

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

## **PROGRAMME OUTCOME**

Sr.No	Programme Outcome
<b>PO1</b>	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.
<b>PO6</b>	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.
COLI	SE OUTCOMES.

### **COURSE OUTCOMES:**

### **B.A. ECONOMICS**

SEM: I

### MICRO ECONOMICS-I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
01	To introduce the concepts, scope,	Students understand the concepts, tools
	nature and limitations of Micro	of Micro Economics and also the role of
	Economics and basic economic	price mechanism in the market
	problems.	economy.
02	To teach them Ten Principles of	Students understand the significance of
	Economics.	opportunity in decision making, role of
		government in improving market.
03	To teach students the concept of	Students understand different types of
	market, demand, supply.	market based on competition, market
		demand and market supply and the
		determination of equilibrium and



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		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.
SEM: IV		MACDO ECONOMICS II

#### SEM: IV

MACRO ECONOMICS-II

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the concept of money supply and quantity theory of money.	Students understand the concept of money supply, determinants and constituents of money supply.
02	To teach students the motives for holding money and money market equilibrium.	Students learn the various motives for holding money and how money market attains equilibrium.
03	To teach students the concept of saving functions and investment demand, goods market equilibrium.	Students learn the concepts of MEC and investment function and the determination of goods market equilibrium.
04	To teach students the simultaneous equilibrium in the goods and money market and the effect of monetary policy and fiscal policy on equilibrium.	Students understand the significance and effectiveness of monetary and fiscal policy on simultaneous equilibrium in the goods and money 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 with reference to availability, overview of irrigation development, rural-urban water supply and recommendation for balanced development.	Students learn the issues, availability, government policy and recommendation for water distribution in the state of Maharashtra.
04	To teach students the health and connectivity, issues and government measures.	Students understand the health care system, regional disparities, general 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	Students learn the concept of HDI,
	economic growth and development.	GDI, green GDP and sustainable development.
02	To teach students the structural	Students learn various classical and
	issues in development process	neo-classical development theories and
	with development theories and	the role of education, health and
	growth model	nutrition in economic development.
03	To teach students the concept and	Students learn concepts and the
	theories of inequality, poverty and	theories of inequality, poverty and
	development.	inclusive growth and the importance of
		SHGs, microfinance.
04	To teach the role of technology	Students understand the importance,
	and infrastructure in economic	types, issues of technology and
	development and the type of	infrastructure in economic
	technical progress.	development.



### 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 		
02	To teach students the concept of capital asset, pricing model in investment and pricing formula.Students learn about capital ass pricing model, asset portfolio, s market line.		
03	To teach students the concept, functions and types of derivative, forward and futures and options.	ncept, Students understand the concept and types of derivatives, options and	
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 <sup>th</sup> century.	Students learn about the monetary system since 19 <sup>th</sup> 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: V



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
<b>PS0 1</b>	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 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 the genres of literature by interpreting 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	To extract moral teachings and	The learners deploy learnt lessons into
Short Stories/	values from short stories/poems. their practical lives drawn from st	
poems	This does enable students and poems which sensitize then	
	student's to understand that	towards humans, animals and nature.
	literature is an expression of	
	human values within historical and	
	social context.	

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 novels and dramas.	distinction between the said registers 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	
<b>Critical Essays</b>	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	es 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	OBJECTIVES	OUTCOME
US (UNIT		
WISE)		
UNIT-1	To make the	After the completion of this unit, the student must be able to
	student aware of	know what were the causes and consequences of the revolt of
	the events	1857
	between revolt of	Student must be able to understand the founding and working
	1857 and the	of various Provincial Associations
	foundation of	Student must be able to understand the founding and working
	Indian National	of the Indian National Congress in its initial stages
	Congress	
UNIT-2	To make student	After the completion of this unit, the student must be able to
	aware regarding	know the leaders of the moderate politics, its role, objectives
	moderates and	and work in the growth of Indian National Movement
	extremist politics	Student must be able to know the leaders of the Extremist
	and the growth of	politics, its role, objectives and work in the growth of Indian
	revolutionary	National Movement
	nationalism	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
		of india



#### SEM-II

### HISTORY OF MODERN INDIA : SOCIETY & ECONOMY

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

#### SEM-III

### LANDMARKS IN WORLD HISTORY/ II

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
UNIT -1	To make students aware of	After the completion of this unit, student must be able to understand the contribution and spread of
	Renaissance,	renaissance movement to different parts of Europe
	Geographical	Students must be able to understand geographical
	Discoveries and	discoveries by eminent voyagers
	reformation	Students must be able to understand the reformation
		process, role of Martin Luther and protestants
		vscatholicism
UNIT - 2	To make students	After the completion of this unit, student must be
	aware of different	able to understand the causes, course and
	revolutions	consequences of American revolution, French
		revolution and Industrial revolution in europe
UNIT - 3	To make students	After the completion of this unit, student must be
	aware of nationalism	able to understand the formation of nation - states in
	and imperialism in	Europe
	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



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		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

SEM-III

ANCIENT INDIA /III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT-1	To acquaint the students with different sources of ancient Indian History	After the completion of this unit, student must be able to understand Archaeological, literary and Foreign Travellers sources
UNIT-2	To enable the students to understand Indus valley civilization and it's evidences	After the completion of this unit, student must be able to understand socio - eco - religious life Students must be able to understand town planning and decline of the civilization
UNIT-3	To enable the students to understand the Vedic Age	After the completion of this unit, student must be able to understand the concept of janapada, social economic and religious life of the Vedic age
UNIT-4	To make students aware of the developments in india after 6th Century B.C.	After the completion of this unit, student must be able to understand the administrative structure of Mahajanapadas Students must be able to understand Rise and decline of Jainism and Buddhism Students must be able to understand foreign invasions
SEM-IV		LANDMARKS IN WORLD HISTORY/ II
SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT_1	To make students aware of events that took place in inte war period	After the completion of this unit, student must be able to understand the Modernization of Turkey through Kemal pasha Students must be able to understand reforms in Iran under Reza shah and formation of Israel as a nation
UNIT_2	To make students aware of the powerful personalities who ruled a s a dictator	After the completion of this unit, student must be able to understand the role of Mussolini in creating a fascist state in Italy 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 aware of the development that led to disastrous consequences for Europe in particular	After the completion of this unit, student must be able to understand the causes, spread and the consequences of the World War II Student must be able to understand the Atlantic charter and formation of U.N.O.for world peace



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UNIT_4	To make students aware of the circumstances that led to the rise of antionalist	After the completion of this unit, student must be able to understand the nationalist movements in China, India and Indonesia.
	movements in Asia	

SEM-IV

ANCIENT INDIA /III

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

HISTORY OF MEDIEVAL INDIA (1000 CE- 1526 CE) / IV

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



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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 able to understand social and economic reformers understand the socioeconomic awakening during 19<sup>th</sup> and 20<sup>th</sup> 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<sup>th</sup> and 20<sup>th</sup> 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 (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT-1	To make students	After the completion of this unit, student must be
0111-1	aware about aims and methods of Archaeology	able to understand the basic facets of Archaeology
UNIT-2	To make students aware about Pre, Proto and Early Historical periods	After the completion of this unit, student must be able to understand Palaeolithic, Mesolithic, Neolithic, Chalcolithic, Megalithic and early historical periods
UNIT-3	To make students aware of study of inscriptions during the study period	After the completion of this unit, student must be able to understand history, types ,evolution and importance of epigraphy
UNIT-4	To make students aware of study of coins during the study period	After the completion of this unit, student must be able to understand history, types ,evolution and importance of Numismatics
SEM-VI	HISTOR	Y OF MEDIEVAL INDIA (1526 – 1707 A.D) / IV

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 beginning, expansion and decline
	political events	of the Mughal rule
	during the	
	Mughal period	



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UNIT-2	To make students	After the completion of this unit, student must be
	aware of the	able to understand central and provincial
	Administration of	Government
	the Mughals	Students must be able to understand the Mansabdari
		system and Revenue system during mughal
UNIT-3	To acquaint	After the completion of this unit, student must be
	students to study	able to understand role of shivaji in foundation of
	the rise of the	Swaraj
	Maratha Power	Students must be able to understand role of
		Sambhaji, Rajaram and Tarabai
UNIT-4	To make students	After the completion of this unit, student must be
	aware of the	able to understand socio- economic, Cultural
	progress and	, religious and Educational life during the Mughal
	growth in various	period
	spheres of life	
	during study	
	period	
SEM-VI	HISTORY OF	CONTEMPORARY INDIA (1947 – 2000 A.D.) / V

**SYLLABUS OBJECTIVES** OUTCOME (UNIT WISE) UNIT-1 To acquaint students After the completion of this unit, student must be able to understand the process of making the with the developments during Nehru era constitution and the integration of states (1947 - 1964 CE) UNIT-2 To make students After the completion of this unit, student must be understand political, able to understand developments under congress and social and economic janta party regime developments (1964-1984 CE) UNIT-3 To make students After the completion of this unit, student must be able to understand political developments, LPG and understand political, India's relation with neighbouring countries social and economic developments (1984 - 2000 CE) UNIT-4 To make students After the completion of this unit, student must be understand the able to understand communalism, separatist emerging trends in movements, reservation, women empowerment and contemporary India 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 l

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 legislature To make Learners aware about the Judicial system and Judicial Activism in India	Learners get to know about the legislature structure and process. They understand the working of single integrated judicial system of India
Module IV	To explain the role and functions of union executive To provide explanation about the local self government	Learners gain a knowledge about the role and functions of union executive They come to know about the importance of local self government and 73 <sup>rd</sup> and 74 <sup>th</sup> amendments
Module V	To teach Indian Federal System. To acquaint with Centre State Relations To discuss the Changing Dynamics of Centre-state Relations.	The learner relates the federal aspects with working of Centre State Relations Discuss and debate the Changing Dynamics of Centre-state 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	
	ideologies	
Module VII	To examine the Social Dynamics	Realize the need to solve the social
	of Caste, Religion and Gender	dynamics
	politics	
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 II

Paper Ill

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 ll	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 Ill	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**

**SYLLABUS** 

(UNIT WISE)

Module 1

**OBJECTIVES** OUTCOME To introduce the meaning, scope Learnersunderstand the meaning, and significance of Public scope and importance of Public

Administration	Administration
To explain the evolution of Public	Learner developed an understanding
Administration as a discipline	about the various evolutionary



		paradigms of Administration
Module ll	<ul> <li>To make Learners aware about the various theories of Administration like:</li> <li>Scientific Management theory of F. W. Taylor</li> <li>Bureaucratic Theory of Max weber</li> <li>Human Relation theory of Elton Mayo</li> </ul>	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	<ul> <li>To teach about the contemporary</li> <li>Techniques of Administration like:</li> <li>Good Governance</li> <li>E-Governance</li> <li>Public Private Partnership</li> </ul>	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	<ul> <li>To teach about the concepts</li> <li>Integrity oin Administration</li> <li>LokPal and Lokayukta</li> <li>Citizens Charter</li> </ul>	<ul> <li>The Learner understands the concepts of</li> <li>Integrity oin Administration</li> <li>LokPal and Lokayukta</li> <li>Citizens Charter</li> </ul>

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

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 Ill	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	
	_	-
	-	-
	MAharashtra	Maharashtra
Module VIII	To make Learner familiar about Alternate Models of Development To examine the Environmental policies in Maharashtra Review the RTI Act in MAharashtra	The learner studies the alternate models of Development in Maharashtra Also is familiarised by the Environmental policies in



## **ROGRAMME SPECIFIC OUTCOME**

### **DEPATMENT OF ISLAMIC STUDIES**

CD NO			
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

OBJECTIVES	OUTCOME
To teach social, political and religious conditions of pre- Islamic Arabia To discuss the lineage, birth, childhood and youth of Prophet Muhammad (SAW) To discuss the life of Prophet Muhammad at Makkah, his marriage, attainment of Prophethood, message of Islam	The students will get the knowledge of social, political and religious conditions of pre-Islamic Arabia Students will get the knowledge of lineage, birth, childhood and youth of Prophet Muhammad (SAW) The students will learn about the life of Prophet Muhammad at Makkah, his marriage, attainment of Prophethood, message of Islam and
	its propagation.
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.
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.
	religious conditions of pre- Islamic Arabia To discuss the lineage, birth, childhood and youth of Prophet Muhammad (SAW) To discuss the life of Prophet Muhammad at Makkah, his marriage, attainment of Prophethood, message of Islam and its propagation. 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. To discuss persecution and social boycott of Muslims in Makkah, migration to Abyssinia and Madinah, Miraj, year of sorrow Basic Arabic grammar and

### SEM-II

ISLAM AND ITS BASIC TENETS-I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
MODULE I	To teach meaning of Islam and essential elements of Faith	The students will get the knowledge of meaning of Islam and essential elements of Faith
MODULE-II	To discuss the significance and importance of five pillar of	The students will learn the significance and importance of five



	Islam.	pillar of Islam
Module III	To study the importance of piety in Islam and Quran's emphasis on piety To teach the status of women and their rights, institution of marriage and divorce in Islam, laws of inheritance	The students will be enable to understand the importance of piety in Islam and Quran's emphasis on piety They will also get the knowledge of the status of women and their rights, institution of marriage and divorce in Islam, laws of inheritance
Module-IV	To discuss the rights of parents, relative, neighbors, subordinate, widow and orphans, destitute and wayfarer in Islam.	Students will learn about the rights of parents, relative, neighbors, subordinate, widow and orphans, destitute and wayfarer in Islam

# 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	The successful completion of this module will enable the students to
	efforts to make a Muslim	understand the prophet's efforts to
MODULE-II	community in Madinah 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	make a Muslim community 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 (UNIT WISE)	OBJECTIVES	OUTCOME
MODULE I	To study the meaning, revelation, collection, compilation, arrangement of Holy Quran and its contribution to provide the guidelines about the natural science	The students will get the knowledge about the Quran.
MODULE-II	To study the Quran as preserver of Arabic Language and its influence on Arabic literature. Also discuss the origin and development of Tafsir and important Arab Tafsir writers	Quran as a preserver of Arabic language and its influence on Arabic literature.



Module III		Understanding the contribution of Indian Scholars to Tafsir Writers
Module-IV	To discuss the importance of Education in Islam and Islamic Concept of Justice. Basic Arabic grammar and	The students will get an idea of educational system of Islam and Islamic concept of justice. 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 (UNIT WISE)	OBJECTIVES	OUTCOME
MODULE I	To teach the causes and strategies of conquest of Makkah, battle of Mutah and Hunain.	The students will get the knowledge about the causes and strategies of conquest of Makkah, battle of Mutah and Hunain.
MODULE-II	To discuss about the first Islamic pilgrimage, year of deputation and Tabuk expedition	
Module III	To study significance and importance of farewell pilgrimage of prophet Muhammad (SAW) To discuss the last days of Prophet Muhammad(SAW)	importance of farewell pilgrimage of Prophet Muhammad (SAW) Learners will be aware about the last
Module-IV	To discuss the personality of Prophet Muhammad (SAW) as a reformer, law giver, founder of Islamic state and his achievements. Basic Arabic grammar and Islamic terminology	personality of Prophet Muhammad (SAW) as a reformer, law giver, founder of Islamic state and his achievements.
SEM IV		AW & CULTUDAL ASDECT OF

SEM-IV

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

-	
OBJECTIVES	OUTCOME
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.
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.
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.
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.
	Tostudythemeaning,collection,compilation,Codification and classification ofHadith.Todiscuss about the book al-Muwattahand sixauthenticbooks of hadith.To teach origin and developmentof Islamic Law and its sources.ToexplainImportanceandfeaturesofFourschoolofIslamic jurisprudence.ToTodiscusstheimportanceofUnity, Equality and Fraternity inIslam. Cultural aspect of IslamToexplainBasicArabicgrammarandIslamic



## **PROGRAMME SPECIFIC OUTCOME**

### **DEPARTMENT OF URDU**

PROGRAM	SPECIFIC OUTCOME
UG Programme T.Y.B.A. IN URDU	<ul> <li>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.</li> <li>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:</li> <li>Professional Writing</li> <li>Research</li> <li>Editing</li> <li>Journalism</li> <li>Media</li> <li>School Teachers etc.</li> </ul>

### PROGRAMME SPECIFIC OUTCOME

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

PROGRAM	SPECIFIC OUTCOME
UG Programme F.Y.B.A. & S.Y.B.A IN URDU	<ul> <li>The students of first year and second year B.A. Urdu will be able gain the knowledge of :</li> <li>Idioms of Language and art of Essay writing including the life and works of Prose &amp; Poetry writers. They also know about the different Genres of Urdu Language and Literature.</li> <li>The Language, Grammar and very importantly <i>Mabadiyat-e-Arooz</i> and <i>Usool-e-Taqtee</i>.</li> <li>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.</li> <li>The very famous literary genres i.e. Urdu Ghazal, alongwith its History and Development.</li> <li>The Urdu Travelogue, its beginning and gradual development and about the famous writer MujtabaHussain.</li> <li>The History and Gradual development of Urdu Nazm, selected Nazms of AkhtarulIman and KhalilurRehmanAzmi.</li> </ul>

### **COURSE OUTCOMES**: F.Y.B.A. & S.Y.B.A IN URDU

Course Outcomes		
Courses	Outcomes	
F.Y.B.A. IN URDU	The Students by studying Urdu at first year of undergraduate level will gain	
Semester- I Semester – II	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 S.Y.B.A **IN URDU** Semester- III Semester - IV

### T.Y.B.A. IN URDU

Course Outcomes		
Courses	Outcomes	
<b>T.Y.B.A. IN</b> <b>URDU</b> 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 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
	After completing three years for Bachelor in Commerce (B.COM) program, students will
1.	gain knowledge and understanding of the fundamental concepts of Commerce,
	Accountancy and Finance.
	The commerce curriculum offers a number of specialization and practical exposure
2.	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	
5	as well as competitive exams.
The students are equipped with communication and professional soft skills to he	
4	relate and adjust in business atmosphere.
5	Student insight about business ethics and values will sensitize them towards social
3	responsibility and commitment.



# **COURSE OUTCOME:**

### PAPER NAME/NUMBER: I (COMMERCE)

SEM: I

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
	To provide information about	Students will analyse the concept of
01	concept and objective of business.	business and the impact of LPG on an
01	To know about new trends in	economy.
	business.	
	To teach about constituents and	Students will able to evaluate the business
02	international business environment.	environment and their impact on Indian
		business.
	To understand the project planning,	Students will develop the ability of
03	business unit promotion and	analysing the project plans and
03	statutory requirements in promoting	accordingly gain from the opportunities
	business unit.	available in the market.
	To provide information about	Students learn and inculcate
04	concept and different types of	entrepreneurial skill.
	entrepreneur.	

### PAPER NAME/NUMBER: II (COMMERCE)

SEM: II

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To provide information about concept and marketing mix for services.	Students will be able to provide theoretical basis for assessing service sector.
02	To teach about concept, retail format and retail scenario of retailing.	Students will be able define the different format of retailing. They will be able to analyse current retail scenario at international level.
03	To provide information about ITES, banking and insurance sectors and importance of logistics.	Students will be able to identify critical issues in ITES and banking insurance sectors.
04	To provide information about E- Commerce.	Students will be able to develop basic ideas of E-commerce and its challenges through marketing research.

### PAPER NAME/NUMBER: III (COMMERCE)

SEM: III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To provide information about evolution of management thought and modern management approach.	Students will understand the concept of management and develop the use of ethos in the organisation.
02	To teach about planning and decision making.	Students will develop the ability to take correct and timely decision.
03	To provide information about organising, depart mentation and delegation of authority.	Students will be understand the steps and structure of organising. They will also understand the main focus of departmentation is to keep the right person in the right place.
04	To teach about directing, motivation, leadership and controlling.	Students will be able to encourage and develop situational leadership style. They also knowledge about different technique of controlling.



### PAPER NAME/NUMBER: IV (COMMERCE)

SEM: IV

SEM: V

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
	To provide information about	Students will be able to understand the
01	production and inventory	concept of productivity and scope of
	management.	production management.
	To teach about quality management	Students will be able define the different
02	and service quality management.	dimension of quality. They will also able
02		to analyse service quality management
		with the help SERVQUAL Model.
	To provide information about Indian	Students would be able to Understand
03	financial market, SEBI and credit	the Indian Financial System and its
05	rating agencies.	functioning. They will also understand the
		role of different credit rating agencies.
	To provide information about	Students will be able to understand the
	mutual fund, commodity and	real estate market without having to invest
04	derivative market and start-up	directly in physical property with the
	venture.	mutual fund and also know the
		importance of start-up venture.

### PAPER NAME/NUMBER: V (COMMERCE)

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To provide information about marketing, strategic marketing management and recent trend in marketing.	Students will understand the concept of marketing and implement in real life industry. Apply the knowledge and understand the challenges and issues of marketing in a growing global context.
02	To teach about MIS, consumer behaviour and market segmentation.	Students will be able to analyse the business need for customer orientation and market opportunities.
03	To understand the elements of product and pricing decisions	Students will be able to evaluate and integrate product pricing decision.
04	To provide information about the components of distribution and elements of promotion.	Students will be able to identify the recent trends in distribution and logistics. They will develop the ability to create and design best promotion strategy.

### PAPER NAME/NUMBER: VI (COMMERCE)

SEM: VI

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To provide information about the functions of HRM.	Students will contribute to the evaluation process of recruitment and selection process.
02	To introduce about the HRD and its elements.	Students will be able to evaluate the technique of performance appraisal and will be able to develop themselves in the dynamic environment.
03	To understand the theories of motivation and leadership and the employees welfare measures and to understand the factors affecting EQ and SQ.	Students will be able encourage and develop situational leadership style. They will be able to understand their behaviour through EQ and SQ.



04	To study the recent trends and challenges of HRM.	Students will be able to identify the recent trends and challenges in HRM and will
0.1		develop the competencies require in the
		changing environment.

## **PROGRAMME SPECIFIC OUTCOME**

BACHELOR OF BANKING & INSURANCE and Management

1	Learners will be able to demonstrate progressive learning of various company formation formalities issues and accounting.
2	Learners will learn relevant financial & managerial accounting career skills applying both quantitative and qualitative knowledge to their future careers in business.
3	Learners will acquire the skills like effective communication, decision making, problem solving in day to day business affairs, especially leadership qualities.
4	Learners will be able to do higher education and advance research in the field of banking and non-banking, sectors.
5	Learners will gain systematic and subject skills within various disciplines of commerce, financial accounting, economics, finance, logistic ,marketing, entrepreneurial skills etc.
6	Learners will be able to understand the challenges faced by manager in the dynamic environment.
7	Learners will involve in various co- curricular activities to demonstrate relevancy of foundational and theoretical knowledge of their academic major and to gain practical exposure.
8	Learners will be able to prove their proficiency by engaging themselves in preparation of competitive exams and PG Courses like M.Com, MBA.
9	Leaners will be able to obtain the knowledge and skills needed to assume management positions in a wide range of organizations.
10	To provide students with a solid foundation in organisational behaviuor and human resource management.

## **COURSE OUTCOME:**

PAPER NAME/NUMBER: PRINCIPLE OPF MANAGEMENT

SEM: I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the concepts of traditional and Contemporary Management.	Learners will be able to apply the concepts of management in Banking and Financial Sector.
02	To understand the concepts of Planning.	Learners will be able to practice the process of management like Planning, Organising, Directing, Controlling etc. in the Banking Sector.
03	To teach Learners the concept of Organising and Departmentation.	Learners will be able to design and develop organizational chart and structure for an Enterprise.
04	To introduce the techniques of Centralisation and Decentralisation.	Learners will be able to learn the techniques of Decision making process.
05	To get encouraged by studying the achievements of famous Indian and International Business leaders.	Learners will be able to evaluate and influence the forces on the current practices of management.



### PAPER NAME/NUMBER: Foundation course

SEM: II

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To provide the information about the globalization process in India economy. To aware the students about the role of LPG in the development of Indian society.	Students obtain the information about the globalization process in India. Students understands the impact of Globalisation on Indian society.
02	To provide the information about the Human rights to the students. To aware the students about the fundamental rights of the constitution.	Students came to know the UDHR. They are equipped with the information about their fundamental rights.
03	To provide the the information about the environmental degradation. To make students aware about the various causes of environmental degradation.	Students gets the information about the environmental problems. They become familiar about the concept of sustainable development and steps to reduce degradation.
04	To understand the students about the cause and effects of stress. To make them aware about the various steps to cope with stress.	Students understand the causes and effects of stress. They are aware about the ways to cope up with stress.
05	To explain the students about the causes of conflict and aggression and ways to get over it.	Students understand the effects of aggression and violence.

PAPER NAME/NUMBER: Principle of management

SEM: II

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
	To make student understand about the	Students gets the information about
	nature of management.	the nature and meaning of
01	To make them aware about the various	management.
	theories of management.	Students understands the various
		theories of management.
	To aware the students about the	Students gets the information about
02	process of planning of and decision	the process of planning and decision
	making.	making.
	To provide the information about the	Pupils gets the information about the
	organising and departmentation.	organizing and departmentation.
03	To provide the information about	Students gets awareness about the
	differences between centralization and	centralization and decentralization.
	decentralization.	
	To understand the students about the	Students obtain the information about
04	directing, Leadership, co ordinating	the directing, Leadership, co
	and controlling.	ordinating and controlling.

# NAME OF THE COURSE /SUBJECT/PAPER –SYBMS / Economics II PAPER NAME/NUMBER: II

SEM: IV

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
	To make the students understand about	Students gets the knowledge about the
	the Macroeconomic.	concepts of macroeconomics.
01	To make then understand about the	They understand the measurement of
01	measurement of national income.	national income.
	To make them aware about the Keynes	They understand the various Keynes
	theory of effective demand.	theories.
02	To make the students understand about	Students understand the demand and
02	the demand and supply of money.	supply of money.



	To make them aware about the monetary policy and inflation.	They get the information about the monetary policy.
03	To provide the students about the To provide the students about the government fiscal policy Make them aware about the budget and deficit.	Students came to know about the government fiscal policy. Students understands about the budget and deficit.
04	To help students about the theories and issues of international trade. To make them aware about the balance of payments system.	Students understand about the various issues of international trade. Students understands about the balance of payment account.

### NAME OF THE COURSE /SUBJECT/PAPER - SYBMS / Strategic Management

### PAPER NAME/NUMBER: III

### SEM: III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To provide students with the knowledge of various prospective and concepts in the field of strategic management.	Students learn about the various concepts of strategic management.
02	To help students masters the analytical tool of strategic management.	Students gain knowledge about the various analytical tools.
03	To learn about the procedures of implementation of policies with the help of various theories.	Students gain the knowledge about the various policies and theories.
04	To learn about the method of evaluation and techniques to control strategies	Students learn about the various techniques of management.

NAME OF THE COURSE /SUBJECT/PAPER – FYBBI/principles and practice of banking and Insurance

### PAPER NAME/NUMBER: IV

### SEM: IV

SEM: IV

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To learn the detail about banking structure in India.	Students understand about the banking structure in Indian.
02	To learn about the various regulatory authorities related to banking and insurance.	Students learn about the regulatory authorities of insurance systems.
03	To learn about the insurance system in detail	Students understand the working of insurance market.
04	To learn about the working procedure of Insurance.	Student understand about the procedure about the insurance system.

NAME OF THE COURSE /SUBJECT/PAPER – SYBBI/Customer relationship management

### PAPER NAME/NUMBER: III,

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To learn about the evolution of CRM	Students understand about the
01	and its needs.	evolution and needs of CRM.
	Learn about procedure of CRM and	Students learn about the data
02	data collection of warehousing and	collection process of warehousing.
	mining.	
03	To learn about the role of technology	Students learn about the role of
03	in CRM.	technology in CRM.



04	To learn the various software and applications used in CRM.	Students learn about the use of Software and applications in CRM.
NAME OF THE COURSE /SUBJECT/PAPER – TYBBI/Marketing of Banking and Insurance		

#### PAPER NAME/NUMBER: III,

SEM: VI

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
1	Marketing concepts and their Application to Banking industry	To make the students understand the concept of role of banking sector in the services of banks
2	Macro & Micro factors influencing the market good & service	To enable the students to understand the application of marketing principles in banking sectors
3	Selective exposure, selective distortion , and effect on consumer behaviour	To expose the students to learn the concepts of Insurance
4	Market segmentation techniques for personal & corporate customers	To enable the students to know about marketing research and marketing information system

NAME OF THE COURSE /SUBJECT/PAPER - SYBMS / Product Innovation Management

### PAPER NAME/NUMBER: III,

SEM: III

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
1	To understand the concept of Innovation and Relevance of innovations in the present day scenario	To make the students understand the concept of Tools of Innovation
2	To understand the importance of protecting innovations and legal aspects related to innovations.	To enable the students to understand the application Managing and strategizing Innovations.
3	To study product innovations process innovations and innovations diffusions.	To expose the students to learn the concepts of Product and process diffusion.
4	To acquaint with stages in new product development.	To enable the students to know about New product Development and Product testing.

NAME OF THE COURSE /SUBJECT/PAPER -SYBBI / Economics II

### PAPER NAME/NUMBER: II

#### SEM: IV

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
	To make the students understand about	Students gets the knowledge about the
	the Macroeconomic.	concepts of macroeconomics.
01	To make then understand about the	They understand the measurement of
01	measurement of national income.	national income.
	To make them aware about the Keynes	They understand the various Keynes
	theory of effective demand.	theories.
	To make the students understand about	Students understand the demand and
02	the demand and supply of money.	supply of money.
02	To make them aware about the	They get the information about the
	monetary policy and inflation.	monetary policy.
	To provide the students about the	Students came to know about the
03	To provide the students about the	government fiscal policy.
	government fiscal policy	Students understands about the budget
	Make them aware about the budget	and deficit.
	and deficit.	
04	To help students about the theories	Students understand about the various



	and issues of international trade.	issues of international trade.
	To make them aware about the	Students understands about the
	balance of payments system.	balance of payment account.
NAME OF THE COURSE /SUBJECT/PAPER – TYBMS / Direct Tax		

# PAPER NAME/NUMBER: III,

### SEM: V

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
	To understand the concept of	To make the students understand the
1	Amendments in Income tax Act 1961	concept of Income Tax Act 1961.
1	Understand the current application of	
	general taxation principle.	
	To understand the importance of	To enable the students to understand
2	Heads under Salary, Business and	the Residential status and Scope of
	Profession.	Total Income.
3	Provide an understanding of the	To expose the students to learn the
5	taxation of business activity	concepts of Heads of Income.
	To acquaint with Guidelines of Gross	To enable the students to know about
4	total Income and Computation, Be	Computation of Total Income/ Net
4	aware of the potential impacts of	taxable Income .
	taxation on the decision making.	

NAME OF THE COURSE /SUBJECT/PAPER - TYBMS / Indirect Tax

### PAPER NAME/NUMBER: III,

### SEM: VI

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
1	To understand the concept of in Gst Act 2017. Understand the current application of general taxation principle.	To make the students understand the concept of Registration under GST ACT 2017.
2	To understand the importance of Place of Supply and Time of Supply.	To enable the students to understand the that GST is Destination based Tax.
3	Provide an understanding of the taxation of business activity	To expose the students to learn the concepts of Value of Supply to be charged by Government.
4	To acquaint with Guidelines of total Income and Computation, Be aware of the potential impacts of taxation on the decision making.	To enable the students to know about Computation under GST.

NAME OF THE COURSE /SUBJECT/PAPER - TYBMS/ Customer relationship management

### PAPER NAME/NUMBER: III,

SEM: V

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To learn about the evolution of CRM and its needs.	Students understand about the evolution and needs of CRM.
02	Learn about procedure of CRM and data collection of warehousing and mining.	Students learn about the data collection process of warehousing.
03	To learn about the role of technology in CRM.	Students learn about the role of technology in CRM.
04	To learn the various software and applications used in CRM.	Students learn about the use of Software and applications in CRM.



# **PROGRAMME SPECIFIC OUTCOME**

### DEPARTMENT OF ACCOUNTANCY

SR.NO	PROGRAMME SPECIFIC OUTCOME
I	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.
111	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 Finance, Auditing, Taxation, Accounting, Management, Communication and computer.

### **COURSE OUTCOME**:

SEM: I

### ACCOUNTANCY AND FINANCIAL MANAGEMENT

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
Ι	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, Entries
	Final Account of Manufacturing	and accounting procedures of preparation of
	Concern.	Final Account of Sole Proprietary Concern.
III	To teach the concept and procedure	The students will understand the concept and
	of preparation of Departmental	accounting procedure of Departmental Final
	Final Account.	Account and its different adjustments.
IV	To teach the concepts, methods and	The students will understand the concept of
	accounting procedures of Hire	Hire purchase System, different methods and
	Purchase System.	accounting procedures applied in Hire
		Purchase System.

SEM-II

#### ACCOUNTANCY AND FINANCIAL MANAGEMENT

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
Ι	To teach the concepts and	The Students will learn the concept of
	accounting procedures of Accounting	Accounting from Incomplete Records and
	from Incomplete Records (conversion	they will also understand the methods of
	method of Single Entry System).	conversion of single entry system.
II	To teach the concepts, types and	The students will understand in detail the



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

### SEM-III

### ACCOUNTANCY AND FINANCIAL MANAGEMENT

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT		
WISE)		
Ι	To teach the formats and various	The students will understand the basic
	adjustments applicable in partnership	format and different adjustments
	final account.	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 basic
	distribution of cash and its accounting	concepts and accounting procedure of
	procedure.	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 concepts,
	accounting procedure of Amalgamation	objects and accounting procedures to
	of Partnership Firm.	be followed in the case of
		Amalgamation of Partnership Firm.
IV	To teach the concepts and the accounting	The students will learn the concepts
	procedure to be followed in conversion of	and the accounting procedure to be
	partnership firm in to a Limited	followed in the case of conversion of
	Company.	partnership firm in to a Limited
		Company.

SEM-III

### INTRODUCTION TO MANAGEMENT ACCOUNTING

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
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.
ama		

### SEM-IV

AUDITING

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach the concept of auditing, errors and frauds, principle of audit and different types of audit.	The students will be able to understand the concept of auditing 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 program and audit working paper.	**
03	To teach concept, importance and role of test check, sampling technique, internal control and internal audit.	The students will understand in detail the concept, role and importance of test check, sampling techniques, internal control and internal audit.
04	To teach concept and procedure of vouching and verification.	The students will learn in detail the concept and procedure of vouching of income and expenditure and verification of assets and liabilities.

SEM-IV

### ACCOUNTANCY AND FINANCIAL MANAGEMENT

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

**SYLLABUS OBJECTIVES** OUTCOME (UNIT WISE) Ι The Students will understand the concept То teach the concepts and importance of Cost Accounting of cost Accounting system and will be able to differentiate between cost system.



		accounting and financial accounting.
п	To teach the concept of Stock Valuation, Purchasing function , stock level etc.	The students will learn Inventory valuation techniques, Material control techniques Stock procedure etc.
III	To teach the students Labour Costing, Labor Turnover Labour Idle Time and Remuneration methods of labour.	The students will be able to understand the concept and causes of Labour Turnover and idle time. They will also be able to understand the remuneration method.
IV	To teach the students the concept, Classification, Benefits and Allocation of Overheads.	The students will understand the concept and benefits of overheads for the purpose of correct cost calculation.
V	To teach the students concepts of Cost classification, treatment of non- cost item, Determination of total cost and preparation of cost sheet.	The students will be able to understand the basis of cost classification and treatment of non-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 procedure of Reconciliation of Cost and Financial records.	The students will understand the concept and causes of 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 procedure to be
	schedule VI	followed while preparing the final
		account of the companies.
II	To teach the concepts, legal aspect	The students will be able to understand
	and the accounting procedure of	the concept, legal aspect and the
	internal reconstruction.	accounting procedure to be followed in
		the case of Internal Reconstruction.
III	To teach the concepts, conditions	The students will be able to understand
	and accounting procedure to be	the concept and conditions of Buy-Back
	followed in Buy-Back of equity	to be fulfilled as per the Companies Act
	shares.	2013, further they will be able to follow
		the accounting procedure in the case of
<b>TX</b> 7	To track the basis server of	Buy-Back.
IV	To teach the basic concepts of	The students will be able to understand
	investments, its type and accounting	the basic concept of investments, its type
	procedure to record the transactions related to investment accounts.	and accounting procedure to be followed to record the transactions related to
	related to investment accounts.	investment accounting.
V	To make the students aware with	The students will be able to understand
<b>v</b>	Ethical Behavior and its importance	the basic concept of Ethical Behavior
	in financial reporting.	and its importance in the accounting
		system as well as at the time of financial
		reporting.
SEM-VI	Fino	ncial Accounting

### SEM-VI

Financial Accounting

SYLLABUS	OBJECTIVES			OUTCOME
(UNIT WISE)				
Ι	To teach the concepts, methods and		s and	The students will be able to understand
	accounting	procedure	of	the concept, methods of Amalgamation,
	Amalgamation,	Absorption	and	Absorption and External Reconstruction



	External Reconstruction with	and they will also be able to understand
	reference to A.S- 14	the accounting procedure to be followed
		in amalgamation as per A.S-14
II	To teach the concepts, need of	The students will be able to understand
	currency conversion and accounting	the concept, methods, need of currency
	procedure to record the Foreign	conversion and accounting procedure to
	Currency Transaction as per AS-11	be followed to record the foreign
		currency transaction as per AS- 11
III	To teach the concepts, provision and	The students will be able to understand
	the accounting procedure of	the concept, provision and the
	Liquidation of Companies.	accounting procedure to be followed in
		the case of Liquidation of companies
IV	To teach the concepts of	The students will be able to understand
	underwriting and the procedure to	the concept of underwriting and the
	calculate the liability of underwriters	accounting procedure to be followed to
	in the case of Underwriting of	calculate the liabilities of underwriters in
	Shares and Debentures.	the case of underwriting of shares and
		debentures.
V	To teach the concepts of Limited	The students will be able to understand
	Liability Partnership (LLP) and its	the concept of Limited Liability
	formation and the accounting	Partnership (LLP) its formation and the
	procedure to convert the partnership	accounting procedure to be followed at
	in to Limited Liability Partnership	the time of conversion of the partnership
	(LLP).	in to Limited Liability Partnership
		(LLP).
SEM VI		COST ACCOUNTING

### SEM VI

### COST ACCOUNTING

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
I	To teach the concepts of Cost Control, methods and importance of Cost Control Accounts.	The Students will understand the concept of Cost Control as well as they will be able to follow the accounting procedures of Cost Control Account.
II	To teach the concepts, methods of Contract Costing and its accounting procedures.	The students will be able to understand the concept, methods and the accounting procedure of Contract Costing.
III	To teach the concepts, methods of Process Costing and the Treatment of Process loss and determine the process cost including By product and Joint Product.	The students will be able to understand the concept, methods and the accounting procedure of Process Costing including treatment of By product and Joint Product.
IV	To teach the concepts of Marginal Costing and application of Marginal costing in Decision making.	The students will understand the concepts as well as the methodology to calculate the marginal cost of the product under varied situation.
V	To teach the students concepts of Standard Costing and variance analysis.	The students will be able to understand the concepts of 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 Cost Account Like Target Costing , Life cycle costing etc.	The students will be aware about the Emerging Concepts of Cost 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 (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the scope, importance and basic tools used in business economics and basics of market demand and market supply and equilibrium price.	Students understand the concepts and application of economic knowledge in business decision making and market equilibrium.
02	To introduce the concepts of demand functions, its determinants, demand forecasting and elasticity of demand.	Students understand the factors determining demand, significance and methods of measurement of elasticity of demand and demand forecasting.
03	To teach students the concept of supply and production decision, economies and diseconomies of scale.	Students learn various concepts of production function, law of variable proportion, law of returns to scale and factor influencing producer's equilibrium.
04	To introduce the concept of cost and derivation of cost curve in the short- run and long-run. To make them aware about cost reduction through experience and break even analysis.	Students understand the different types of costs and calculation of costs and also know the break- even point determination uses 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 (UNIT WISE)	OBJECTIVES	OUTCOME
01	To introduce the concept of macroeconomics, national income, circular flow of income, trade cycle and Say's law of market.	Students understand the various concepts of macroeconomics like 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 determination of income and output, consumption function, multiplier, investment function and liquidity preference theory of interest.	Students learn the issues and factors determining equilibrium in an economy and marginal propensity to consume and marginal efficiency in capital determine investment and various motives for holding cash.
03	To teach students the concept of inflation, unemployment (Phillips curve), stagflation and supply side economics.	Students learn about the causes of inflation and unemployment and also the importance of government during stagflation.



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

### SEM-IV

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
01	To teach the students role of government in an economy, public finance, fiscal functions and role of markets.	Students understand the role of government and the concept of sound and functional finance and the component and theories of public finance.
02	To teach students the various sources of public revenue, shifting of tax burden, economic effects of taxation.	Students learn the main sources of public finance, objective Canons and effects of taxation.
03	To teach students the classification, Canons, economic effects of public expenditure and the concept and burden of public debt.	Students learn the types, causes of increase the effects of public expenditure and public debt on the economy.
04	To teach students to fiscal policy, budget, intra-governmental fiscal relations.	Students learn the government fiscal policy, its types, objectives and inter- governmental fiscal relation in the country and types of budget.
SEM-V	BU	SINESS 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	Students learn about the
	development since 1991 with special	agricultural sector during
	reference to agriculture policy, finance	post reform period, pricing,
	and marketing developments.	finance and the marketing,
		issues and the government
		policies.
03	To teach students about the industry and	Students learn the
	service sector during the post reform	importance of services
	period.	sector, MSME and the
		growth of the sector during
		post reform period.



04	To teach the recent trends, issues and	Students understand the
	challenges in the banking and insurance	structure, issues and
	sector and the structure and reforms	challenges and reforms,
	introduce the money and capital market.	introduce in Indian
		financial market.

### **SEM-VI**

**BUSINESS ECONOMICS-VI** 

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
01	To introduce the international trade theory	Students learn about
	and the terms of trade and the gains from	various international trade
	international trade.	theories and get the
		knowledge about terms of
		trade and the gains from
		trade.
02	To teach students the commercial trade	Students learn about the
	policy, tariff and non-tariff barriers and	types and importance of commercial trade policies
	the types and objectives of economic integration.	and the objectives and
	integration.	issues of tariff and non-
		tariff barriers and the
		importance of economic
		integration.
03	To teach students about the structure,	Students learn the
	types, causes and measures to correct	concept, structure, causes
	disequilibrium in BOP and the agreements	of disequilibrium and
	of WTO.	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
<b>PS0 1</b>	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	Objectives	Outcome
Wise)		
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.	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 Shares and mutual funds	To familiarize the concept of shares, mutual funds, bonus shares, mutual funds and sip in real life	Enable learners to solve real life examples on shares and mutual funds
Unit – ii Permutation & combination	To provide practical exposures of lpp problems to maximizes the profit or minimize the loss	Enable learners to solves examples of lpp in real life
Linear programming problems	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	To familiarizes the concept of statistics To provide practical exposure on	Enable learners to solve basic of central tendency in real life situation
Measures of dispersion	calculation of measures of average, median, mode and standard deviation	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 real- world statistical applications.	Develop problem-solving techniques needed to accurately calculate probabilities. Apply problem-solving techniques to solving real- world events.



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DAAR-UL-REHMAT TRUST's

A.E.KALSEKAR DEGREE COLLEGE

# PROGRAMME: BACHELOR OF SCIENCE (B.SC) & (B.Sc.IT)

# **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

WISE)	
ALGAEcharacters of the lowerva1 Structure, lifegroups of plants. Have anconcycle and systematicidea on diverse groups ofthposition of Nostocand Spirogyra.eto understand economical2 Economicapplication of theoreticalinimportance of Algaeto understand economicalecoUNIT IIfunglientity in various fieldsinFUNGIThe course aims to providealan understanding theardiversity of fungal worldalcycle and systematicand its significance.wposition ofunderstand the variousdiRhizopusandand its significance.wAspergillusunderstand the variousdi2 Economicimportance of Fungi.To understand economicalandin Fungiarn liceases and theirinan understand economicalanditsand its significance.wand its ases and theiritsimportance of Fungi.multication of theoreticalan understand economicalitsand its ases and theiritsimpact on agricultureitsarn liceation of theoreticalits	<ul> <li>I) Students learn to identify various divisions of algae and compare their characteristics hrough microscopic observation.</li> <li>I) Student gain awareness about economic importance of algae n various field like medicine, agriculture, research and ndustries which helps them to also understand the practical application of the algal studies.</li> <li>Students get familiarised with identification of various divisions of algae through microscopic observation.</li> <li>Student gain awareness about ts role in controlling various olant diseases and get acquainted about economic</li> </ul>



UNIT III BRYOPHYTA 1 General characters of Hepaticae 2 Structure, life cycle and systematic position of Riccia.	<ul> <li>entity in various fields</li> <li>To understand the importance of biological entities in process of Decomposition and mutual associations between various organism.</li> <li>To understand various adaptations and modification in plants in course of journey of aquatic to terrestrial evolution.</li> </ul>	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.
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### SEM-I

### FORM AND FUNCTION 1

SYLLABUS (UNIT WISF)	OBJECTIVES	OUTCOME
<ul> <li>WISE)</li> <li>UNIT I</li> <li>CELL BIOLOGY</li> <li>1 General structure of plant cell: cell wall</li> <li>Plasma membrane</li> <li>(bilayer lipid</li> <li>structure, fluid mosaic</li> <li>model)</li> <li>2 Ultra structure and</li> <li>functions of the</li> <li>following cell</li> <li>organelles:</li> <li>Endoplasmic</li> <li>reticulum and</li> <li>Chloroplast.</li> <li>UNIT II</li> <li>ECOLOGY</li> <li>1 Energy pyramids</li> <li>energy flow in an</li> <li>ecosystems: aquatic</li> <li>and terrestrial.</li> <li>UNIT III</li> <li>GENETICS</li> <li>1Phenotype/Genotype,</li> <li>Mendelian Genetics- monohybrid, dihybrid;</li> <li>test cross; back cross</li> <li>ratios.</li> <li>2Epistatic and non</li> <li>epistatic interactions;</li> <li>multiple alleles.</li> </ul>	<ul> <li>To understand the basic principles related to various physiological functions in plant life</li> <li>Aims to make student understand role and structure of various cell organelles and its specificity to a particular function.</li> <li>To understand interdependence of various biological entities and to understand energy transfer mechanism in an ecosystem.</li> <li>It aims to study organism and characteristics of different ecosystem.</li> <li>To study genetic laws and understand basic pattern of inheritance or heredity.</li> </ul>	<ol> <li>Students get familiarised with basic skills and techniques of plant physiology by studying some cell organelles under microscope.</li> <li>Student understands mechanism of transport within the cell and get acquainted with applied aspects of plant physiology.</li> <li>Student understands importance of various organisms in maintaining balance in an ecosystem by studying food chain charts and energy flow models.</li> <li>Help students to identify the nature and interactions of populations in the ecosystem. Various adaptations are studied through practical identification of various adaptive characters of plants of varied diversified habitat.</li> <li>Student understand pattern of inheritance by performing and solving various crosses and through micrograph of various karyotype.</li> <li>Students get familiarized with nuclear and extra nuclear inheritance.</li> </ol>



SEM-II

### PLANT DIVERSITY 1

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
<ul> <li>UNIT I PTERIDOPHYTES</li> <li>1 Structure life cycle, systematic position and alternation of generations in Nephrolepis</li> <li>2Stelar evolution</li> <li>UNIT II GYMNOSPERMS</li> <li>2 Structure life cycle systematic position and alternation of generations in Cycas</li> <li>2 Economic importance Gymnosperms.</li> <li>UNIT III</li> <li>ANGIOSPERMS</li> <li>1. Leaf: simple leaf, types of compound leaves, Incisions of leaf, venation, phyllotaxy, types of stipules, leaf apex, leaf margin, leaf base, leaf shapes.</li> <li>Modifications of leaf: spine, tendril, hooks, phyllode, pitcher, Drosera or insectivorous plants.</li> <li>2 Inflorescence: Racemose: simple raceme, spike, catkin, spadix, panicle.</li> <li>Cymose: monochasial, dichasial, polychasial.</li> <li>Compound: corymb, umbel, cyathium, capitulum, verticellaster, hypanthodium.</li> <li>3 Study of following families: Malvaceae, Amaryllidaceae.</li> </ul>	<ul> <li>The course aims to develop an understanding about the diversity in habits, habitats and to understand structure of pteridophyte, gymnosperms and angiosperms.</li> <li>To understand phylogenetic relationship of various types of modifications in vascular bundle</li> <li>to understand economical application of theoretical knowledge of Gymnosperms in various fields</li> <li>Understand and study various shapes and modification in leaf and inflorescence of plants. To study distinguishing characters of families for taxonomical identification.</li> </ul>	<ol> <li>Students learn identification of various divisions of pteridophyte and compare their characteristics through macro and microscopic observation.</li> <li>Student understands types of stele through identification practical by observing various types of stele under microscope.</li> <li>Student gain awareness about economic importance of Gymnosperms in various field like medicine, agriculture, research and industries which helps them to also understand the practical application of the studies.</li> <li>Students develop inductive and deductive reasoning ability through plant identification practical's by studying various morphological characters and modification observed in plants.</li> <li>Student Understands the life cycle pattern of most evolved group of plants.</li> </ol>

### SEM-II

### FORM AND FUNCTION 1

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I ANATOMY 1 Simple tissues, complex tissues	• To study different types of tissue their structure, position and	1] Helps Students to Identifies role of anatomy and familiarise students with various types of tissues by microscopic practical's by preparing



<ul><li>2 Primary structure of dicot and monocot root, stem and leaf.</li><li>3 Epidermal tissue</li></ul>	<ul> <li>function</li> <li>To understand anatomical structure of dicot and monocot</li> </ul>	<ul><li>temporary sections of various parts of plants.</li><li>2] Through staining practical students can study to identify various types of</li></ul>
root, stem and leaf. <b>3</b> Epidermal tissue system: types of hair, monocot and dicot stomata. <b>UNIT II</b> <b>PHYSIOLOGY</b> <b>1</b> Photosynthesis: Light reactions, photolysis of water, photophosphorylation (cyclic and non cyclic), carbon fixation phase (C3, C4 and CAM pathways). <b>UNIT III</b> <b>MEDICINAL</b> <b>BOTANY</b> <b>1</b> Concept of primary and secondary metabolites, difference between primary and secondary metabolites. <b>2</b> Grandma's pouch: Following plants have to be studies with respect to botanical source, part of the plant used, active constituents present and medicinal	anatomical structure	2] Through staining practical students
uses: Oscimum		
sanctum, Adathodavasica, Zinziberofficinale,		
Curcuma longa, Santalum album,		
Aloe vera.		
	SDECIEIC OUTCOM	

# 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 industry.
	nitrogen and sulphur.	



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 stereochemical	configurational isomer.	conformation and
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 gas	equation and Vanderwaal
	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 equation	Students will know the
Ionic equilibria.	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 the
	spectroscopy, region of	electro magnetic radiation,
	electromagnetic radiation and	type of spectroscopy, region of
	application of different	electromagnetic radiation and
	spectroscopic techniques.	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 understand
Concept of aromaticity,	cycloalkane.	concept of stability.
antiaromaticity and	To study basic concepts	Students gained an
nonaromaticity. Electrophilic	involve in reaction and its	understanding of predicting
substitution reactions.	mechanistic pathway.	reaction mechanism.



### SEM-III

### **CHEMISTRY-I**

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

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



SEM-III

### DAAR-UL-REHMAT TRUST'S **A.E.KALSEKAR DEGREE COLLEGE** Permanently Affiliated to University of Mumbai Accredited by NAAC with "B++" Grade ISO Certified 9001 : 2015 Kausa Mumbra, Thane-400612

### CHEMISTRY-III

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
Unit-1	To have better understanding of	Students understand the concept of
Introduction to	quality control and quality	Quality control and quality
Analytical chemistry	assurance and different types of	assurance. Also they learn term
and Statistical	samplings process.	Sampling in brief.
treatment of		
Analytical Data.		
Unit-2	To understand about different	Student understand about different
Classical methods of	types of titration process.	types of titration process.
analysis	To study about basic instruments	Student learn about basic
	likes pH meter, Potentiometer.	instruments likes pH meter,
	To study about Gravimetric	Potentiometer.
	Analysis.	Student know about Gravimetric
		Analysis.
Unit-3	To provide experience in	Students learn about UV-visible
Instrumental	scientific analytical instruments	spectrophotometry
Methods-I	likes Spectrometer and	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 and
	Free energy change.	Free energy change.
	To provide knowledge about	Student learns about different
	different terms involved in	terms involved in Phase rule
	Phase rule likes Phase, Number	likes Phase, Number of
	of components, Number of	components, Number of
	freedom etc.	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 block
&coordination chemistry.	Describe the characteristic	elements
	electron configuration of the	2)To know the structure and
	transition elements.	bonding of important
		coordination compounds · To
	To understand the key features	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 their
	electronic configurations	structure $\cdot$ To get an
	coordination numbers, ligands,	overview about the
	chelates bonding, stability of	stereochemistry of
	complexes.	coordination compounds.
UNIT III: Organic Chemistry	To study basic concepts involve	Students are capable of
Carboxylic acid and its	in reaction and its mechanistic	getting outcome of the
derivative.	pathway.	reaction.
Study of Sulphonic acid.	To understand reaction	Students are capable of
	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 (UNIT WISE)	OBJECTIVES	OUTCOME
Unit- 1 Analytical Separation	To have better understanding of Analytical separation techniques like Precipitation, Filtration, Centrifugation, Electrophoresis, Solvent Extraction and Classifications of Chromatography.	Students understand the concept of Precipitation, Filtration, Centrifugation, Electrophoresis, Solvent Extraction and Classifications of Chromatography.
Unit-2 Instrumental Methods-II	To provide experience in scientific analytical instruments likes pH meter, Condctometer.	Student learn about basic instruments likes pH meter, Condctometer.
Unit-3 Statical treatment of Analytical data	Statistical Treatment of Analytical Data provides a practical understanding of statistical treatment of data and how to apply it in actual day-to-day activities in the laboratory to improve the quality and reporting of analytical data	Students learn about practical understanding of statistical treatment of data.



### SEM-V

### CHEMISTRY-I(PHYSICAL CHEMISTRY)

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Unit 1:molecular spectroscopy	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 imparts the students for getting basic concept of all types of spectroscopy and its application.
Unit 2:chemical thermodynamics	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.	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 day to day life.
Unit 3:Nuclear 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 .	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.
Unit 4:Surface chemistry SEM-V	To learn about physical adsorption and chemical adsorption. To understand different adsorption and electrolysis	To study the adsorption helps to predict phase change with respect to temp and pressure.Electrolysis process helps to predict biological function.

SEM-V

CHEMISTRY-II (INORGANIC CHEMISTRY)

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
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 <sup>st</sup> 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 of interhalogen 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)

SALLABUS UNIT WISE	OBJECTIVES	OUTCOME
UNIT I: Mechanism of organic reactions, NGP,ArNu substitution, Pericyclic reaction and pyrolytic elimination. Photochemistry: Introduction and photochemical reactions of olefins and carbonyl compound.	The aim of this organic chemistry course is to introduce students to many of the key concepts of organic chemistry. Particular emphasis is placed on the underlying mechanistic pathways that are involved together with some of their stereochemical consequences.	Students recognize many functional groups and their reactivity, many fundamental bond forming reactions and how to apply them in synthesis Describe bonding models and appreciate how these impact on the properties of a simple molecule Apply curly arrow nomenclature to depict the mechanistic course of a reaction Appreciate when different reactions are likely to compete and ways to bias reactions towards a single outcome Understand and apply the concept of protecting groups
UNIT II : Stereochemistry I Molecular chirality and elements of symmetry. Chirality of compounds without stereogeniccsntre. Heterocyclic chemistry. Reactivity, preparation and reactions pyridine N-oxide, quinolone and Isoquinoline.	To understand stereoisomers of organic compounds, and recognise diastereomers, enantiomers, meso compounds and centres of symmetry, stereoisomers of chiral compounds that do not contain a stereogenic carbon centre and assign the configuration of the stereoisomers.	Students are able to recognise diastereomers, enantiomers, meso compounds and centers of symmetry, stereoisomers of chiral compounds.
UNIT III: IUPAC of Bicyclic compounds, Biphenyls, Cummulenes, Quinolines and isoquinolines. Synthesis of organic compounds.	To provide knowledge of systematic naming of organic compound. To emphasis on the underlying mechanistic pathways.	Students are able to recognize name and structure of compound. Students are able to do mechanism of reaction.
UNIT IV : Spectroscopy Introduction, UV-Visible and Mass spectrometry. Study of natural products.	To understand the principle of UV-Visible and Mass spectroscopy. To get information of structure and synthesis of certain natural products.	

SEM-V

### CHEMISTRY-IV

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
Unit-1	To have better understanding of quality	Students understand the
Concept of Quality	control and quality assurance and	concept of Quality control and
Control and Quality	different types of samplings process.	quality assurance. Also they
assurance, Chemical		learn term Sampling in brief.
Calculation and		
Sampling.		



Unit-2 Titrimetric Analysis	To establish an appreciation of the role of Chemistry in quantitative analysis. To understand about different types of titration process.	Student understand the role of Chemistry in quantitative analysis. Also they know about different types of titration process.
Unit-3 Optical Methods	To provide experience in scientific analytical instruments likes Spectrometer(single beam and double beam spectrophotometer) and colorimeter (UV-visible spectrophotometry)	Students learn about UV- visible spectrophotometry i.e. Spectrometer and colorimeter.
Unit-4 Methods of separation-I	To understand the terms like filtration, distribution, distillation etc.	Students understand about different methods of separation with basic separation terms.

### SEM-VI

### CHEMISTRY-I (PHYSICAL CHEMISTRY)

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

### 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	characteristics of the d and f



Unit 2 :Theories of metal ligand bond	transition-metal complexes, including their colors, magnetism, structures, stability, and reactivity. The central assumption of CFT is that metal—ligand interactions are purely 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.	<ul> <li>block elements To give the students a thorough knowledge of the different theories to explain the bonding in coordination compounds</li> <li>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).</li> </ul>
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	<i>Metallurgy</i> customarily refers to commercial as opposed to laboratory methods. It also concerns the <i>chemical</i> , <i>physical</i> , 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.

SEM-VI

CHEMISTRY-III (ORGANIC CHEMISTRY)

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
Unit I)	To understand the concept of basic	The students are able to understand
Stereochemistry	terms such as selectivity,	the concept of selectivity,
:	specificity, topicity.	specificity and topicity. Students
stereoselectivity	To understand the stereochemistry	are able to understand
and	of some selected reactions.	stereochemical outcome of the
stereospecificity	It aims to study about amino acids	reaction.
, topicity and	and proteins. How they are	
stereochemistry	synthesized. It also include study of	Students are able to understand
of SN , E2	polypeptides.	general theory and structure of



[		
,bromination,sy nhydroxylation and epoxidation. Amino acids and Proteins: General theory preparation and reactions. Study of polypeptide and proteins.		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 DNA and RNA and Nucleic acid.	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, Bases, Nucleotides and Nucleosides.
Unit IV) Polymers: Introduction, addition and condensation polymer,stereoc hemistry natural and synthetic polymer. Additives and biodegradable	To study about structure and uses of addition and condensation polymers. To study biodegradable, natural and synthetic polymers. To understand stereochemical outcome by using Zeigler Natta Catalyst. To understand use of reagents and catalyst in certain reaction and its selectivity.	On completion of course students will be to describe the general structure, uses and synthesis of polymer. They also gained information of biodegradable polymers. Students are able to understand which types of catalyst and reagents are used on a suitable substrate.
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

CVI I ADUC	ODIECTIVES	OUTCOME
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 cells
Analytical	electrochemical cell.	like Polarimeter and Amperometer.
Technique		
Unit-2	To understand the Instrumentation	Students study about Instrumentation of
Methods of	of Gas Chromatography, HPLC.	Gas Chromatography, HPLC in details.
Separation-II		
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 of
Cosmetic	features of bio resources.	bio resources.
Analysis.		
Unit-4	To understand the different kinds of	Students understand the different kinds
Thermal	Thermal Methods and	of Thermal Methods.
methods	Instrumentation regarding Thermal	Students have better understanding of
Analytical	process.	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.		



P		
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	To study the importance of dyes	Students now about different uses of
Biomedical uses	in medicine, foods, cosmetics,	drugs its importance and side effect.
of dyes. Dyes	paper, leather, hair and laser.	
used in foods and		
cosmetics. Paper		
and leather dye.		
Hair and leaser		
dyes. Indicators,		
security ink		
.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	1) To get learners fascinated by the world of animals.	1) Learners will be fascinated by the amazing world of animals.
animal world	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.
	2) To guide them in detail through the various aspects of flora and fauna.	2) Learners will gain the knowledge of different levels and forms of biodiversity.
	3) To make them understand the significance of its conservation.	3) They will learn to contribute 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)		
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 import knowledge about course	1) Learners would be encouraged
	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	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I:	1) To make learners able to learn the	1) Learners would comprehend
Fundamentals	concept of heredity and inheritance.	and apply the principles of
of Genetics		inheritance to study heredity.
	2) To make them aware about the	2) Learners would understand the
	principles of alleles, linkage,	concept of multiple allele,
	recombination and crossing overs.	linkage, crossing over.
	3) To give them knowledge about the	3) Learners would develop
	work of Mendel and his contribution	conceptual clarity of Mendelian
	to genetics as Mendelian inheritance.	Inheritance.
UNIT II:	1) To teach them the basic structure	1) Learners will comprehend the
Chromosome	and types of chromosome.	structure of chromosome and its
and Heredity		different types.
	2) To make them understand the	2) Learners will understand the
	concept of sex determination by the	mechanism of sex determination
	combination of sex chromosomes in	in different life forms.
	different animals.	
	3) To make them learn about various	3) Learners would be able to
	chromosomal aberrations and its	understand and correlate
	effect.	disorders with chromosomal
		abnormalities.
UNIT III:	1) To teach them the basic structure	1) Learners will understand the
Nucleic acids	of nucleic acids.	concept of nucleic acids as
		genetic material
	2) To get them fascinated about the	2) Learners will study the concept
	whole concept of gene expression in	of gene expression and
	the form of proteins.	regulation.
	3) To make them understand the	3) Learners will grasp the idea
	theory of central dogma of molecular	and significance of central
	biology and hierarchy of	dogma.
	biomolecules.	



### 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 osmoregulation.
	2) To expose the learners to various nutritional apparatus, excretory and osmoregulatory structures.	2) Learners would be able to 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.
SEM III	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

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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 simple preventive measures can be	3) Learners will learn to take 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	animals useful to mankind.
	science.	
	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.	1) 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	3) Learners will gain insight
	cytoplasmic components and various	into the composition of
	transport mechanisms.	cytoplasm and transport
		mechanisms.
UNIT II: Endo-	1) To acquaint the learners with the	1) Learners would appreciate
membrane	ultra-structure of cell organelles and	the intricacy of endo-membrane
system	their functions.	system.
	2) To teach them about the regulatory	2) Learners would understand
	factors required for smooth functioning	the interlinking of endo-
	of cell	membrane system for
		functioning of cell.
	3) To imbibe in them the concept of	3) Learners would gain
	energy production and expenditure at	knowledge about energy
	cellular level.	production in cell.
UNIT III: Bio-	1) To give learner insight into the	1) Learner will realize the
molecules	structure of biomolecules.	importance of various bio-
		molecules.
	2) To make them understand the role of	2) Learners will understand the
	biomolecules in the sustenance of life	critical significance of bio-
		molecules.
	3) To teach them about micro molecules	3) Learners will acquire
	and macro molecules.	knowledge about the monomers
		and their polymers.
SEM IV		

### 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.	<ul><li>2) Learners will become</li><li>familiar with the revolutionary</li><li>advances in 'IVF' and other</li><li>'ART' procedures.</li></ul>
	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 (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I : Principles of Taxonomy	1) To introduce the learners the principle of taxonomy.	1) Learners will understand the principles of taxonomy and 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 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 Immunology	1) To introduce the learners to the topic of immunology by emphasizing on the basics to build a strong foundation.	1) The learners shall comprehend the types of immunity and the components of immune system.
	2) To impart them knowledge about significance of immune system in disease resistance.	2) The learners will realize the significant role of immune system in giving resistance against diseases.
UNIT IV: Applied immunology	1) To introduce immunopathology and immunological perspectives of organ transplantation.	1) The learners will develop basic understanding of immunology of organ transplantation
	2) To introduce the concept of vaccines and vaccinations.	2) The learners shall understand immune- pathology and the principles and applications of vaccines.

SEM-V

**ZOOLOGY-III** 

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Mammalian histology	1) To introduce learners to the concept of planned organization of tissues and cells.	1)Learners would be familiarized with the cellular architecture of the various organs in the body
	2) To make them understand the need and importance of various types of tissues in vital organs.	2) Learners would appreciate the well planned organization of tissues and cells in the organ systems
UNIT II: Toxicology	1) To introduce the learner to the principles of toxicology with emphasis on toxic response to chemical exposures.	1) The learners will be able to develop broad understanding of the different areas of toxicology.
	2) To develop amongst learners an introductory understanding of regulatory affairs in toxicology.	2) The Learners will also develop critical thinking that will assist students in preparation for employment in pharmaceutical industry.
UNIT III: General pathology	1) To teach them about the basics of general pathology.	1) The learners will be allowed to have a deep understanding of general pathology.
	2) To impart knowledge of retrogressive, necrotic, pathological conditions and repair mechanisms of the body.	2) Learners will be exposed to various medical terminologies pertaining to pathological condition of the body caused due to various diseases.
UNIT IV: Biostatistics	1) To familiarize learner with biostatistics as an important tool of analysis.	1) The learners will be able to collect, organize and analyze data using parametric and nonparametric tests.
	2) To teach them about the wide application of biostatistics.	2) The learners will be able to 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: Developmental biology of Chick	1) To introduce the basic concept of developmental biology with reference to chick as a model.	1) Learners will be able to understand the processes involved in embryonic development.
	2) To make them understand about the processes involved in embryonic development and practical application of studying chick embryology.	2) Learners will also study practical applications of chick embryology and its development stages.

SEM-V

ZOOLOGY (APPLIED COMPONENMT- FISHERY BIOLOGY).

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I:	1) To enable learners learn about	1) Learnessr shall understand
Oceanography	oceanographic, navigational and sea	and learn about the use of sea
	safety instrument.	safety, navigational equipments
		and oceanographic instruments.
	2) To teach them about basic physical,	2) Learners shall understand
	chemical and biological parameters of	basic physical, chemical and
	oceans.	biological oceanography.
UNIT II: Crafts	1) To acquaint learners about	1) Learners shall comprehend
and gear	techniques of boat building and engine	boat building techniques and
	designing.	design of engines used in
		mechanized boats.
	2) To make them understand about	2) Learners shall understand the
	various types of nets and fishing	operations of various types of
	method.	nets and fishing method.



UNIT III:	1) To develop skills of breeding	1) Learners will comprehend
Farming of	techniques, hatchery management and	hatchery and nursery
major carps	management of major carps.	management of major carps.
major carps	2) To study and explore various	2) Learners will understand
	techniques used in fishery poly culture.	breeding techniques and skills
	teeninques used in fishery pory culture.	for culture of major carps.
UNIT IV:	1) To develop skills and understanding	1) Learners will gain
Introduction to	of breeding and rearing of sewage-fed	knowledge about how to breed
other	fishery, Basa cat fish and tilapia by	and rear ornamental fishes and
commercial	novel ways.	commercially viable fish
aquaculture		species.
practices in	2) To teach learners about various	2) Learners will be equipped to
fresh water	entrepreneurial operations to make	carry out entrepreneurial
	them able to work in fishery units.	operations or gain confidence to
		work in freshwater prawn unit.
UNIT V:	1) To study rearing practices of fin-fish	1) Learners shall understand
Culture of shell	and shell fishes.	breeding techniques, hatchery
fishes and fin-		and management of finfish and
fish		shell fishes.
	2) To study culture of brackish water	2) Learners shall understand the
	shrimp.	rearing techniques.
UNIT VI:	1) To comprehend various aspects of	1) Learners will be oriented
Quality control	quality control.	towards understanding the
and packaging		various stages of quality
		control.
	2) To acquaint learners about various	2) Learners shall comprehend
	packaging processes involved in fish	the value of maintaining and
	processing and marketing.	taking sanitary precautions
		during the processing and
		packaging operations.
UNIT VII:	1) To acquaint learners with the	1) Learners shall acquire
Quality control	fundamentals of marketing and finance.	knowledge about traditional
and packaging		marketing practices and role of
		co-operatives in selling fish.
	2) To instill in them the knowledge of	2) Learners shall be exposed to
	various aspects of entrepreneurship in	the avenues and procedure for
	fishery related enterprises.	raising funds for fishery related
		entrepreneurial practices.
UNIT VIII:	1) To inculcate entrepreneurial abilities	1) Learners will gain technical
Case Study and	and skills so as to make learners	and financial knowledge in
Simulation	confident and prepare them to raise new	fishery biology business
	projects in the realm of fishery biology.	ventures.
	2) To assess varying dimensions while	2) Learners will develop better
	taking decisions in fishery biology.	acumen so as to take wise and
		necessary decisions while
		participating in fishery biology
		related projects.

SEM-VI

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT I: Phylum	1) To introduce basic concept of modern chordate classification with	1) Learners will get glimpse of origin of Chordates, its
Chordata: Group	evolution point of view.	taxonomy with reference to phylogeny and their special
Protochordata		features.

ZOOLOGY-I



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and Group Euchordata I	2) To make them understand the concept of taxonomy in higher animal kingdom.	2) Learners would be in a position to understand the concept of taxonomy in higher animal kingdom.
Unit II: Group Euchordata II	1) To teach learners about the characters of Euchordata division.	1) Learners will be studying the 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: Group Euchordata III	1) To introduce the learners to the distinguishing characters of class reptilian, aves and mammalia	1) Learners will understand the characteristic features and examples of each class of Reptilia, Aves as well as Mammalia.
	2) To teach them about their adaptive features with reference to their habitat.	2) This will help learners to study distinguishing characters of classes Reptilia, Aves and Mammalia and their adaptive features with reference to their habitats.
UNIT IV: Type Study: Shark	1) To study in depth one vertebrate animal type	1) Learners will get an idea of vertebrate animal life (one representative animal which is shark).
	2) To study the general characteristics and salient features of shark.	2) Learners would be getting chance to study salient features and general characters of shark.
SEM-VI		ZOOLOGY-II

SEM-VI	

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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.



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UNIT IV: Animal tissue culture	1) To introduce to the learners the fundamental concept of tissue culture.	1) The learners would be studying the importance of tissue culture in specialized areas of research.
	2) To guide them progressively through certain areas of animal tissue culture.	2) The learners would be in position to appreciate applications of tissue culture in various industries.

SEM-VI

ZOOLOGY-III

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

### SEM-VI ZOOLOGY(APPLIED COMPONENET- FISHERY BIOLOGY)

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT I: Marine	1) To study coastal and deep sea fishes.	1) Learner shall understand
Fin-fish of India		deep sea and coastal fishes.
	2) To study commercial potential and	2) Learner shall understand
	major landing centers.	commercial potential and
		know about the major landing
		centres of the fishes.
UNIT II:	1) To develop an in-depth understanding	1) Learner shall understand
Marine Shell of	of crustaceans and molluscan fisheries.	crustacean and molluscan
India		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.



COURSE OUTCOME BSc.IT

PAPER NAME/NUMBER: Digital E		lectronics SEM: I
SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Unit-1	To acquire the basic knowledge of digital logic levels and application of knowledge to understand digital electronics circuits	Have a thorough understanding of the fundamental concepts and techniques used in digital electronics.
Unit-2	To understand and examine the structure of various number systems and its application in digital design.	Ability to solve numericals based on number system.
Unit-3	To prepare students to perform the analysis and design of various digital electronic circuits.	. The ability to understand, analyze and design various combinational and sequential circuits.
Unit-4	To prepare students to identify basic requirements for a design application and propose a cost effective solution	Ability to identify basic requirements for a design application and propose a cost effective solution.
Unit-5	To prepare student to identify hazards and timing problems in digital electronics	The ability to identify and prevent various hazards and timing problems in a digital design

PAPER NAME/NUMBER

Green Computing

SEM: II

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Unit-1	To acquire knowledge about the problems concerning with disposal of e-waste and its consequences on the environment.	knowledge about the problems concerning with disposal of e-waste and its consequences on the environment.
Unit-2	To acquire issues related to power consuming as well as the energy cost associated with the cooling of computing devices. components involved and how effectively we can achieve cost saving without harming the environment.	The issues related to power consuming as well as the energy cost associated with the cooling of computing devices. components involved and how effectively we can achieve cost saving without harming the environment.
Unit-3	To Study how to reduce paper use.	The procedural aspects towards going green. It also gives the advantages and cost saving measures of going paperless.
Unit-4	To acquire knowledge about recycling issues.	addresses the recycling issues the standard procedures that are followed by the well-known countries for



		recycling of waste in proper way. also addresses the hardware related part and mentions some of the effective selection and utilisation strategies that we can adopt in case of hardware.
Unit-5	To acquire knowledge about how to go green and how to maintain it.	Change the entire organization green. The metrics we can adopt for the entire organization. Learn how to go green and how to maintain it.

PAPER NAME/NUMBER: Busines		s Intelligence SEM: VI
SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Unit-1	To acquire knowledge about BI data ware house and decision support system.(D.S.S)	Define the basic concepts of Business Intelligence and Data Warehouses. Understanding the concept of D.S.S
Unit-2	To understand the concept of models. ETL process.	Apply the principles of DW modelling Employ the basic ETL procedures
Unit-3	To acquired knowledge about classification models. To understand the method of clustering.	Able to solve problem based on clustering. Differentiate between classification and clustering. Solve the problems based on clustering.
Unit-4	To develope knowledge about marketing models. To understand the concept of data analysis.	Understand the concept of marketing models. Solve the problem based on data analysis.
Unit-5	To understand the concept of knowledge management. To acquired knowledge about artificial intelligence and expert system.	Define knowledge management. Differentiate between artificial and natural intelligence. Understanding the concept of expert system.

PAPER NAME/NUMBER: Computer graphics and animation SEM: IV

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
Unit-1	To acquired knowledge about areas of computer graphics, overview of graphic system, video-display devices, raster- scan systems, graphic monitors and input devices.	Student learn about overview of computer graphics, video display device, graphics monitors and input devices.
Unit-2	To learn how to draw points and lines, line drawing algorithms, mid-point circle algorithm, Filled area primitives: scan-line	Student learn about draw points and lines, line drawing algorithms, mid- point circle algorithm, Filled area primitives: scan-line polygon fill



	polygon fill algorithm, boundary- fill and flood-fill algorithm.	algorithm, boundary-fill and flood-fill algorithm.
Unit-3	To acquired knowledge about graphics tools and techniques.	Students will be able to work and interact, through hands-on experiences, to design, develop, and modify electronically generated imaginary using a wide range of sophisticated graphical tools and techniques.
Unit-4	To learn different hidden surfaces, elimination and shading technique	Students will be able to summarize different hidden surface elimination algorithms and shading techniques used in computer graphics and digital media production.
Unit-5	To acquired knowledge about multimedia content for the web, Video analyze DVD 2D and 3D graphics sound and programming.	Students will be able to explain about the technology necessary for creating multimedia content for the web, video, Analyze DVD, 2D and 3D graphics, Sound and programming

PAPER NAME/NUMBER: Principles of geographic information system SEM: VI

	-	
SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT - I	To learn nature of GIS, spital data and	Analyse & implement history
	Geo-information ,model of modelling	of GIS, architecture & its
	,maps ,databases.	components of GIS, types of
		geographic phenomena.
UNIT - II	To study GIS architecture and	Acquire GIS Architecture,
	functionality, spital data infrastructure,	spital data infracture, stages of
	stages of spital data handling.	spital data handling.
UNIT -III	To study reference surface for	Analyse & implement mapping
	mapping, satellite based positioning.	projections and satellite based
		positioning.
UNIT - IV	To learn spital data analysis, overlay	Analyse & implement GIS
	function, GIS application models.	application models, overlay
		function.
UNIT - V	To study data visualization, GIS and	Analyse & implement GIS
	maps.	maps, virtualization process.
Name of the Course /Subject/Paper: Numerical And Statistical Methods SEM:II		

Name of the Course /Subject/Paper: Numerical And Statistical Methods SEM:II

SYLLABUS (UNIT	OBJECTIVES	OUTCOME
WISE)		
Unit - I	To acquire knowledge of	Enable learner to frame a real
Mathematical	preparing a mathematical model	life situation and constraints of
modelling	based on real situations	industry in mathematical
Approximations		model form
And round off errors		
Truncation error and		
taylor series		
Unit – II	Students will develop skills in	Students will able to solve
Algebraic and	understanding equations and	equations of linear expressions
transcendental	finite pattern of sequences with	Students will able to form a



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Equations	random orders	pattern and able to simplify it.
Interpolation		
Unit – III	Differentiation and integration	Students are able to apply
Solution and algebraic	can help to solve many types	differentiation and integration
equations using	of <b>real-world problems</b> .	in solving real-
iterative methods	To understand modelling the	world problems.
Numerical	behaviour of moving objects.	Student will have a working
differntiation and		knowledge of basic application
Integration		problems described by second
Numerical solution of		order linear differential
1 <sup>st</sup> and 2 <sup>nd</sup> differential		equations with constant
equations		coefficients.
Unit – IV	To acquire knowledge of best fit	Students able to predict future
Least square regression	of data and provide visual	value of respective situations
Linear programming	demonstration between	based on values with defining
	relationship of data	some constraints
Unit – V	Providing students with a formal	Develop problem-solving
Random variables and	treatment of probability theory.	techniques needed to
dsitributions	Fostering understanding through	accurately calculate
	real-world statistical	probabilities.
	applications.	Apply problem-solving
	**	techniques to solving real-
		world events.
NAME OF THE COUD	SE /SUDIECT/DADED, Embaddad	Systems SEM: III

NAME OF THE COURSE /SUBJECT/PAPER: Embedded Systems

SEM: III

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
I	Students will try to learn:	Students will able to: Explain
	The concepts of embedded systems,	the embedded system concepts
1	Characteristics and quality attributes	and architecture of embedded
	of embedded systems.	systems
	Embedded Systems – Application and	Describe the architecture of
II	Domain Specific	8051 microcontroller and write
11		embedded program for 8051
		microcontroller
	Basic of microcontroller 8051 and	To work with 8051 controller
III	8051 Programming in C.	and developing programs in
		embedded C.
	The concepts of microcontroller	Design the interfacing for 8051
IV	interface and Different design	microcontroller and Select
	platforms used for an embedded	elements for an embedded
	systems application	systems tool.
V	The concepts of real time operating	Demonstrate the open source
	system	RTOS and solve the design
		issues for the same.

### NAME OF THE PAPER: IMPERATIVE PROGRAMMING

SEM: I

SYLLABUS (UNIT WISE)	OBJECTIVES	OUTCOME
UNIT - I	To learn Types of programming languages, history, features and application, structure of a program	Analyse & implement Types of programming languages, history, features and application, structure of a program
UNIT - II	To learn Operators and Expressions, Data Input and output	Analyse&implementOperatorsandExpressions,Data Input and output



UNIT -III	To learn Conditional statements and loops- while, do-while, for loop	Analyse & implement Conditional statements and loops- while, do-while, for loop
UNIT - IV	To learn Storage classes, automatic variable, external variables, library functions	1
UNIT - V	To learn Pointers, Fundamentals, Arrays and pointers, passing functions to other functions.	<b>v</b> 1

NAME OF THE PAPER: DATA BASE MANAGEMENT SYSTEM

SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
	To learn Introduction to Databases	Analyse & implement
	and Transactions, Data Models,	Introduction to Databases and
UNIT - I	Database Design, ER Diagram and	Transactions, Data Models,
	UML	Database Design, ER Diagram
		and UML
	To learn Relational Database Model,	Analyse & implement Relational
UNIT - II	Relational Algebra and Calculus	Database Model, Relational
		Algebra and Calculus
	To learn Constraints, Views,	Analyse & implement Constraints
UNIT -III	Sequential Query Language,	, Views, Sequential Query
	Aggregate Functions	Language, Aggregate Functions
	To learn Transaction Management	Analyse & implement Transaction
UNIT - IV	and Concurrency, ACID Property	Management and Concurrency,
		ACID Property
UNIT - V	To learn Beginning with PL/SQL,	Analyse & implement Beginning
	Identifiers and Keywords, Operators,	with PL/SQL, Identifiers and
	Exception Handling	Keywords, Operators, Exception
		Handling

NAME OF THE COURSE /SUBJECT/PAPER: CORE JAVA

SEM: IV

SEM: III

CVI I ADUC	ODIECTIVES	OUTCOME
SYLLABUS	OBJECTIVES	OUTCOME
(UNIT WISE)		
UNIT - I	To learn history, architecture & its	Analyse & implement history,
	components of java, JVM, Data	architecture & its components of
	types, different Operators in Java	java, JVM, Data types, different
		Operators in Java
UNIT - II	To learn control flow statements,	Analyse & implement control
	Garbage collection , Method	flow statements, Garbage
	Overloading & Method Overriding	collection, Method overloading
		& Method Overriding
UNIT -III	To learn Inheritance, Interfaces,	Analyse and implement
	Abstract class, Packages	Inheritance, Interfaces, Abstract
		class, Packages
UNIT - IV	To learn Enumerations, Arrays,	Analyse and implement
	Multithreading, Exceptions, Byte	Enumerations, Arrays,
	Streams	Multithreading, Exceptions,
		Byte Streams
UNIT - V	To learn Event Handling, Windows	Analyse and implement Event
	Fundamentals, AWT, Layout	Handling, Windows
	Managers	Fundamentals, AWT, Layout
		Managers