre and assign the configuration of the	
Isoquinoline.	stereoisomers.	
UNIT III: IUPAC of Bicyclic compounds,	To provide knowledge of systematic naming of organic	Students are able to recognize name and structure of
Biphenyls, Cummulenes, Quinolines and	compound. To emphasis on the underlying	compound. Students are able to do
isoquinolines.	mechanistic pathways.	mechanism of reaction.
Synthesis of organic compounds.		
UNIT IV : Spectroscopy	To understand the principle of	
Introduction, UV-Visible and Mass spectrometry.	UV-Visible and Mass spectroscopy.	
Study of natural products.	To get information of structure and synthesis of certain natural products.	

SEM-V CHEMISTRY-IV

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
Unit-1 Concept of Quality Control and Quality assurance, Chemical Calculation and Sampling.	To have better understanding of quality control and quality assurance and different types of samplings process.	Students understand the concept of Quality control and quality assurance. Also they learn term Sampling in brief.
Unit-2	To establish an appreciation of the	Student understand the role
Titrimetric Analysis	role of Chemistry in quantitative	of Chemistry in quantitative
	analysis.	analysis.
	To understand about different types	Also they know about
	of titration process.	different types of titration
		process.
Unit-3	To provide experience in scientific	Students learn about UV-
Optical Methods	analytical instruments likes	visible spectrophotometry

	Spectrometer(single beam and double	i.e. Spectrometer and
	beam spectrophotometer) and	colorimeter.
	colorimeter (UV-visible	
	spectrophotometry)	
Unit-4	To understand the terms like	Students understand about
Methods of	filtration, distribution, distillation etc.	different methods of
separation-I		separation with basic
		separation terms.

SEM-VI

CHEMISTRY-I (PHYSICAL CHEMISTRY)

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Unit 1: Elctrochemistry	To learn the basic terminologies involved in electro chemistry. To study the classification of cells. To understand the polarization process, decomposition potential and over voltage and application of it.	To imparts the students for getting basic concept of electrochemistry cell and also aware about the application of electrochemisty in day to day life.
Unit 2: polymer	1. To learn the basic terminologies involved in polymer chemistry. 2. To study the classification of polymers, molar masses and their determination. 3. To know what are light emitting polymers, antioxidants and stabilizers. POLYMERS	Identify strength of different polymer based on their classification. Estimate number and weight average masses of polymer samples given by degree of polymerization.
Unit 3: Quantum and Renewable energy sources	To study the limitations of classical mechanics. 2. To learn the basics of quantum mechanics and terminologies involved in it. 3. To study the renewable energy sources: solar energy and hydrogen as fuel.	To study the basic postulates of quantum mechanics To impart the students concepts of the fundamentals of quantum mechanics and its applications in the study of structure of atoms,
Unit 4:NMR and ESR	To study the principle, instrumentation, working and applications of NMR. 2. To study the principle, instrumentation, working and applications of ESR	To predict different structure of organic as well as inorganic compounds. To study the differences between NMR and ESR spectroscopy.

SEM-VI

$CHEMISTRY-II(\ INORGANIC\ CHEMISTRY)$

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Unit 1:Crystal	(CFT) a bonding model that explains	To understand the general

field theory	many important properties of transition-metal complexes, including their colors, magnetism, structures, stability, and reactivity. The central assumption of CFT is that metal-ligand interactions are purely	characteristics of the d and f block elements To give the students a thorough knowledge of the different theories to explain the bonding in coordination compounds
Unit 2 :Theories of metal ligand bond	electrostatic in nature. Outline the basic quantum-mechanical approach to deriving molecular orbitals from atomic orbitals Relate these electron configurations to the molecules' stabilities and magnetic properties The main aim of this course is to teach the student the chemistry of complexes. So, learning the coordinate bond theory is one of the aims. The student must learn geometrical, optical, linkage, coordinate isomer and Jahn-teller distortion with electronic spectra of TM complexes.	To understand the basic concepts and mechanism in organic chemistry · To get an idea about the various kinetic and thermodynamic factors which control the organic reactions · To know stereochemistry and various possible conformations of organic compounds and how it affects the reaction outcome).
Unit :3 organometallic chemistry	The focus of this course is on the synthesis, structure and bonding, properties and reactivity of main group organometallics	Upon successful completion, students will have the knowledge and skills on satisfying the requirements of this course, students will have the knowledge and skills to Explain and rationalize the synthesis, structure, bonding, properties and reactivity of both main group and transition metal. To improve the level of understanding of the chemistry of organometallic compounds, metal carbonyls and metal clusters.
Unit :4 Metallergy	Metallurgy customarily refers to commercial as opposed to laboratory methods. It also concerns the chemical, physical, and atomic properties and structures of metals and the principles whereby metals are combined to form alloys.	To understand the basic concepts ,process to how separated and converted inpure metal into pure metal from alloy or ore.this course have importance in mining process.

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Unit I) Stereochemistry: stereoselectivity and stereospecificity , topicity and stereochemistry of SN , E2 ,bromination,sy nhydroxylation and epoxidation. Amino acids and Proteins: General theory preparation and reactions. Study of polypeptide and proteins.	To understand the concept of basic terms such as selectivity, specificity, topicity. To understand the stereochemistry of some selected reactions. It aims to study about amino acids and proteins. How they are synthesized. It also include study of polypeptides.	The students are able to understand the concept of selectivity, specificity and topicity. Students are able to understand stereochemical outcome of the reaction. Students are able to understand general theory and structure of amino acids and proteins. They studied about its preparation and reactions. They also understand about polypeptides.
Unit II) Molecular Rearrangement: mechanism of electron deficient carbon and nitrogen and carbanion and some name reaction. Carbohydrates: introduction, structure, stereoisomers, synthesis and reactions.	The main objective of this unit is to focus on reactivity and stability of certain electron deficient carbon and nitrogen also about electron rich carbon. This unit also emphasis on name reactions. To understand about sugars its open and cyclic forms, its stability, mutarotation, natural abundance, preparation, and reactions.	Students gained an understanding of reactivity and stability of organic molecule based on its structure including conformation and stereochemistry. Students are able to have knowledge of general structure and cyclic form of sugars its stereochemistry and synthesis of glucose and arabinose. They also studied about reactions of it.
Unit III) Spectroscopy: Theory and applications of IR and NMR spectroscopy. Spectral problems Nucleic acid: Structure of	To understand the principle of IR and NMR spectroscopy. Its characteristics, spectral data, theory behind that and spectral problems in interpretation of structure of compound. To get information of structure and function of DNA, RNA, Sugars, Bases, Nucleotides, Nucleosides and Nucleic acid.	Students are able to interpret UV-Visible, IR, NMR and Mass Spectroscopy. They will able to understand basic principle of these and handling method. Mainly they will be able to interpret the structure of compound by knowing spectral data. Students are familiar of structure and characteristics of DNA, RNA,

DNA and RNA		Bases, Nucleotides and
and Nucleic		Nucleosides.
acid.		
Unit IV)	To study about structure and uses	On completion of course students
Polymers:	of addition and condensation	will be to describe the general
Introduction,	polymers. To study biodegradable,	structure, uses and synthesis of
addition and	natural and synthetic polymers. To	polymer. They also gained
condensation	understand stereochemical outcome	information of biodegradable
polymer,stereoc	by using Zeigler Natta Catalyst.	polymers.
hemistry natural		
and synthetic	To understand use of reagents and	Students are able to understand
polymer.	catalyst in certain reaction and its	which types of catalyst and reagents
Additives and	selectivity.	are used on a suitable substrate.
biodegradable		
polymers.		
Catalyst and		
reagents: Raney		
Ni ,Pt and Pto2,		
Rosendmund		
and lindler's		
catalyst.		
Reagents for		
oxidation,reduct		
ionepoxidation		
and		
bromination.		

SEM-VI CHEMISTRY-IV

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Unit-1	To study an analyte by measuring	Students know about potential
Electro	potential and current in	measurements by electrochemical
Analytical	electrochemical cell.	cells like Polarimeter and
Technique		Amperometer.
Unit-2	To understand the Instrumentation	Students study about
Methods of	of Gas Chromatography, HPLC.	Instrumentation of Gas
Separation-II		Chromatography, HPLC in details.
Unit-3	To enrich and enhance the quality of	Students learn about quality of our
Food and	our daily lives by investigating the	daily lives by studying the features
Cosmetic	features of bio resources.	of bio resources.
Analysis.		

Unit-4	To understand the different kinds of	Students understand the different
Thermal	Thermal Methods and	kinds of Thermal Methods.
methods	Instrumentation regarding Thermal	Students have better understanding
Analytical	process.	of validation process.
Method	To have better understanding of	
Validation	validation process used in industry.	

SEM-VI CHEMISTRY-V(APLIED COMPONENT-DRUGS AND DYES).

SALLABUS	OBJECTIVES	OUTCOME
UNIT WISE		
UNIT I DRUGS	To understand process involve in	The students understand importance
Drug discovery,	drug discovery and to make	of drugs.
designs and	interest of students in that.	
development.		
Drug metabolism,		
Chemotherapeutic		
agents, Anti-		
biotic, antiviral,		
Antifungal,		
Anthelmintic and		
Antimalarial		
Drugs.		
UNIT II DRUGS	To have idea of deferent drugs	Students are capable of knowing the
Antiamoebic,	use in life generally its dosage,	use of mentioned drugs in deferent
Antitubercular,	benefits and side effect.	situations.
Antileprotic,		
Antineoplastic,		
Anti HIV Drugs.		
Drug		
intermediates.		
Nano particle in		
medicinal		
chemistry. Drugs		
and		
environmental		
aspects.		
UNIT III DYES	To understand the properties and	This study make students capable of
Classification of	application of dye on various	understanding dyeing processes and
dyes based on	substrate.	help in future to work as chemist.
chemical	To study health hazardous of dye	Students have idea of health
constitution and	and method to avoid this.	hazardous of dyes.
synthesis of		_
selected dyes.		
Health and		
environmental		

hazards of synthetic dyes and their remediation processes.		
UNIT IV DYES Biomedical uses of dyes. Dyes used in foods and cosmetics. Paper and leather dye. Hair and leaser dyes. Indicators, security ink	To study the importance of dyes in medicine, foods, cosmetics, paper, leather, hair and laser.	Students now about different uses of drugs its importance and side effect.
.Pigments. Dyestuff industry.		

PROGRAMME SPRCIFIC OUTCOME:

DEPARTMENT OF ZOOLOGY

SR.NO	PROGRAMME SPECIFIC OUTCOME
1)	Learners would be amazed to know and understand beautiful world of animals and their interactions with surroundings.
2)	They will be able to correlate their existence with the other forms of the life on the earth.
3)	They can learn about the physiology, Anatomy, structures of cells, regulation, evolution, hierarchy and fundamental of all life forms.
4)	They will also explore the process of formation of different life forms on cellular basis. They can also distinguished between the different animals and appreciate the biodiversity.
5)	They will acquire the knowledge about environmental concerns and will contribute to conservation, management and sustainability.
6)	Learners will gain and implement the lessons of coexistence with nature.
7)	They will understand the technological advancement being made in biotechnology, medicinal sciences and contribute their own part.
8)	`Learners can also embark on an excursion of research through research ethics and methodology.

COURSE OUTCOME:

B.Sc. IN ZOOLOGY

SEM-I ZOOLOGY-I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Wonders of animal world	1) To get learners fascinated by the world of animals.	1) Learners will be fascinated by the amazing world of animals.
	2) To take them through a captivating journey hoarded with marvelous facts about animals.	2) Learners will have their interest enhanced through the captivating journey.
	3) To develop their interest in the subject.	3) They will develop love for the zoology subject.
UNIT II: Biodiversity and its conservation	1) To orient learners about rich heritage of biodiversity.	1) Learners would appreciate treasure of biodiversity.
Conservation	2) To guide them in detail through the various aspects of flora and fauna.3) To make them understand the	2) Learners will gain the knowledge of different levels and forms of biodiversity.3) They will learn to contribute
	significance of its conservation.	their best for the conservation and management for the same.
UNIT III: Footsteps to be followed	1) To impulse learners to think out of the box.	1) Learners mind would be triggered to think differently (from the entrepreneur point of view).
	2) To teach learners innovative and novel work of scientists/philosophers/entrepreneurs.	2) Learners will learn astonishing stories of great personalities who had contributed to the field of science and technology.
	3) To invoke in them the ideas to make advancement in biological sciences.	3) They would come up with their own crude ideas for the advancement of biological sciences.

SEM-I ZOOLOGY-II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		

	<u> </u>	
UNIT I:	1) To educate learners about the	1) Learners would gain
Laboratory	safety measures in the laboratory.	knowledge about how to work
safety, Units		safely in the laboratory.
and	2) To make them aware about the	2) They will boost up their
Measurements.	importance of being alert and	scholastic performance by being
	cautious during an experiment.	cautious.
	3) To instill in them the skill of	3) They will learn meticulous
	preparing chemicals precisely and	preparations of chemical to
	avoiding wastage during an	maintain the economy of the
	experiment.	materials.
UNIT II:	1) To expose the emerging field of	1) Learners would understand the
Animal	biotechnology to the learners.	recent advancement in
Biotechnologies		biotechnologies.
	2) To give them practical knowledge	2) They will also learn its
	regarding various aspects of animal	application for the betterment of
	biotechnology.	mankind or society in general.
	3) To inspire them to take the field of	3) Their minds would be ignited
	biotechnology as their future research	to think out of the box in terms of
	topics.	biotechnology.
UNIT III:	1) To teach them to operate various	1) Learners will develop skills to
Instrumentation	instruments for experiments.	operate suitable instruments for
		their practical protocols.
	2) To give them an insight about	2) They will learn about different
	practical zoology.	components of practical zoology.
	3) To prepare them for meticulous	3) They will gain a better insight
	experimentations in the future.	of future research
		experimentation.

SEM-II ZOOLOGY-I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To facilitate the learning of	1) Learners would be exposed to
Population	population ecology.	the nature of population ecology.
ecology	2) To teach them dynamics and	2) They will understand various
	regulatory factors important for the	factors affecting the growth of
	sustenance of population.	population.
	3) To highlight the need of studying	3) They will gain a deep insight
	concepts related to population	into population related
		phenomenon.
UNIT II:	1) To impart knowledge of different	1) Learners will grasp the concept
Ecosystem	components of ecosystem.	of physical, chemical and
		biological factors of environment.
	2) To educate learners about the	2) They will learn about
	relationship of biotic and abiotic	interdependence of biotic and
	factors.	abiotic components.

	3) To teach learners about	3) They will learn about the effect
	conservation of all flora and fauna.	of loss of flora and fauna on
		human being.
UNIT III:	1) To enlighten learners about national	1) Learners would study about
National Parks	parks, sanctuaries and its inhabiting	various national parks and
and	wildlife.	sanctuaries of the country.
Sanctuaries of	2) To guide them through the current	2) They would get to know about
India	status of wildlife in the light of	the current status of biodiversity
	guidelines from different governing	and its conservation.
	agencies.	
	3) To help them choose a career in	3) They would be inspired to
	wildlife related fields.	choose a career in specific
		conservation, photography and
		ecotourism.

SEM-II ZOOLOGY-II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To make learners understand the	1) Learners would be given
Nutrition and	importance of balanced diet and	knowledge about sound health
health	essential nutrients.	and its importance.
	2) To encourage them to make and	2) They would be inspired to take
	lead a healthy life and environment.	up healthy life style.
	3) To guide them to eliminate	3) They will learn to prevent the
	unhealthy eating habits from daily	risk of developing health hazards
	routine at different stages of life.	due to faulty dietary habits.
UNIT II: Public	1) To impart knowledge about source,	1) Learners would be encouraged
health and	quantum and need for conservation of	to conserve water and electricity.
hygiene	various resources.	
	2) To teach them essentials of	2) They would be inspired to
	maintaining proper sanitation and	maintain adequate personal
	hygiene.	hygiene and avoid addiction of all
		sorts.
	3) To make learners grow into	3) They would learn to achieve
	healthy, aware and independent	goal of healthy young India in
	individuals.	true sense.
UNIT III:	1) To educate learners about various	1) Learners would study about
Common	disorders related to stress.	stress related problems and their
human diseases		relevant solutions.
and disorders	2) To make them able to promptly	2) They would be encouraged to
	recognize stress related symptoms at	develop a sound psychological
	initial stages.	state of mind.
	3) To teach them about various	3) They will acquire knowledge
	infectious diseases and help them	of causes, symptoms, precautions
	develop positive attitude important	of infectious diseases.
	for academics.	

SEM-III ZOOLOGY-I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Fundamentals of Genetics	1) To make learners able to learn the concept of heredity and inheritance.	1) Learners would comprehend and apply the principles of inheritance to study heredity.
	2) To make them aware about the principles of alleles, linkage, recombination and crossing overs.	2) Learners would understand the concept of multiple allele, linkage, crossing over.
	3) To give them knowledge about the work of Mendel and his contribution to genetics as Mendelian inheritance.	3) Learners would develop conceptual clarity of Mendelian Inheritance.
UNIT II: Chromosome and Heredity	1) To teach them the basic structure and types of chromosome.	1) Learners will comprehend the structure of chromosome and its different types.
	2) To make them understand the concept of sex determination by the combination of sex chromosomes in different animals.	2) Learners will understand the mechanism of sex determination in different life forms.
	3) To make them learn about various chromosomal aberrations and its effect.	3) Learners would be able to understand and correlate disorders with chromosomal abnormalities.
UNIT III: Nucleic acids	1) To teach them the basic structure of nucleic acids.	Learners will understand the concept of nucleic acids as genetic material
	2) To get them fascinated about the whole concept of gene expression in the form of proteins.	2) Learners will study the concept of gene expression and regulation.
	3) To make them understand the theory of central dogma of molecular biology and hierarchy of biomolecules.	3) Learners will grasp the idea and significance of central dogma.

SEM-III ZOOLOGY-II

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Nutrition and Excretion	1) To introduce the concepts of physiology of nutrition, excretion and osmoregulation.	1) Learners would understand the concept of physiology of nutrition, excretory system along with functions and
	2) To expose the learners to various	osmoregulation. 2) Learners would be able to
	nutritional apparatus, excretory and osmoregulatory structures.	correlate the importance of various nutritional apparatus, osmoregulatory structures.
	3) To teach them evolution related to physiology of nutrition and excretion.	3) Learners would be exposed to the concept of evolutionary hierarchy in physiology of nutrition, excretion.
UNIT II: Respiration and circulation	1) To introduce the concepts of physiology of respiration and circulation.	1) Learners would understand the complexity of respiratory and circulatory physiology.
	2) To expose the learners to various respiratory and circulatory organs in different classes of organisms.	2) Learners would be able to correlate the habit and habitat of animals with respiratory and circulatory organs.
	3) To teach learners about the evolutionary pattern seen in physiology of respiration and circulation.	3) Learners would be exposed to the concept of evolutionary hierarchy seen in physiology of respiration and circulation.
UNIT III: Control, Coordination locomotion and	1) To make learners understand about the concept of control and coordination involving nervous and endocrine system.	1) Learners would understand the process of control and coordination by nervous and endocrine regulation.
Reproduction.	2) To teach them about various locomotary structures.	2) Learners would be astonished by various locomotary structures of animal kingdom.
	3) To give them knowledge about reproductive processes in animals	3) Learners would be acquainted with various reproductive strategies in animals.

SEM-III ZOOLOGY-III

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To teach learners about basic	1) Learners would gain an
Ethology	ethology through different behavioral	insight into different types of
	pattern.	animal behavior.
	2) To give them knowledge regarding	2) Learners will understand the
	various adaptations in animals.	biological adaptations of various animals.
	3) To acquaint them to the process and	3) Learners would be sensitized
	significance of instrumental learning.	to the concept of instrumental
		learning.
UNIT II:	1) To acquaint the learners with the	1) Learner will understand the
Parasitology	concept of parasitism.	epidemiology of various types of
		parasites.
	2) To introduce the learners to modes	2) Learners would be gaining
	of transmission of parasites.	knowledge about the life cycles
		and sources of dreadful
		parasites.
	3) To teach the learners about how	3) Learners will learn to take
	simple preventive measures can be	simple prevention measures of
	taken to tackle the infections.	these parasitic infections.
UNIT III:	1) To disseminate information on	1) Learners would gain
Economic	economic aspects of animals like	knowledge about various
Zoology	apiculture, vermiculture and dairy science.	animals useful to mankind.
	2) To acquaint them with all the	2) Learners would learn the
	aspects of animal husbandry.	modern concepts and techniques
		of animal husbandry.
	3) To encourage young learners for	3) Learners would know the
	self-employment.	concepts or ideas of pursuing
		entrepreneurship as a career.

SEM-IV ZOOLOGY-I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I: Origin	1) To impart scientific knowledge to	1) Learners will gain insights
and Evolution	the learners about how life originated	into the concept of origin of life.
of life	on planet earth.	
	2) To teach them about various	2) Learners will also analyze
	theories of evolution.	different theories of evolution.
	3) To make them understand about the	3) Learners will critically view
	significance of evolutionary history on	the topic of origin of life.
	earth.	
UNIT II:	1) To develop an understanding in the	1) Learners will understand the
Population	learners about genetic variability	forces that caused evolutionary

Genetics and	within a population.	change.
Evolution	2) To teach them about how the	2) Learners would enjoy
	change in gene pool leads to evolution	studying the mechanism of
	of species and speciation.	speciation.
	3) To acquaint them about various	3) Learners will be able to
	types of evolution.	distinguish between micro-
		evolution, macro-evolution and
		mega-evolution.
UNIT III:	1) To inculcate scientific temperament	1) Learners will develop
Scientific	in the learners.	qualities such as critical thinking
Research,		and analysis.
attitude and	2) To make them understand about	2) Learners will imbibe the skills
Methodology	various tools of research methodology.	of scientific communications.
	3) To teach them about the correct	3) Learners will understand the
	procedure of how to conduct an ethical	ethical aspect of Research.
	research.	

SEM-IV ZOOLOGY-II

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Cell biology	1) To study the structural and functional organization of cell.	Learners will acquire knowledge about cellular organization.
	2) To teach them about various cellular organelles with an emphasis on nucleus, plasma membrane and cytoskeleton.	2) Learners will be able to know about various organelles.
	3) To give them knowledge about cytoplasmic components and various transport mechanisms.	3) Learners will gain insight into the composition of cytoplasm and transport mechanisms.
UNIT II: Endo- membrane system	1) To acquaint the learners with the ultra-structure of cell organelles and their functions.	1) Learners would appreciate the intricacy of endo-membrane system.
·	2) To teach them about the regulatory factors required for smooth functioning of cell	2) Learners would understand the interlinking of endo- membrane system for functioning of cell.
	3) To imbibe in them the concept of energy production and expenditure at cellular level.	3) Learners would gain knowledge about energy production in cell.
UNIT III: Bio- molecules	1) To give learner insight into the structure of biomolecules.	1) Learner will realize the importance of various biomolecules.
	2) To make them understand the role of biomolecules in the sustenance of life	2) Learners will understand the critical significance of biomolecules.

3) To teach them about micro molecules	3) Learners will acquire
and macro molecules.	knowledge about the monomers
	and their polymers.

SEM-IV ZOOLOGY-III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Comparative Embryology	1) To acquaint the learners with key concept of embryology.	1) Leaners will be able to understand the concept of egg and sperm.
	2) To teach them to compare the different pre-embryonic stages.	2) Learners will gain insights into the stages of pre-embryonic development.
	3) To give them knowledge about entire process of formation of neo-natal stages.	3) Learners will be amazed by the knowledge of formation of life, from the single cell form.
UNIT II: Aspects of Human	1) To acquaint the learners with different aspects of human reproduction.	1) Learners will understand human reproductive physiology.
Reproduction	2) To teach them about various causes of infertility and techniques to overcome it.	2) Learners will become familiar with the revolutionary advances in 'IVF' and other 'ART' procedures.
	3) To make them aware of the ethical aspects of birth control, ART.	3) Learners will be acquainted with the ethical issues related to natural process of reproduction and ART.
UNIT III: Pollution and its effect on	1) To provide a panoramic view of human activities leading to pollution.	1) Learners would be sensitized about the alarming issue of pollution and its various types.
organism	2) To give them insight into various implications of pollutions.	2) Learners will understand the adverse effects of pollution on all walks of life.
	3) To sensitize learners about adverse effects of pollution and measures to control it.	3) Learners would be triggered to think and learn about the controlling measures for the same.

SEM-V ZOOLOGY-I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To introduce the learners the principle	1) Learners will understand
Principles of	of taxonomy.	the principles of taxonomy and
Taxonomy		modern system of

		classification.
	2) To teach them modern system of classification to give them an evolution point of view.	2) Learners will catch up the basis of classification and modern classification of the
	point of view.	lower invertebrate animals.
UNIT II: Kingdom: Animalia I	1) To teach them general characters and classification of kingdom Animalia from Porifera to Nematode.	1) Learners will understand the classification of animals from Phylum Porifera to phylum Nematoda along with representative examples.
	2) To familiarize the learners with the interesting examples of specific phylum.	2) Learners will get chance to apprehend the general characters and specific characters of each example of phylum.
UNIT III: Kingdom : Animalia II	1) To teach learners basic concept of classification from Phylum Annelida to hemichordate.	1) Learners will get an idea of higher groups of invertebrate animal life, along with their habitat and their peculiar aspects
	2) To familiarize them with the general and specific characters of the specific phylum.	2) Learners will be introduced to the basic concepts of classifications of Phylum annelid to phylum hemichordate.
UNIT IV: Type study: Sepia	1) To acquaint learners with the details of Sepia as a representative of invertebrate animals.	1) Learners will get an idea of general habitat, various systems of this animal in detailed manner.
	2) To teach them general characters of Sepia.	Learners will get an idea of general characteristics of this animal.

SEM-V ZOOLOGY-II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I: Basic	1) To teach learners the composition of	1) The learners would be
Hematology	blood, hematopoiesis and hemorrhage.	introduced to basics of
		hematology.
	2) To acquaint the learners with the basic	2) The learners will be able to
	concept of physiology of blood clotting,	identify various components
	clinical aspects of hematology.	of haemostatic systems

UNIT II:	1) To introduce the learners the basic	1) The learners shall be
Applied	concept of applied hematology.	acquainted with diagnostic
Hematology		approach in hematological
		disorders.
	2) To impart them knowledge about	2) The learners will be better
	diagnostic techniques in pathology.	equipped for further
		pathological course or
		working in a diagnostic
		laboratory
UNIT III: Basic	1) To introduce the learners to the topic	1) The learners shall
Immunology	of immunology by emphasizing on the	comprehend the types of
	basics to build a strong foundation.	immunity and the components
		of immune system.
	2) To impart them knowledge about	2) The learners will realize
	significance of immune system in	the significant role of immune
	disease resistance.	system in giving resistance
		against diseases.
UNIT IV:	1) To introduce immunopathology and	1) The learners will develop
Applied	immunological perspectives of organ	basic understanding of
immunology	transplantation.	immunology of organ
		transplantation
	2) To introduce the concept of vaccines	2) The learners shall
	and vaccinations.	understand immune-
		pathology and the principles
		and applications of vaccines.

SEM-V ZOOLOGY-III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I:	1) To introduce learners to the concept	1)Learners would be
Mammalian	of planned organization of tissues and	familiarized with the cellular
histology	cells.	architecture of the various organs in the body
	2) To make them understand the need	2) Learners would appreciate
	and importance of various types of	the well planned organization
	tissues in vital organs.	of tissues and cells in the organ systems
UNIT II:	1) To introduce the learner to the	1) The learners will be able to
Toxicology	principles of toxicology with emphasis	develop broad understanding
	on toxic response to chemical exposures.	of the different areas of toxicology.
	2) To develop amongst learners an	2) The Learners will also
	introductory understanding of regulatory	develop critical thinking that
	affairs in toxicology.	will assist students in
		preparation for employment
		in pharmaceutical industry.

UNIT III:	1) To teach them about the basics of	1) The learners will be
General	general pathology.	allowed to have a deep
pathology		understanding of general
		pathology.
	2) To impart knowledge of retrogressive,	2) Learners will be exposed to
	necrotic, pathological conditions and	various medical terminologies
	repair mechanisms of the body.	pertaining to pathological
		condition of the body caused
		due to various diseases.
UNIT IV:	1) To familiarize learner with	1) The learners will be able to
Biostatistics	biostatistics as an important tool of	collect, organize and analyze
	analysis.	data using parametric and
		nonparametric tests.
	2) To teach them about the wide	2) The learners will be able to
	application of biostatistics.	set up a hypothesis and verify
		the same using limits of
		significance.

SEM-V ZOOLOGY-IV

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Integumentary system and derivatives	1) To introduce the learners the concept of different integumentary structures.	1) Learners will be able to understand the importance of various types of epidermal and dermal derivatives along with their functions.
	2) To teach them about various derivatives of integument in vertebrates.	2) The learners would be acquainted with special derivatives of integument and their structures along with specific origin.
UNIT II: Human Osteology	1) To introduce the learner to different types of bones of human skeleton.	1) Learners will be studying the structure, types and functions of human skeleton
	2) To give them knowledge about functional importance of human skeleton and associated structures.	2) Learners would identify and learn different bones of human skeleton and their functional importance.
UNIT III: Muscles of long bones of Human limbs	1) To study long limbs muscles involved in body movements.	1) Learners will be able to understand the types of long limb muscles and their role in body movements.
	2) To identify various arrangements of long limb muscles and to relate it with the contraction and motion.	2) Learners will be in a position to identify various arrangements of the long limb muscles along with contraction and motion.

UNIT IV:	1) To introduce the basic concept of	1) Learners will be able to
Developmental	developmental biology with reference	understand the processes
biology of	to chick as a model.	involved in embryonic
Chick		development.
	2) To make them understand about the	2) Learners will also study
	processes involved in embryonic	practical applications of chick
	development and practical application	embryology and its
	of studying chick embryology.	development stages.

SEM-V ZOOLOGY (APPLIED COMPONENMT- FISHERY BIOLOGY).

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Oceanography	1) To enable learners learn about oceanographic, navigational and sea safety instrument.	1) Learnessr shall understand and learn about the use of sea safety, navigational equipments and oceanographic instruments.
	2) To teach them about basic physical, chemical and biological parameters of oceans.	2) Learners shall understand basic physical, chemical and biological oceanography.
UNIT II: Crafts and gear	1) To acquaint learners about techniques of boat building and engine designing.	1) Learners shall comprehend boat building techniques and design of engines used in mechanized boats.
	2) To make them understand about various types of nets and fishing method.	2) Learners shall understand the operations of various types of nets and fishing method.
UNIT III: Farming of major carps	1) To develop skills of breeding techniques, hatchery management and management of major carps.	1) Learners will comprehend hatchery and nursery management of major carps.
	2) To study and explore various techniques used in fishery poly culture.	2) Learners will understand breeding techniques and skills for culture of major carps.
UNIT IV: Introduction to other commercial aquaculture	1) To develop skills and understanding of breeding and rearing of sewage-fed fishery, Basa cat fish and tilapia by novel ways.	1) Learners will gain knowledge about how to breed and rear ornamental fishes and commercially viable fish species.
practices in fresh water	2) To teach learners about various entrepreneurial operations to make them able to work in fishery units.	2) Learners will be equipped to carry out entrepreneurial operations or gain confidence to work in freshwater prawn unit.
UNIT V: Culture of shell fishes and fin- fish	1) To study rearing practices of fin-fish and shell fishes.	1) Learners shall understand breeding techniques, hatchery and management of finfish and shell fishes.

	2) To study culture of brackish water shrimp.	2) Learners shall understand the rearing techniques.
UNIT VI: Quality control and packaging	1) To comprehend various aspects of quality control.	1) Learners will be oriented towards understanding the various stages of quality control.
	2) To acquaint learners about various packaging processes involved in fish processing and marketing.	2) Learners shall comprehend the value of maintaining and taking sanitary precautions during the processing and packaging operations.
UNIT VII: Quality control and packaging	1) To acquaint learners with the fundamentals of marketing and finance.	1) Learners shall acquire knowledge about traditional marketing practices and role of co-operatives in selling fish.
	2) To instill in them the knowledge of various aspects of entrepreneurship in fishery related enterprises.	2) Learners shall be exposed to the avenues and procedure for raising funds for fishery related entrepreneurial practices.
UNIT VIII: Case Study and Simulation	1) To inculcate entrepreneurial abilities and skills so as to make learners confident and prepare them to raise new projects in the realm of fishery biology.	1) Learners will gain technical and financial knowledge in fishery biology business ventures.
	2) To assess varying dimensions while taking decisions in fishery biology.	2) Learners will develop better acumen so as to take wise and necessary decisions while participating in fishery biology related projects.

SEM-VI ZOOLOGY-I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To introduce basic concept of	1) Learners will get glimpse of
Phylum	modern chordate classification with	origin of Chordates, its
Chordata:	evolution point of view.	taxonomy with reference to
Group		phylogeny and their special
Protochordata		features.
and Group	2) To make them understand the	2) Learners would be in a
Euchordata I	concept of taxonomy in higher animal	position to understand the
	kingdom.	concept of taxonomy in higher
		animal kingdom.
Unit II: Group	1) To teach learners about the characters	1) Learners will be studying the
Euchordata II	of Euchordata division.	position of mouth and
		development of habitats.

	2) To give them knowledge about habit, habitat, external and internal characters of lung fish.	2) Learners would also know as to how historical lung-fishes survived on land with respiratory organs.
UNIT III:	1) To introduce the learners to the	1) Learners will understand the
Group	distinguishing characters of class	characteristic features and
Euchordata III	reptilian, aves and mammalia	examples of each class of
		Reptilia, Aves as well as
		Mammalia.
	2) To teach them about their adaptive	2) This will help learners to
	features with reference to their habitat.	study distinguishing characters
		of classes Reptilia, Aves and
		Mammalia and their adaptive
		features with reference to their
		habitats.
UNIT IV: Type	1) To study in depth one vertebrate	1) Learners will get an idea of
Study: Shark	animal type	vertebrate animal life (one
		representative animal which is
		shark).
	2) To study the general characteristics	2) Learners would be getting
	and salient features of shark.	chance to study salient features
		and general characters of shark.

SEM-VI ZOOLOGY-II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To introduce learners to the	1) The learners shall
Enzymology	fundamental concept of enzyme	understand fundamentals of
	biochemistry.	enzyme structure, action and
		kinetics.
	2) To enable learners realize the	2) The learners shall appreciate
	applications of enzymes in basic and	the enzyme assay procedures
	applied sciences.	and the therapeutic
		applications of enzymes.
UNIT II:	1) To introduce to the learners the concept	1) The learners shall be
Homeostasis	of homeostasis and stable internal	studying concept of
	environment.	homeostasis-thermoregulation
		and osmoregulation.
	2) To teach them the significance of	2) The learners shall
	thermoregulation and osmoregulation.	comprehend the adaptive
		responses of animals to
		environmental changes for
		their survival strategies.
UNIT III:	1) To introduce to the learners the details	1) The learners shall
Endocrinology	of endocrine glands.	understand the types and
		secretions of endocrine glands
		and their respective functions.
	2) To teach them about the various	2) The learners will realize the

	disorders associated with faulty	significant role of endocrine
	functioning of endocrine glands.	glands and its disorders in
		human body.
UNIT IV:	1) To introduce to the learners the	1) The learners would be
Animal tissue	fundamental concept of tissue culture.	studying the importance of
culture		tissue culture in specialized
		areas of research.
	2) To guide them progressively through	2) The learners would be in
	certain areas of animal tissue culture.	position to appreciate
		applications of tissue culture in
		various industries.

SEM-VI ZOOLOGY-III

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To introduce learners to chemical and	1) Learners shall get an insight
Molecular	molecular processes that affect genetic	into detailed manner of
Biology	material.	chemical and molecular
		processes which affects genetic
		material.
	2) To make learners understand the	2) The learners would study in-
	concept of DNA damage and repair and	depth about significance of
	how gene control is necessary for cell	molecular biology as a basis
	survival.	for the study of other areas of
		biology and biochemistry.
UNIT II:	1) To introduce learners set of	1) The learners will get
Genetic	techniques related to genetic	acquainted with the vast
Engineering	engineering.	options of techniques used to
		manipulate genes.
	2) To acquaint them to procedures	2) The Learners will study
	required to modify an organism's	techniques to modify an
	genome for producing novel genes.	organism's genome to
		manufacture improved or
		novel genes and organisms.
UNIT III:	1) To introduce learners to genetic	1) The learners should
Human genetics	manipulations significant in the study of	understand genetic alterations
	human genetics.	in human genome and their
		diagnosis.
	2) To make them aware about the	2) The leaners would become
	impact of changes taking place at gene	aware of the effects of changes
	level on human health.	occurring at genetic level on
		human health and its diagnosis.
UNIT IV:	1) To introduce learners to the	1) The learner will be
Bioinformatics	magnificent tool of bioinformatics.	introduced to Bioinformatics
		which is a latest and ongoing

	research topic in today's world.
2) To teach them about the computational approach to learn more about structure, organization and phylogeny of organism.	2) The learner will become aware of the computational tools, different websites, sequencing methods and predictive applications.

SEM-VI ZOOLOGY-IV

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Environmental Management	1) To introduce the learners to the concept of environmental management through detailed analysis of various causative agents of environmental degradation.	1) Learners will be able to understand different factors affecting our environment. In addition, they will learn various methods to improve environmental stewardship.
	2) To learn the impact of factors and overviewing the environment management laws.	2) The learners will understand the different factors affecting environment, it's impact and environment management laws.
UNIT II: Wildlife Management	1) To sensitize learners regarding various threats to wildlife.	1) Learners will be studying various methods of wildlife conservation.
	2) To introduce learners various ways that can help in the protection, conservation, management and enhancement of wildlife populations.	2) Learners would be able to apply knowledge to overcome the issues related to wildlife conservation and their management.
UNIT III: Bio- prospecting and Zoo- pharmacognosy	1) To introduce learners to the concept of bioprospecting and zoopharmacognosy leading to the discovery and commercialization of new products.	1) Learners will be able to understand the paradigms of discovery and commercial utilization of biological resources and knowledge gained from self-medication observed in animals.
	2) To learns about various ways of self-medication in animals, throwing light on the significance of naturally available biological resources.	2) Learners will be studying various ethological aspects by which non-human animals apparently self-medicate themselves.

UNIT IV:	1) To introduce the learner about the	1) Learners will be acquainted
Zoogeography	geographic distribution of animal	with many aspects of different
	species.	animal species which are
		scattered around the globe.
	2) To teach learners various theories	2) Learner will study
	about animal distribution, barriers,	geographic distribution with
	dispersal patterns and zoogeographical	respect to present and past of
	realms	animal species around the
		globe.

SEM-VI ZOOLOGY(APPLIED COMPONENET- FISHERY BIOLOGY)

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Marine Fin-fish of India	1) To study coastal and deep sea fishes.	1) Learner shall understand deep sea and coastal fishes.
	2) To study commercial potential and major landing centers.	2) Learner shall understand commercial potential and know about the major landing centres of the fishes.
UNIT II: Marine Shell of India	1) To develop an in-depth understanding of crustaceans and molluscan fisheries.	1) Learner shall understand crustacean and molluscan fisheries.
	2) To study about performances of landing centers of various fisheries.	2) Learner shall understand the performance of landing centres of above fisheries.
UNIT III: Nutrition	1) To study and discover the growing market for fish nutrition.	1) Learner will get acquainted with basics of nutritional requirements at various developmental stages of crustaceans.
	2) To acquaint learners with different nutritional requirements of fishes at different stages.	2) Learner will study basics of nutritional requirements at different developmental stages of fishes.
UNIT IV: Diseases	1) To acquire knowledge of the various aspects of diseases affecting fishes.	1) Learners will get a chance to acquire knowledge of the various aspects of fish diseases.
	2) To give them an insight into the preventive measures and prophylaxis of fish related disorders.	2) Learners would be getting sound understanding of causes, pathogenicity, prophylaxis and preventive measures of various fish diseases and their physiological disorders.

UBIT V: Preservation and Processing	1) To derive knowledge about various fish preservation and processing methods.	1) Learners will acquire the knowledge and would put in to practice the preservation and processing techniques for commercial ventures
	2) To teach learners about various preservation and processing techniques for commercial centers.	2) Learners will derive knowledge about various fish preservation and various processing methods.
UNIT VI: By- products and Value Added Products	1) To acquire knowledge about fish by-products, value added products.	1) Learner will gain sound knowledge about the fish by-products and value-added products.
	2) To teach them about various good manufacturing practices.	2) Learner will explore good manufacturing practices while manufacturing these products
UNIT VII: Farm engineering	1) To acquire knowledge about farm engineering and novel fish culture practices.	1) Learner will understand the selection process of hatchery sites and various types of designs and construction of aquaculture farm practices.
	2) To teach learners about selection process of hatchery sites and various types of design of aquaculture farm.	2) Learners will comprehend the uses of equipment and accessories involved in aquaculture farms
UNIT VIII: Open unit	1) To teach any one of the units prescribed in the syllabus with more details and in depth knowledge leading to specialization in the capsule of units selected.	1) Learner to give scope to creativity and wisdom of a teacher who wants to deal with the latest developments in the subject without waiting for the university to revise the syllabus.
	2 To incorporate the topics of special need of the area which are otherwise not covered in the syllabus.	2) Learners to incorporate the topics of special need of the area which are otherwise not covered in the syllabus.