



A P S COLLEGE OF ARTS AND SCIENCE

N .R COLONY, BANGALORE -19

DEPARTMENT OF POLITICAL SCIENCE

PROGRAMME LEARNING OUTCOMES IN POLITICAL SCIENCE - 2022 - 23

- At the end of the successful completion of the course, the students will be able to acquired main knowledge.
- Study and analyses political contexts from critical and constructive prospective.
- Have a better understanding of the working of various political institutions including decentralized institution state legislature and parliament and relate this functioning to the greater because of nation building as a responsible citizen.
- Assess how global national and regional development affects polity and society.
- To gain critical thinking and develop the ability to make logical inferences about socio-economic and political issues, on the basis of comparative and contemporary political discourses in India.
- Contemplate about national and international issues involving states having different political ideologies and historical context.
- Pursue higher education such as post graduate studies and researching political science and in other interdisciplinary areas to provide qualitative insights to create a better world.

Principal

APS College of Arts & Science
N.R. Colony, Bangalore-560 019.



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DEPARTMENT OF POLITICAL SCIENCE - 2022 - 23

I sem B.A Paper: DSC-1 Basic concepts of Political Science

LEARNING OUTCOME:

At the end of the course of the students shall understand-

- Political Science, Theoretically and will gain knowledge to explain and analyze Politics at large.
- The dynamics of Politics.
- To inculcate the Democratic spirit.

I sem B.A Paper: DSC-2 Political Theory

LEARNING OUTCOMES:

At the end of the course the students shall understand –

- The nature and relevance of political theory.
- The different concepts like Liberty, Equality, Justice and Rights.
- To reflect upon some of the important debates in Political Theory.


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II sem B.A Paper: DSC-3

Western Political Thought

Learning Outcomes:

At the end of the course the students shall understand-

And get an introduction to the Schools of Political Thought and Theory making in the West.

And introduce the richness and variations in the political perceptions of Western Thinkers.

And familiarize themselves to the Thought and Theory of Western Philosophy.

II sem B.A Paper: DSC-4

Indian National Movement And Constitutional Development

Learning Outcome:

At the end of the course the students shall-

- Understand how the colonial rule was over thrown by the Indian nationalists.

Appreciate the ideals and values of Gandhi that resulted in freedom.

Examine the problem of Independent India and the role played by great leaders in solving them.


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III sem B.A Paper: DSC-5

INDIAN GOVERNMENT AND POLITICS

Learning Outcome: At the end of the course the students shall-

- Learn how the governments both at the union as well state level operates and what are its challenges.
- Understand the characteristics of power structures in India and the response of the political parties to the socio-political dynamics.
- Measure and understand the effects of judicial decisions on policy making and social development in India.

III sem B.A Paper: DSC-6

PARLIAMENTARY PROCEDURES IN INDIA

Learning Outcome:

At the end of the course the students shall-

- Aim at understanding the procedural aspects of parliamentary system of governments.
- Learn about the privileges of people's representatives and match it with their performance.
- Understand the working of committees, budgetary aspects and deliberative mechanism within the parliament.


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IV sem B.A Paper: DSC-7

ANCIENT INDIAN POLITICAL IDEAS AND INSTITUTIONS

Learning Outcome: At the end of the course the students shall-

- Reflection the native concepts like Dharma, Rajadharma, Nyaya, Viveka etc., in the light of their modern connotations.
- Understand the role of texts and stories in the Indian context by reflecting upon our own experiences.
- Revisit our own socio-political structures through the textual and non-textual sources from the early Indian period in order to quell the European representation of Indian Society and heritage.

IV sem B.A Paper: DSC-8

MODERN POLITICAL ANALYSIS

Learning Outcome:

At the end of the course the students shall-

- Understand the key concepts of Political Institutional working and science within them.
- Be familiar with the Phenomenon of politics and various explanations relating to the influences that mould the decision making process.
- Help the students to visualize the working of political institutions and the process of decision making through diagrammatic presentations.

IV sem

Course Title: CONSTITUTION OF INDIA

Ability Enhancement Compulsory Courses(AECC) III Sem B.Com/BBA and IV Sem BA/B.SC/BCA/BHM/BSW and other Courses

Learning Outcomes:

After completing this course students will be able to-

- Understand the philosophy of the Constitution and its structure.
- Measure the powers and functions of various offices under the Constitution.
- Appreciate the role of Constitution in a Democracy


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V sem B.A Paper 5.1(NON NEP)

Public Administration

Co.1-Explaining the nature, scope and important of public administration, private and public administrative

Co 2-Analysing the major concepts in public administrative

Co.3 Traring the challenges in the discipline of public administrative like new public administrative, comparative public administrative and development administrative

Co.4 Understanding the concept of personnel administrative

Co.5:- Examining the institutions of financial administrative.

V sem B.A Paper 5.2(NON NEP)

International Politics

1. To understand the nature, scope and importance of International Politics.
2. To analyze the theories of International Politics. 2
3. To understand the concept of National Power and Diplomacy.
4. To appreciate the features and relevance of Foreign Policy.
5. To understand International Law and Human Rights.
6. To analyze Balance of power, Collective security, Arms control and disarmament.


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VI sem B.A Paper 6.1(NON NEP)

Advanced Public Administration

- To understand about the Financial Administration in India, Student will thought about Budget, Revenue, Expenditure, Deficit, Inflation and Parliamentary control over Financial Administration.
- To understand about the responsibility, accountability, and responsiveness about the administration.
- To know about the Administrative power's like Administrative Adjudication and Delegated Legislation.
- To develop the better understanding of theoretical as well as practical aspects of Comparative public administration, Development Public Administration, New public administration, New public management it will be taught concepts, approaches, administrative system of different national setting.
- To get the knowledge about the good governance.

VI sem B.A Paper 6.2(NON NEP)

International organization and foreign's polices

Co.1:- To analyse the evolution growth of Indian organization.

Co.2:- To understand UNO: - Achievements and short comings.

Co.3:- To appreciate and understand major issues of the world -WTO, A.SEAN and SAARC.

Co.4:-To appreciate the foreign policies of U.K, Russia and China.

Co.5:-To learn about Indian foreign policy.


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Department of Economics - UG

BA ECONOMICS , NEP-2022-23

Semester-I

DSC – 1 Economic Analysis -I

Course Outcomes:

By the end of the course the student will be able to:

- i. Identify the facets of an economic problem.
- ii. Learn basic economic concepts and terms.
- iii. Explain the operation of a market system;
- iv. Analyse the production and cost relationships of a business firm;
- v. Evaluate the pricing decisions under different market structures; and
- vi. Use basic cost-benefit calculations as a means of decision making (i.e., thinking like an economist)

DSC -2 Contemporary Indian Economy

Course Outcomes (COs):

At the end of the course the student should be able to:

- i. Understand the current problems of Indian Economy
- ii. Identify the factors contributing to the recent growth of the Indian economy
- iii. Evaluate impact of LPG policies on economic growth in India
- iv. Analyse the sector specific policies adopted for achieving the aspirational goals v. Review various economic policies adopted

OEC 1.3.2 Indian Economy Prior to Economic Reforms (OEC)

Course Outcomes (COs):

At the end of the course the student should be able to:

- i. Trace the evolution of Indian Economy
- ii. Identify the structural features and constraints of the Indian economy
- iii. Evaluate planning models and strategy adopted in India
- iv. Analyse the sector specific problems and contributions towards overall economic growth
- v. Review various economic policies adopted


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SEMESTER-II

DSC- 3 Economic Analysis - II

Course Outcomes (COs):

At the end of the course the student should be able to:

1. Understand the operation of the overall economic system;
2. Calculate national income and related aggregates
3. Explain the relationship between macroeconomic aggregates;
4. Analyse the nature of business cycles and policies towards controlling them;
5. Evaluate the macroeconomic policies for solving major problems like poverty and unemployment

DSC-4 Karnataka Economy

Course Outcomes (COs):

At the end of the course the student should be able to:

1. Understand the nature of economic growth and problems of Karnataka state.
2. Explain the process of structural growth in Karnataka economy;
3. Evaluate the policies and programmes undertaken by the Govt. of Karnataka for bringing about socio-economic development

OEC 2.3.1 Contemporary Indian Economy

Course Outcomes (COs):

At the end of the course the student should be able to:

- i. Understand the current problems of Indian Economy
- ii. Identify the factors contributing to the recent growth of the Indian economy
- iii. Evaluate impact of LPG policies on economic growth in India
- iv. Analyze the sector specific policies adopted for achieving the aspirational goals
- v. Review various economic policies adopted


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SEMESTER-III

DSC – 5 Microeconomics

Course Outcomes (COs):

After successfully completing the course, the student will be able to:

1. Understand introductory economic concepts.
2. Recognize basic supply and demand analysis.
3. Recognize the structure and the role of costs in the economy.
4. Describe, using graphs, the various market models perfect competition, monopoly, monopolistic competition, and oligopoly.
5. Explain how equilibrium is achieved in the various market models.
6. Identify problem areas in the economy, and possible solutions, using the analytical tools developed in the course.

DSC-6 Agriculture Economics

Course Outcomes (COs):

After completing the course, the student will be able to:

- i. Acquire knowledge of the role of agriculture in economic development
- ii. Acquire the theoretical and application knowledge of agricultural growth and development
- iii. To enable the students to understand the Strategy of Agricultural Development in India,
- iv. To make the students aware of institutional and non-institutional sources of agricultural Finance

OE-3.3.1 Rural Economics

Course Outcomes (COs):

After the successful completion of the course, the student will be able to:

- i. To Understand the basics of rural development,
- ii. To study the characteristics, problems, and programmes of rural redevelopment
- iii. To study the trends and patterns of economic activities in rural areas
- iv. To study the role of infrastructural facilities and governance in rural development
- v. To enable the students to know about the significance of rural enterprises and agricultural allied activities.



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SEMESTER-IV

DSC-7 Macro Economics

Course Outcomes (COs):

After the successful completion of the course, the student will be able to:

- i. Acquire knowledge on the circular flow of income in two sectors, three and four-sector model
- ii. Understand and learn the calculation of national income
- iii. Appreciate the classical and Keynesian theory of Employment
- iv. Understand the concepts of multiplier and accelerator and learning the simple Calculation on the working of Multiplier and Accelerator
- v. Acquire knowledge of the determinants of the Investment function

DSC-8 Monetary Economics

Course Outcomes (COs):

After the successful completion of the course, the student will be able to:

- i. Acquire knowledge of the supply and demand of Money
- ii. Understand and interest in determination theories.
- iii. Appreciate the Implications for Monetary Management
- iv. Understand the relationship between inflation and unemployment
- v. Acquire knowledge of the working of business cycles


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Non- NEP

SEMESTER-V

Paper – 5 Indian Economics

Course learning objectives:

- i. To enable the students to have an overview of the contemporary Indian economy.
- ii. To enable the students to understand the structural transformation that the Indian economy has undergone under reform.
- iii. To enable the students to understand the issues in agriculture, industry and services.

Course outcomes:

- i. Students will know the Indian Economy during the Pre-British rule, British Rule and at the time of India's Independence
- ii. Critical understanding of the impact of reforms on agriculture, industry and services
- iii. Understand the Importance and Role of Services Sector in India's economic development

Paper – 6 Economics for Infrastructure

Course learning objectives:

To understand the Importance of transportation infrastructure as a tool of economic development

To focus on understanding the key issues relating to Socio economic infrastructure

To learn about the infrastructure base in India

Course Outcomes:

- i. Good acquaintance with the concepts, and issues in Economics for infrastructure
- ii. Understanding the Role and Importance of Infrastructure in Economic development
- iii. Acquaintance with the economics of infrastructure with respect to transport, energy and social infrastructure
- iv. Understand the infrastructure base of India


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SEMESTER-VI

Paper – 7 international trade theory & policy

Course Learning Objectives:

- i. To enable the students to understand the fundamentals of International Trade
- ii. To enable students to comprehend the international trade theories and international monetary system.
- iii. To focus on understanding the terms of trade and commercial policy
- iv. To learn about foreign exchange and balance of payments

Course Outcomes:

- i. Good acquaintance with the concepts, and theories of international trade
- ii. Understanding the Importance of international trade
- iii. Acquaintance with the foreign exchange and balance of payments
- iv. Understanding the origin, structure and function of International monetary institutions and India's relation with them


Paper – 8 Human resource management

Course Learning Objectives:

- i. To enable the students to understand the fundamentals of Human Resource Management
- ii. To familiarize the students about the vital aspects of HRM
- iii. To enable students to understand functions of HRP
- iv. To learn about significance of appraisal

Course Outcomes:

- i. Good acquaintance with the fundamentals of HRM
- ii. Understanding the vital aspects of HRP
- iii. Acquaintance with the need and significance of Appraisal
- iv. Understanding the difference between IQ and EQ as well as need of the Time Management and Stress Management


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Department of Kannada
Programme Specific outcomes of B.A., B.Sc., and B.C.A.,
Language Kannada and B.A., Optional Kannada

- PSO1. A student who has taken admission into this programme of B.A, B.Sc., and B.C.A., with language Kannada as specific subject of study is expected to target on programme outcomes
- PSO2. Basic knowledge of Kannada as a language
- PSO3. Major knowledge of Kannada as a literature
- PSO4. Basic knowledge of Kannada Grammar
- PSO5. Critical study in Kannada literary studies
- PSO6. Relation between pleasure of literature and real life
- PSO7. Creating an interest in Kannada Literature
- PSO8. Availing job opportunities in translation, transformation and media
- PSO9. Ability of creativity to deal with Research in Kannada Literature
- PSO10. Imbuing the literary research attitude.
- PSO11. Creating an untest to join Editing, Journalism, Social worker and School teacher.

Course Outcomes for B.A., BSc., and B.C.A., (I, II, III and IV Semester) Language Kannada Students at the end of the course able

- CO1. To unlock the communicator in the, by using regional language Kannada appropriately and with confidence for further studies
- CO2. To use language as indispensable tool of Communication
- CO3. To obtain Knowledge of Fundamental rights and duties of citizen, structure and functions.
- CO4. To obtained good information on environmental science, resource and management.
- CO5. To analyse the ways in which the Natural Environments impact the society.
- CO6. To understand and interpret the poems, prose, essay and short stories.
- CO7. To learn Interview techniques.
- CO8. To write Resume, Letters and News report.


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Course Outcomes for B.A., Optional Kannada

B.A., 1st & 2nd Semester

* Paper-1 Sahitya Charitre – Parikalpanegalu

* Paper-2 Hosagannada Sahithya Charitre

CO1. Introduction to basic concept of Kannada Literature

CO2. Understanding in brief the knowledge of Halagannada

CO3. Implementing the literary approach in the students

CO4. Introduction to the various literature methods in students

CO5. Developing the Kannada literature attitude among students

B.A., 3rd & 4th Semester

* Paper -3 Nadugannada Kavyagalu

* Paper-4 Bharathiya Kavyamimamse and Paschatya Kavyamimamse

CO1. A tool that can used to teach many literary skills

CO2. Poetry often contains words that rhymes for effect

CO3. Students can learn about phonics and letters sounds by listening for locating rhyming words.

CO4. A poem can be used to learn sentence structure, parts of speech and many grammar skills.

CO5. Indian poetry is a soul of literature.

CO6. It gives pleasure for the readers

CO7. The students know about the roles of the grammar, syntax and vocabulary

B.A., 5th Semester

* Paper – 5 Halagannadagadya

* Paper – 6 Shabdamanidarpana

CO1. The main aim of old prose is to develop the language ability of the students

CO2. Old prose lesson is the best way to make learners acquire an integrated skills.

CO3. The basic skills of learning language namely listening, speaking, reading and writing.

CO4. To understand the passage and the grasping its meaning.

CO5. Grammar skills are useful in every aspect of life from education to leadership and social life to employment of opportunity.

CO6. Grammar is important because it provides information that helps the student's comprehensions

CO7. To help student to understand the communicative importance of grammars.

B.A., 6th Semester

* Paper-7 Language and society

Paper-8 Comparative studies in drama and autobiography

CO1. Language is basically a system of communication where sound are sings convey objects, action and index.

CO2. Strong language skills in education consist of listening, speaking, reading and writing

CO3. Understand the key drives in Language variation and change in particular social factors such a gender, ethnicity

CO4. The major aim of comparative study is to identify similarities and difference between social entities

CO5. Comparative study seeks to compare and contrast cultures, societies and institutions.

CO6. Students develop to comparative studies in folklore area

CO7. The study helps students to improve the education in their home country.

CO8. Comparative studies helps to students to acquire better understanding of education system.



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**Syllabus for the Undergraduate Degree Program
2022-23**

IV Semester

GENERIC ENGLISH/L2

**B.Sc./B.C. A / B.Sc. (FAD) / B.V. A and other courses coming
under Faculty of Science**

Starting year of implementation: 2022-23

Discipline/Subject: **GENERIC ENGLISH /L2**

Name of the Degree Program: **B.Sc./B.C. A / B.Sc. (FAD) / B.V. A and other courses
coming under Faculty of Science**

Total Credits for the Program: 03

Teaching hours per week: 4

TITLE OF THE COURSE: GENERIC ENGLISH – L2		
Number of Theory Credits	Number of hours per week	Number of lecture hours/semester
03	04	50/56

COURSE OBJECTIVES

- 1) To enhance the students' creative, interpretative and critical thinking
- 2) To equip the students to communicate confidently and effectively
- 3) To prepare for various interviews and professional contexts
- 4) To build persuasive and creative social media writing skills
- 5) To develop analytical and evaluative skills
- 6) To train students to identify and understand regional and global contexts and ethical frameworks in texts and narratives
- 7) To enable students for self-expression

COURSE OUTCOMES

By the end of the course the students will have

- 1) Acquired creative, interpretative and critical thinking
- 2) Skills to communicate confidently and effectively
- 3) Obtained persuasive and creative social media writing skills
- 4) Developed analytical and evaluative skills
- 5) Learnt to identify and understand social contexts and ethical frameworks in the texts
- 6) Ability to articulate their views with clarity and confidence
- 7) Eligibility to take up jobs such as content writing, journalism and such other jobs with proficiency in English


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**ABILITY ENHANCEMENT COMPULSORY COURSE LANGUAGE (AECC) -
L2 - GENERIC ENGLISH**

Course Outcomes:

By the end of the program the students will

1. Acquire the LSRW (Listening, Speaking, Reading, Writing) skills
2. Learn to appreciate literary art
3. Obtain the knowledge of literary devices and genres
4. Acquire the skills of creativity to express one's experiences
5. Know how to use digital learning tools
6. Be aware of their social responsibilities
7. Develop their ability as critical readers and writers
8. Increase their reading speed
9. Be able to give presentations
10. Increase their analytical skills.



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**Syllabus for the Undergraduate Degree Program
2022-23**

**III Semester
Generic English/L2
B.A./B.S.W./ B.A.(Music) and other Courses
coming under Faculty of Arts.**

Starting year of implementation: 2022-23

Discipline/Subject: GENERIC ENGLISH - L2

**Name of the Degree Program: B.A./B.S.W./ B.A.(Music) and other Courses
coming under Faculty of Arts.**

Total Credits for the Program: 03

Teaching hour per week: 04

Title of the Course: GENERIC ENGLISH - L2		
Number of Theory Credits	Number of hours per week	Number of lecture hours/semester
03	04	50/56

COURSE OBJECTIVES

1. To enhance LSRW (Listening, Speaking, Reading, Writing) skills
2. To develop interpersonal communicative skills
3. To augment presentation skills
4. To critically analyze, interpret and appreciate literary texts
5. To sensitize about social, cultural, religious and ethnic diversities
6. To enable employability in emerging sectors such as – content writers, interpreters, translators, transcribers
7. To facilitate preparation for competitive examinations - UPSC/KPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.

COURSE OUTCOMES

At the end of the course the students will have

1. Acquired enhanced LSRW (Listening, Speaking, Reading, Writing) skills
2. Equipped themselves with interpersonal communication skills
3. Augmented presentation and analytical skills
4. Ability to critically analyse, interpret and appreciate literary texts
5. An awareness of social, cultural, religious and ethnic diversities
6. Facilitated employability in emerging sectors such as – content writers, interpreters, translators, transcribers
7. Acquired language skills for competitive examinations - UPSC/KPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.


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Syllabus for the Undergraduate Degree Program

2022-23

IV Semester

Generic English/L2

**B.A./B.S.W./ B.A.(Music) and other Courses
coming under Faculty of Arts.**

Starting year of implementation: 2022-23

Discipline/Subject: GENERIC ENGLISH /L2

**Name of the Degree Program: B.A./B.S.W./ B.A.(Music) and other Courses
coming under Faculty of Arts.**

Total Credits for the Program: 03

Teaching hours per week: 4

TITLE OF THE COURSE: GENERIC ENGLISH – L2		
Number of Theory Credits	Number of hours per week	Number of lecture hours/semester
03	04	50/56


COURSE OBJECTIVES

- 1) To enhance the students' creative, interpretative and critical thinking
- 2) To equip the students to communicate confidently and effectively
- 3) To prepare for various interviews and professional contexts
- 4) To build persuasive and creative social media writing skills
- 5) To develop analytical and evaluative skills
- 6) To train students to identify and understand regional and global contexts and ethical frameworks in texts and narratives
- 7) To enable students for self-expression

COURSE OUTCOMES

By the end of the course the students will have

- 1) Acquired creative, interpretative and critical thinking
- 2) Skills to communicate confidently and effectively
- 3) Obtained persuasive and creative social media writing skills
- 4) Developed analytical and evaluative skills
- 5) Learnt to identify and understand social contexts and ethical frameworks in the texts
- 6) Ability to articulate their views with clarity and confidence
- 7) Eligibility to take up jobs such as content writing, journalism and such other jobs with proficiency in English


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III Sem B. CA

COURSE OBJECTIVES

1. To enhance LSRW (Listening, Speaking, Reading, Writing) skills
2. To develop interpersonal communicative skills
3. To augment presentation skills
4. To critically analyze, interpret and appreciate literary texts
5. To sensitize about social, cultural, religious and ethnic diversities
6. To enable employability in emerging sectors such as – content writers, interpreters, translators, transcribers
7. To facilitate preparation for competitive examinations – UPSC/KPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.

COURSE OUTCOMES

At the end of the course, the students will have

1. Acquired enhanced LSRW (Listening, Speaking, Reading, Writing) skills
2. Equipped themselves with interpersonal communication skills
3. Augmented presentation and analytical skills
4. Ability to critically analyze, interpret and appreciate literary texts
5. An awareness of social, cultural, religious and ethnic diversities
6. Facilitated employability in emerging sectors such as – content writers, interpreters, translators, transcribers
7. Acquired language skills for competitive examinations – UPSC/KPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.


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ACHARYA PATHASALA COLLEGE OF ARTS AND SCIENCE

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AFFILIATED TO BENGALURU CITY UNIVERSITY NAAC ACCREDITED – B+ GRADE

DEPARTMENT OF PSYCHOLOGY

I SEMESTER (NEP):

PAPER – I: FOUNDATIONS OF PSYCHOLOGY – I

Learning Outcomes:

1. Students will understand the genesis of Psychology and its importance.
2. Students will gain basic knowledge about Psychology.
3. Students will understand the fundamental mental processes which are base for behaviour.
4. Students understand the Applications of Psychology in various fields.

OPEN ELECTIVE COURSE (OEC): PSYCHOLOGY OF HEALTH AND WELLBEING

Learning Outcomes:

1. Understanding the spectrum of health and illness for better health management.
2. Identifying stresses in one's life and how to manage them.
3. Understanding a variety of health announcing health protective and health compromising behaviours and to be able to know their application in illness management.

II SEMESTER (NEP):

PAPER II: FOUNDATION OF BEHAVIOUR

Course Objectives:

1. To understand the dynamics of emotions and motivation.
2. To understand theoretical concepts of Human Intelligence.
3. To analyse and relate the concepts of thinking, problem solving, reasoning and decision making to cognition.
4. To understand and classify the different types of Personality.

Course Outcomes:

After successful completion of the course students will be able to:

1. Evaluate and understand the different human emotions.
2. Critically evaluate and identify determinants of motivation.
3. Compare and contrast different theories of intelligence.
4. Differentiate the human personalities.


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III SEMESTER (NEP):

PAPER III: CHILD DEVELOPMENT

Learning Outcomes:

1. To understand the Physical, Cognitive and Language development.
2. To know about the role Emotional and Moral development.
3. To understand the genetic and chromosomal abnormalities.
4. To understand the different disorders faced by children in their growth period

IV SEMESTER (NEP):

PAPER IV: DEVELOPMENTAL PSYCHOLOGY

Learning Outcomes:

1. To understand and analyze the Physical, Cognitive and Psychosocial development.
2. To know about the vocational adjustment.
3. To understand the aging, the ageing process and facing the future.

VI SEMESTER (CBCS SYLLABUS):

PAPER VII: ORGANIZATIONAL PSYCHOLOGY

Course Objectives:

1. To provide insights into the historical development & key concepts of functioning of organizations.
2. To help students to understand the role of human factor in the contest of organizations & work Behavior & Management.
3. To help students understand the role of psychology in managing key areas of work the Recruitment, Training & Development.
4. To understand the meaning and theoretical foundations of I/O Psychology.
5. To develop an understanding of how the various theories and methods of I/O Psychology the real work settings.

Learning Outcomes:

1. Students will demonstrate a basic understanding of the mayor areas of organizational psychology.
2. Students will learn to apply organizational theory to specific organisational situations.

VI SEMESTER (CBCS SYLLABUS):

PAPER VIII: HEALTH PSYCHOLOGY

Course Objectives:

1. To deal with the health and well-being of individuals and the ways to sustain them.
2. To understand the relationship between psychological factors and physical health and learn how to enhance well-being.
3. To make awareness about of the stress and coping behavior of individuals in various life situations.

Learning Outcomes:

1. This paper will create awareness about the scope of health psychology and its role in achievement and maintenance of health.


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V SEMESTER (CBCS SYLLABUS):

PAPER V: PSYCHOLOGICAL DISORDERS

Course Objectives:

1. To differentiate between normal and 'abnormal' behaviour.
2. To understand main classificatory systems of psychological disorders.
3. To be aware of the different theoretical perspectives in understanding psychological disorders.
4. To understand signs and symptoms of different psychological disorders.
5. To provide an insight into criteria's for diagnosing of abnormal behaviour of varying severities.
6. To make the symptom picture more realistic and clearer by introducing case studies of various disorders

Learning Outcomes:

1. To be able to identify behaviours considered to be as abnormal based on intensity, duration, and frequency of occurrence of behaviour.
2. To be able to categorize disorders into different types based on clusters of signs and symptoms.
3. To be able to identify disorders which require definite referral for diagnosis and treatment purpose.

V SEMESTER (CBCS SYLLABUS):

PAPER VI: COUNSELLING PSYCHOLOGY

Course Objectives:

1. To develop an understanding of basic concepts, processes, and techniques of Counseling
2. To enable the student to explore the different theories of counseling psychology.
3. To enable the student to acquire sufficient knowledge about the assumptions and issues in the area of counseling.

Learning outcomes:

1. This paper will provide an overview and understanding of the counselling profession.
2. Understand and apply important skills and processes from a range of counselling approaches.



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BCA COURSE CO,PO AND PSO'S

Course: BCA104

PROGRAMME: Computer Application	COURSE: Digital Electronics
DEGREE:BCA	SEMESTER: 1 CREDITS: 2
COURSECODE: BCA 104 T	COURSE AREA/DOMAIN: NA
COURSE TYPE: Theory	CONTACT HOURS: 4 (weekly)

Course Basics;

Familiarity on some concepts like Numerals

Course Objectives

Aim is realizing various mechanisms.


Course Outcomes:

The Significant is,

- CO1: Theory of Digital intend and Computer Organization to provide an insight of how basic computer components are specified.
- CO2: Hardware machinery and their formation of blocks
- CO3: Boolean mathematical terms for design
- CO4: Different category of circuit were used
- CO5: Flip-Flops
- CO6: how different hardware components are related and work in coordination
- CO7: Computer buses and Secondary devices

Course: BCA104P

PROGRAMMES: Computer Application	COURSE: Digital Electronics
DEGREE:BCA	SEMESTER: 1 CREDITS: 1
COURSECODE: BCA104 P	COURSE AREA/DOMAIN: NA


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COURSE TYPE: Practicals	HOURS: 3hr (weekly)
CORRESPONDING LABCOURSE CODE	(IFANY):

Course: BCA203T

PROGRAMME: Computer Application	COURSE: Data Structures
DEGREE:BCA	SEMESTER: 2 CREDITS: 2
COURSECODE:BCA203T	COURSE AREA/DOMAIN: NA
COURSE TYPE: Theory	HOURS: 4 (weekly)

Course Basics:

Sound programming knowledge in C and algorithms.

Course Objectives

1. Notion of ADT & Recursive access on them
2. Tree data structures and how to balance them, for specific access needs
3. Understanding Graph representations, Event modeling, spatial and temporal relational data
4. Choose a Data structure, a set of access methods and determine their asymptotic efficiency

Course Outcomes

- CO1: impact on algorithms, program design and program performance.
 CO2: Design, realize, and use advanced ADTs.
 CO3: differences between hardware and software.
 CO4: Step-wise representation of a resolution for a given crisis.
 CO5: Improve upon a solution to a problem
 CO6: Design, develop and test programs written in 'C'

Course: BCA203P

PROGRAMME: Computer Application	COURSE: Data Structures Lab
DEGREE:BCA	SEMESTER: 2 CREDITS: 1
COURSECODE: BCA 203 P	COURSE AREA/DOMAIN: NA
COURSE TYPE: Practical	CONTACT HOURS: 3 (weekly)
CORRESPONDING LABCOURSE CODE	(IFANY): BCA203P

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Course: BCA 204 Data Base Management System

PROGRAMME: Computer Application	COURSE: Data Structures Lab
DEGREE: BCA	SEMESTER: 2 CREDITS: 1
COURSECODE: BCA 204T	COURSE AREA/DOMAIN: NA
COURSE TYPE: Theory	CONTACT HOURS: 3 (weekly)

Course pre-requisites:

Fundamental concepts about data and basic programming knowledge.

Course Objectives

1. Performs SQL Operations.
2. It concludes with an overview of transaction management and introduction to advanced and non-relational databases.

Course Outcomes

Capable to do,

CO1: applications of database systems.

CO2: Entity Relationship model can be developed.

CO3: Able to construct cumulative queries in Relational mathematical operations.

CO4: Database normalization principles.

CO5: To achieve CRUD operations on database.

(Create, Retrieve, Update, Delete)

CO6: Principles of database transaction management, database recovery, security.

Course: BCA 204P Database Lab (Oracle)

PROGRAMME: Computer Application	COURSE: Data Structures Lab
DEGREE: BCA	SEMESTER: 2 CREDITS: 1
Lab COURSECODE: BCA 204P	COURSE AREA/DOMAIN: NA
COURSE TYPE: Practical	CONTACT HOURS: 3 (weekly)

Course: BCA303T Object Oriented Programming using C++

PROGRAMME: Computer Application	COURSE: Object Oriented Programming using C++
DEGREE: BCA	SEMESTER: 3 CREDITS: 2
COURSECODE: BCA 303 T	COURSE AREA/DOMAIN: NA

COURSE TYPE: Theory	CONTACT HOURS: 4 (weekly)
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Course pre-requisites

Fundamental programming knowledge about C language.

Course Objectives

Basic realization of algorithms and procedural programming language.

Course Outcomes

- CO1: Essential constructs of OOP.
- CO2: Flow charts with UML diagrams.
- CO3: Different forms of OO Implementation.
- CO4: OOPS helps to perform overloading operations.
- CO5: Design and realize Event handling methods of programs

Course: BCA 303T -Operating System

PROGRAMME: Computer Application	COURSE: OOP in C++ Lab
DEGREE:BCA	SEMESTER: 3 CREDITS: 3
COURSECODE: BCA 303 T	COURSE AREA/DOMAIN: NA
COURSE TYPE: Theory	CONTACT HOURS: 5hr (weekly)

Course Basics:

Knowledge of working principle of computer. Familiarity with working with WINDOWS operating system.

Course Objectives

Comprehend the,

1. Services provided by the design OS.
2. Organize and association of the file system.
3. Different approaches to memory management.
4. Data structure algorithm used to control deadlock.
5. Disk scheduling, protection and security.

Course Outcomes

- CO1: Analyze the concepts of processes in operating system and instance of the development of processor for a given problem insistence.
- CO2: Understand the progress of operating system.
- CO3: Identify the dead lock situation and provide appropriate solution so that protection and security of the operating system is also maintained.
- CO4: It analyze the concepts of memory Management, process management, Scheduling.

Course: BCA 304T - Financial Accounting & Management

PROGRAMME: Computer Application	COURSE: Financial Accounting & Management
DEGREE:BCA	SEMESTER: 3 CREDITS:2
COURSECODE: BCA 304 T	COURSE AREA/DOMAIN: NA
COURSE TYPE: Theory	CONTACT HOURS: 4hr (weekly)

Course pre-requisites:

Fundamental concepts about account.

Course Objectives

This course afford strong foundation for other accounting courses. The course will intensify knowledge on all the basic components by using double entry book keeping perspective.

Course Outcomes

The students will competent to:

CO1: Define fundamental accounting concepts, Conventions & terminologies.

CO2: Describe the importance, functions & objectives of books of entry Final accounts.

CO3: Prepare ledger creation, Passing Vouchers. Displaying Day book, Profit & Loss, Balance Sheet.

CO4: To resolve the errors located in books of entry & subsidiary books.

PROGRAMME: Computer Application	DEGREE:BCA
COURSE: Financial Accounting & Management	Semester : 3 CREDITS: 1
COURSECODE: BCA 304P	COURSE TYPE: Theory
COURSE AREA/DOMAIN:NA	CONTACT HOURS: 4 (weekly)
CORRESPONDING LABCOURSE CODE (IFANY): BCA 304P	LABCOURSE NAME: TALLY Lab

Course: BCA 403 T

PROGRAMMES: Computer Application	DEGREE:BCA
COURSE: Visual Programming	Semester : 4 CREDITS: 2
COURSECODE: BCA 403T	COURSE TYPE: Theory
COURSE AREA/DOMAIN:NA	HOURS: 4 (weekly)

Course pre-requisites:

Knowledge of Coding and necessary user interface design.

Course Objectives

1. Perception of Visual Basic programming
2. How to design a given problem
3. Visual Basic as a programming language
4. How to implement data structures and functions available in Visual Basic to solve problems
5. To explore the Microsoft Foundation Class programming concepts

Course Outcomes

After this course, the student will be able to

CO1. Examine a given problem and implement an step-wise representation to work out the obstacle

CO2. Build up a solution for the given crisis

CO3. Implement the Visual Basic language constructs in the right way

CO4. Design, enlarge and test Applications written in Visual Basic.

CO5: Implement and innovate information using the basic instrument things.

CO6: Develop the practice of writing windows applications through Object Oriented concepts

Course: BCA 404

PROGRAMME: Computer Application	DEGREE:BCA
COURSE: Unix and Shell Programming	SEMESTER: 4 CREDITS: 2
COURSECODE: BCA 404T	COURSE TYPE: Theory


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COURSE AREA/DOMAIN: Operating system	CONTACT HOURS: 4 (weekly)
CORRESPONDING LABCOURSE CODE: BCA404P	LABCOURSE NAME: Unix Lab

Course Basics

Basic Information on Operating System

Course Objectives

Basic Shell Commands

Course Outcomes:

Achievement of this course of action,

- CO1: Discuss the architecture, networking and basic commands of UNIX.
- CO2: Implement various file processing commands used in UNIX.
- CO3: Regular expression to perform pattern matching using
- CO4: Construct various shell scripts for simple applications.
- CO5: shell Programs can be run on vi editor.

Course: BCA501T - : Data Communication And Networks

PROGRAMME: Computer Application	COURSE TYPE: Theory
DEGREE : BCA	COURSE AREA/DOMAIN: NA
COURSE : Data Communication And Networks	CONTACT HOURS: 4 (weekly)
SEMESTER: 5	CORRESPONDING LABCOURSE CODE
CREDITS: 3	(IFANY): NA

Course pre-requisites:

Fundamental knowledge about analog and digital communication. Basic knowledge about computer network and communication.

Course Objectives

1. An introduction to the fundamental concepts on data communication and the design of networks.
2. To get familiarized with the basic protocols of computer networks and Networks Standards like LAN, MAC etc.

Course Outcomes

Completion of this course they can,

- CO1: Identify the different components in a Communication System and their respective roles.
- CO2: Describe the technical issues related to the local Area Networks
- CO3: Identify the common technologies available in establishing LAN infrastructure.
- CO4: Understand computer network basics, network architecture, TCP/IP and OSI reference models.
- CO5: Identify and understand various techniques and modes of transmission
- CO6: Describe data link protocols, multi-channel access protocols and IEEE 802 standards for LAN
- CO7: Describe routing and congestion in network layer with routing algorithms and classify IPV4 addressing scheme
- CO8: Discuss the elements and protocols of transport layer
- CO9: Understand network security and define various protocols such as FTP, HTTP, Telnet, DNS.
- CO10: Understand about Telephone network.
- CO11: Understand about Peer to peer communication, ARQ protocols, LAN, MAC and LAN Standards. Packet Switching Network

Methods for review:

1. Assignment

2. Internals

3. Criticism

Course: BCA 502 : Software Engineering

PROGRAMME: Computer Application	COURSE TYPE: Theory
DEGREE : BCA	COURSE AREA/DOMAIN: NA
COURSE : Software Engineering	CONTACT HOURS: 4 (weekly)
SEMESTER: 5	CORRESPONDING LABCOURSE CODE
CREDITS: 3	(IFANY): NA

Course pre-requisites:

Basic knowledge about Software Development life cycle.

Course Objectives

To develop an understanding of software engineering, software crisis, SDLC. Understanding the concept of software project planning – feasibility analysis, requirement analysis, SRS documents. Understand concept of Project Management along with software testing, maintenance, back-up..

Course Outcomes

- CO1: Evaluate and analyze the SDLC and basic architecture SRS documents.
- CO2: Help to understand the software design and coding techniques.
- CO3: Understand the software testing principles.
- CO4: Understand the concept project management.
- CO5: Identify various concepts of Advanced UML techniques.

Course: BCA503 T - : Computer Architecture

PROGRAMME: Computer Application	COURSE TYPE: Theory
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSE: Computer Architecture	CONTACT HOURS: 4 (weekly)
SEMESTER: 5	CORRESPONDING LABCOURSE CODE
CREDITS: 3	(IFANY): NA
COURSECODE: BCA 503T	LABCOURSE NAME: NA

Basics of Course: Knowing some basic concepts on electronics.

Course Objectives: Inner Knowledge on Computer Architecture

Course Outcomes

Completion of this course student can able to Emphasize,

- CO1: An insight of how basic computer components are specified.
- CO2: It gives emphasis on Circuits.
- CO3: Realization of different combinational/sequential circuits.
- CO4: Computer buses and information on peripherals.
- CO5: Memory hierarchy and design of primary memory and DMA.
- CO6: Digital components in organization


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- CO7: Data illustration and various binary codes.
- CO8: Design an elementary basic computer.
- CO9: Organization and architecture of central processing unit and IOP.

Methods of estimation:

1. Task
2. Internal
3. Response

Course: BCA 504 T Java Programming

PROGRAMME: Computer Application	DEGREE:BCA
COURSE: Visual Programming	Semester : 4 CREDITS: 2
COURSECODE: BCA 504 T	COURSE TYPE: Theory
COURSE AREA/DOMAIN:NA	CONTACT HOURS: 4 (weekly)
CORRESPONDING LABCOURSE CODE (IFANY): BCA 504 P	LABCOURSE NAME: Java Programming Lab

Course fundamentals:

Basic knowledge about C, C++ .

Course Objectives: Object oriented Designs using UML and Applet can be learn.

Course Outcome:

Knowledge help them to perform,

- CO1: Fundamental constructs of OOP.
- CO2: UML with skills to draw UML diagrams.
- CO3: Different forms of OO Implementation.
- CO4: Java problems are solved through OOPs
- CO5: Applet helps us to perform event handling functions .
- CO6: It can also achieve GUI
- CO7: To implement error handling techniques using exception handling

Methods of estimation:

1. Task
2. Internal
3. Response

Course: BCA 504 P

PROGRAMMES: Computer Application	DEGREE:BCA
COURSE: Java Programming Lab	Semester : 5 CREDITS: 2
COURSECODE: BCA 504 P	COURSE TYPE Practical
COURSE AREA/DOMAIN:NA	CONTACT HOURS: 3 (weekly)

Course : BCA 505 T

PROGRAMME: Computer Application	COURSE TYPE: Theory
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSE: Assembly Language And Microprocessor	CONTACT HOURS: 4 (weekly)
SEMESTER: 5	CORRESPONDING LABCOURSE CODE (IF ANY): BCA 505 P
CREDITS: 3	
COURSECODE: BCA 505T	LABCOURSE NAME: NA

Course Objective:

- To introduce students with the architecture and operation of typical microprocessors and Microcontrollers.
- To afford well-built for designing apps using microprocessors and microcontrollers.

Course Outcomes:

CO1: Perform simple optimizations by hand

CO2: The knowledge of how C/C++ constructs are translated to execute on hardware, simple hardware operations and interrupt handling are crucial building blocks for the Operating Systems and Computer Architecture courses.

CO3: Compare accepted standards and guidelines to select appropriate Microprocessor (8085 & 8086) and Microcontroller to meet specified performance requirements.

CO4: Analyze assembly language programs; select appropriate assemble into machine a cross assembler utility of a microprocessor and microcontroller.

Course: BCA601T

PROGRAMME: Computer Application	COURSE TYPE: Theory Of Computation
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSECODE: BCA 601T	CONTACT HOURS: 4 (weekly)
SEMESTER: 6	CREDITS: 3

Course Basics:

Facts about fundamental concepts of Mathematics

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PROGRAMME: Computer Application	COURSE TYPE: Theory
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSE: Assembly Language And Microprocessor	CONTACT HOURS: 4 (weekly)
SEMESTER: 5	CORRESPONDING LABCOURSE CODE (IF ANY):
CREDITS: 3	BCA 505 P
COURSECODE: BCA 505T	LABCOURSE NAME: NA

Course Objective:

- To introduce students with the architecture and operation of typical microprocessors and Microcontrollers.
- To afford well-built for designing apps using microprocessors and microcontrollers.

Course Outcomes:

CO1: Perform simple optimizations by hand

CO2: The knowledge of how C/C++ constructs are translated to execute on hardware, simple hardware operations and interrupt handling are crucial building blocks for the Operating Systems and Computer Architecture courses.

CO3: Compare accepted standards and guidelines to select appropriate Microprocessor (8085 &8086) and Microcontroller to meet specified performance requirements.

CO4: Analyze assembly language programs; select appropriate assemble into machine a cross assembler utility of a microprocessor and microcontroller.

Course: BCA601T

PROGRAMME: Computer Application	COURSE TYPE: Theory Of Computation
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSECODE: BCA 601T	CONTACT HOURS: 4 (weekly)
SEMESTER: 6	CREDITS: 3

Course Basics:

Facts about fundamental concepts of Mathematics

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Course Objectives:

- Introduction to finite automata, consistent terms and language.
- Push-down automata and framework-free languages.
- Selected advanced language theoretical topics, emphasis on technique.

Course Outcomes

- CO1: Common languages and predetermined automation.
 CO2: Master Context-free languages, and Turing recognizable Languages.
 CO3: Be uncovered to a large overview of the hypothetical basics of computer science.
 CO4: Be familiar with thinking methodically and intuitively for problem-solving situations in related areas of theory in computer science.
 CO5: Assessment definitions and notations for sets, relations and functions.
 CO6: Introduction to formal languages and Kleene's Theorem.
 CO7: Mathematical formal proofs including proof by induction and by contradiction.
 CO8: The recursive definitions of regular languages,
 CO9: Detailed knowledge and the relationship between regular expressions and finite automata.
 CO10: Non-deterministic
 CO11: Minimal finite automata in terms of equivalence classes of strings and associated Algorithm for finding minimal DFA.
 CO12: Pumping lemma for proving that languages are not regular.
 CO13: Context-free grammars and how to prove properties of context-free grammars, Pushdown automata.
 CO14: Application of the pumping lemma for CFL to demonstrate that a language is not context-free.
 CO15: Turing machines (deterministic and non-deterministic) and Church-Turing Thesis.

Course: BCA602 - System Programming

PROGRAMME: Computer Application	Course Type: Theory
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSE: System Programming	CONTACT HOURS: 4 (weekly)
SEMESTER: 6	CREDITS: 3
COURSECODE: BCA 602T	LABCOURSE NAME: NA

Course pre-requisites:

Some facts about data structures, super computer organization and structural design, operating system, and Programming skill.

Course Objectives

1. Learn basic concepts of operating systems and system software's.
2. Learn the functioning of the principal parts.

Course Outcomes

Appreciation about the,

- CO1: system programs like library functions, compiler, assembler, linker, loader, predictor and debugger.
 CO2: Describe a variety of concepts the assemblers and overall processors.
 CO3: various phase of compiler and compare its working with assembler.
 CO4: how linker and loader create an executable program from an object module created by assembler and compiler.
 CO5: various editors and debugging techniques.
 CO6: about assembly language.
 CO7: about Hypothetical machine structure.

Course: BCA603

PROGRAMME: Computer Application	COURSE: Cryptography
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSECODE: BCA 603T	HOURS: 4 (weekly)
SEMESTER: 6	CREDITS: 3

COURSE OBJECTIVES

1. To understand basics of Cryptography and Set of connections Security.
2. To be able to protected a message overanxious control by numerous.
3. To learn about how to maintain the secrecy, reliability and accessibility of a data.
4. To understand various protocols for network security to protect against the threats in the networks.

COURSE OUTCOMES:

After conclusion of the course,

CO1: Provide security of the data over the network.

CO2: Do research in the emerging areas of cryptography and set-up security.

CO3: Implement various networking protocols.

CO4: Protect any network from the threats in the world.

Course: BCA604 - Web Programmig

PROGRAMME: Computer Application	Course Type: Theory
DEGREE: BCA	COURSE AREA/DOMAIN: NA
COURSE: Web Programming	HOURS: 4 (weekly)
SEMESTER: 6	CORRESPONDING LABCOURSE CODE
CREDITS: 3	(IFANY): NA
COURSECODE: BCA 603T	LABCOURSE NAME: NA

Course Objective:

- Demonstrate competency in the use of common HTML code.
- Construct pages that meet the needs of an identified audience.
- Construct efficient file structure for web sites.
- Design electronic text and web pages that include the standard textual components needed on web pages.
- CSS sheet helps us to create styles of web creation .
- Understand the role of JavaScript in web page creation.
- Modify CSS and JavaScript for use on a web site.
- Understand the function of copyright in relationship to web design and coding.
- Utilize graphic design to enhance web pages.

Course Outcomes:

Course of action helps us to afford:


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CO1: Programming Environment – Establish and organize an Apache 2 server with PHP5 module, MySQL database and the tool PhpMyAdmin. (BS-CS I currency,)

CO2: Server-side - Write a large array of programs in PHP with some of the most important functionalities the language provides. (BS-CS I currency,)

CO3: MySQL - Use a MySQL database with PHP to create database applications. (BS- CS I currency,)

CO4: Client-side - Write HTML pages and use basic JavaScript code to enhance the pages. (BS- CS I currency,)

CO5: Advanced Client-side - Learn and use DHTML and AJAX. Learn the basics of JQuery. (BS- CS I currency,)

Security - Learn about the major vulnerabilities facing web sites and some simple ways to reduce their likelihood. (BS-CS E responsibility,)

Project - Write a complete market-ready database-driven website with PHP and JavaScript and go through the basic phases of the software life cycle (like project proposal, non- technical presentation (CEO), technical presentation (final presentation)). The project is done in groups of at least 2. (BS-CS F communication, MS-MEM A development,)

Course: BCA 605 P Project Work

PROGRAMME: Computer Application	DEGREE:BCA
COURSE: PROJECT WORK	Semester : 6 CREDITS: 1
COURSECODE: BCA 605 P	COURSE TYPE Practical
COURSE AREA/DOMAIN:NA	CONTACT HOURS: 8 (weekly)

Course Objectives

To learn languages to code frontage and backside of a software

- To initiate into the process of designing, coding and testing a software module.
- To develop a complete software module

Course Outcomes

Skill to apply Software Development Cycle to develop a software module.

CO1: Capability to use the technological, competence and modern engineering tools necessary for software development.

CO2: Develop a software product along with its complete documentation

Programme Specific Outcomes(PSO'S)

- To pursue the career in corporate sector can opt for MBA.
- Able to Work on Top Companies as a Software Developer, Testing, Web Designing.
- To work in public sector undertakings and Government organizations.
- For teaching in Schools and Colleges.

CA-CI3T: PYTHON PROGRAMMING

Python Programming is intended for software engineers, systems analysts, program managers and user support personnel who wish to learn the Python programming language. This Python for beginners training course leads the students from the basics of writing and running Python scripts to more advanced features such as file operations, regular expressions, working with binary data, and using the extensive functionality of Python modules. Extra emphasis is placed on features unique to Python, such as tuples, array slices, and output formatting. This course PYTHON PROGRAMMING is an essential part of any Computer-Science education. To master the fundamentals of writing Python scripts, learn core Python scripting elements such as variables and flow control structures, discover how to work with lists and sequence data, write Python functions to facilitate code reuse, use Python to read and write files, make their code robust by handling errors and exceptions properly, work with the Python standard library, explore Python's object-oriented features, search text using regular expressions and finally working with GUI (Graphical User Interfaces)

COURSE OBJECTIVES:

1. Learn Syntax and Semantics and create Functions in Python.
2. Handle Strings and Files in Python.
3. Understand Lists, Dictionaries and Regular expressions in Python.
4. Implement Object Oriented Programming concepts in Python.
5. Build Web Services and introduction to Network and Database Programming in Python.

Program Outcomes (POs) Level Proficiency assessed by		
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PROGRAM OUT COMES ARE ASSESSED: Program Outcomes (POs) Level Proficiency assessed by

PO1 Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems. 2 Presentation on real-world problems
PO2 Problem analysis: Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences
2 Assignments PO3 Design/development of solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
3 Assignments PO4 Conduct investigations of complex problems: Use research based knowledge and research methods including design of 3 Mini/Major Projects 85 Program Outcomes (POs) Level Proficiency assessed by experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
PO5 Modern tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations. 2 Mini/Major Projects
PO6 The engineer and society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice. - - -
PO7 Environment and sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
PO8 Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice. - - -
PO9 Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings. - - -
PO10 Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions. - -
PO11 Project management and finance: Demonstrate knowledge and understanding of the engineering and management principles and team, to manage projects and in multidisciplinary environments. 2
PO12 Life-long learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Course code and Name: - Computer Graphics

- 1 Implement basic concepts of computer graphics such as line and circle drawing.
- 2 Understand and Implement graphical transformations.
- 3 Apply mathematics and logic to develop computer programs for elementary graphics operations
- 4 Develop scientific and strategic approach to solve complex problems in the domain of computer graphics.
- 5 Apply the logic to develop animation and gaming programs.
- 6 Understand the concepts related to Computer Vision and Virtual reality.


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COURSE OBJECTIVES: Information technology course code- CA-C18T

- **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.
- **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.
- **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.
- **Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.
- **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.
- **Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
- **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.
- **Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.
- **Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
- **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.
- **Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Programme Outcomes (PO) – BCA

PO1: Obtain and affect data: the fundamental principles, concepts and methods in key areas of Computer Applications and multidisciplinary fields.

PO2: Problem Analysis: Ability to analyze real-time problems using various tools and techniques.

PO3: Design and Development: Ability to design and develop solutions to meet the preferred needs.

PO4: State-of-art Technologies: Skill to apply rising tools and technology.

PO5: Entrepreneurship and Innovation: Ability to provide sustainable and innovative solutions for real-time problems.

PO6: Communication and Team Building: Ability to demonstrate effective communication and interpersonal skills.

PO7: To provide thorough understanding of nature, scope and application of computer and computer languages

PO8: To develop interdisciplinary approach among the students

PROGRAMME: Computer application	Degree BCA
Course: Database Management System	Semester: 2 nd Credits:3
Course code: CA-C8T	Contact hourse: 4(weekly)
Course area/domain:	Course Type: Theory
Corresponding lab course code: CA-C10L	LAB course Name: DBMS Lab

COURSE OUTCOMES:

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1. CO1: Summarize the concepts of database objects; enforce integrity constraints on a database using RDBMS.
2. CO2: Use Structured Query Language (SQL) for database manipulation
3. CO3: Design simple database systems for some application to interact with databases
4. CO4: Implement normalization algorithms using database design theory for different applications
5. CO5: Analyze and implement transaction processing, concurrency control and database recovery protocols in databases.

Program outcomes:

1. The students will be able to determine the requirements of the real world database applications with some knowledge of engineering fundamentals to design conceptual schema.
2. Able to identify, formulate, review, and analyze real world problems to define the conceptual data base using the principles of mathematics and engineering sciences.
3. A Database designer can able to design a conceptual schema for understanding the Entities, Attributes and Relationships of the real world problem.
4. Moderately mapped as students can identify the changing trends in engineering knowledge by building a database for any application.
5. Understand data models to build any application software.
6. Able to write SQL queries with knowledge of mathematics to interact with the designed database
7. The Students can develop database applications with SQL to interact with the database.
8. A Database designer can choose appropriate procedure, data set and test cases to analyze data and build a valid database.
9. Able to use modern tools to interact with the database using basic SQL commands.
10. With the change of technologies students will be able to adopt themselves with different SQL versions.
11. Develop an application software using SQL commands.
12. Able to write SQL queries with knowledge stored procedures, triggers to interact with the designed database application.
13. Students will be able to classify different indexing schemes used in retrieval.
14. A Database designer can choose appropriate database connectivity to interact with a database.
15. With the change of technologies students will be able to adopt themselves with different SQL versions.
16. Students will be able to identify different normalization procedures used in database design
17. Students will be able to apply proper normalization for developing well-tuned database
18. With the change of normalization schemes students will be able to adopt themselves with different SQL.
19. Students will be able to describe transaction processing and related issues
20. Students gain competency in understanding different query processing & optimization
21. Students can able to choose appropriate concurrency control techniques and recovery protocols in database.
22. Design a serializable transaction of a database application.

ROGRAMME: Computer application	Degree BCA
Course: COMPUTER ARCHITECTURE	Semester: 2 nd Credits:3
Course code: CA-C6T	Contact hourse: 4(weekly)
Course area/domain:	Course Type: Theory

COURSE OUTCOMES:

CO1: Explain the computer organization components, instructions and addressing modes

CO2: Demonstrate arithmetic operations

CO3: Interpret the basic of MIPS implementation and pipelining

CO4: Outline the concept of parallelism and multi-core processor

CO5: Classify the memory technologies and I/O systems

Program outcomes:

- Identifies functionalities and computing resources of computer systems
- Identify the deficiencies and demonstrate the need of updating in the computer organization so that operation of computers.
- Understand the fundamentals of I/O communication and standard interface. Hence apply the same to solve problem related to communication.
- Able to design different methods of communication with I/O devices as per the requirements.
- Identify the deficiencies and demonstrate the need of updating for the I/O communication to overcome the deficiency.
- Understand the fundamentals of arithmetic and logic unit and apply the same in designing the arithmetic unit and logical unit.
- Able to explore design alternatives in designing arithmetic and logical systems as per the requirement.
- Understand the arithmetic and logical operations.
- Understand the fundamentals of processing unit and embedded systems and apply the same to explain the working of embedded systems.
- Identifies functionalities and computing resources of embedded computer systems.

PROGRAMME: Computer application Degree BCA

Course: OPERATING SYSTEMS Semester: 2nd Credits:3

Course code: CA-CIIT Contact hours: 4(weekly)

Course area/domain: Course Type: Theory

COURSE OUTCOMES:

CO1: Understand the concepts of OS, the basic principles used in the design of modern Operating system and process.

CO2: Understand the concepts of threads and mechanisms for synchronization

CO3: Understand the concepts related to deadlock and memory management.

CO4: Understand the concepts of virtual memory management, file system.

CO5: Understand the concepts of secondary storage structure, protection and case study of Linux operating system.

Program outcomes:

- Slightly mapped as students gain the knowledge on basics of operating system.
- Moderately mapped as students apply the concepts of operating system learnt in continuing Professional development.
- Moderately mapped as acquired knowledge helps students to provide novel approaches to the design of operating system
- Slightly mapped as students can use mathematical algorithmic knowledge to analyze process Scheduling and synchronization problems.
- Moderately mapped as students can use the concepts of threads and process synchronization for the design of operating system
- Slightly mapped as problem analysis is necessary to find solutions for the problems on deadlock.
- Moderately mapped as students can use the concepts of deadlock and memory management for the design of operating system.
- Students will be able to identify different normalization procedures used in database Design
- Moderately mapped as students can use the features of Linux for the design of operating system.
- Moderately mapped as students apply the concepts of secondary storage structure and Protection learnt in continuing professional development.
- Slightly mapped as students gain the knowledge on concepts of deadlock and memory Management.

Programme Outcomes (POs) – BCA

PO1: Obtain and affect data: the fundamental principles, concepts and methods in key areas of Computer Applications and multidisciplinary fields.

PO2: Problem Analysis: Ability to analyze real-time problems using various tools and techniques.

PO3: Design and Development: Ability to design and develop solutions to meet the preferred needs.

PO4: State-of-art Technologies: Skill to apply rising tools and technology.

PO5: Entrepreneurship and Innovation: Ability to provide sustainable and innovative solutions for real-time problems.

PO6: Communication and Team Building: Ability to demonstrate effective communication and interpersonal skills.

PO7: To provide thorough understanding of nature, scope and application of computer and computer languages

PO8: To develop interdisciplinary approach among the students


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APS COLLEGE OF ARTS AND SCIENCE , N .R COLONY, BANGALORE-19
DEPARTMENT OF BOTANY

B. Sc. Botany Programme outcomes as per NEP 2020

Name of the Degree Program: B.Sc. Discipline Core: Botany

Total Credits for the Program: 176 Starting year of implementation: 2021-22

Program Outcomes:

By the end of the program the students will be able to:

(Refer to literature on outcome based education (OBE) for details on Program Outcomes)

PO1: Skill development for the proper description using botanical terms, identification, naming and classification of life forms especially plants and microbes.

PO2: Acquisition of knowledge on structure, life cycle and life processes that exist among plant and microbial diversity through certain model organism studies.

PO3: Understanding of various interactions that exist among plants and microbes; to develop the curiosity on the dynamicity of nature.

PO4: Understanding of the major elements of variation that exist in the living world through comparative morphological and anatomical study.

PO5: Ability to explain the diversity and evolution based on the empirical evidences in morphology, anatomy, embryology, physiology, biochemistry, molecular biology and life history.

PO6: Skill development for the collection, preservation and recording of information after observation and analysis- from simple illustration to molecular database development.

PO7: Making aware of the scientific and technological advancements Information and Communication, Biotechnology and Molecular Biology for further learning and research in all branches of Botany.

PO8: Internalization of the concept of conservation and evolution through the channel of spirit of inquiry.

PO 9: To enable the graduates to prepare for national as well as international level competitive examinations like UGC-CSIR, UPSC, and KPSC etc.


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PO10: To enable the students for practicing the best teaching pedagogy as a biology teacher including the latest digital modules.

PO 11: The graduates should be knowledgeable and competent enough to appropriately deliver on aspects of global importance like climate change, SDGs, green technologies etc at the right opportunity.

PO 12: The graduate should be able to demonstrate sufficient proficiency in the hands-on experimental techniques for their area of specialization within biology during research and in the professional career.

I Semester

Open Elective Course (OE-1)

Title: Plants and Human Welfare

Course Outcome:

On completion of this course, the students will be able to

1. To make the students familiar with economic importance of diverse plants that offer resources to human life.
2. To make the students known about the plants used as-food, medicinal value and also plant source of different economic value.
3. To generate interest amongst the students of plants importance in day today life, conservation, ecosystem and sustainability.

II Semester

Open Elective (OE-2)

Title: Plant Propagation, Nursery management and Gardening

Paper Outcome:

On completion of this course, the students will be able to

1. To gain knowledge of gardening, cultivation, multiplication, raising of seedlings of garden plants.
2. To get knowledge of new and modern techniques of plant propagation.
3. To develop interest in nature and plant life.

B.Sc. BOTANY: Semester - 3

Theory: Discipline Specific Core Course (DSCC)

Title of the Course and Code:

BOT-A-3.1: PLANT ANATOMY AND DEVELOPMENTAL BIOLOGY

Course Outcomes:

On completion of this course, the students will be able to:

1. Observation of variations that exist in internal structure of various parts of a plant and as well as among different plant groups in support for the evolutionary concept.
2. Skill development for the proper description of internal structure using botanical terms, their identification and further classification.
3. Induction of the enthusiasm on internal structure of locally available plants.
4. Understanding various levels of organization in a plant body with an outlook in the relationship between the structure and function through comparative studies.
5. Observation and classification of the floral variations from the premises of college and house.
6. Understanding the various reproductive methods sub-stages in the life cycle of plants
7. Observation and classification of the embryological variations in angiosperms.
8. Enthusiasm to understand evolution based on the variations in reproduction among plants

B.Sc. BOTANY – III Semester

Open Elective Course (OEC-3) (OEC for other students)

Paper: Landscaping and Gardening

Code: OEC-3.3

Learning outcomes:

After the completion of this course the learner will be able to:

- Apply the basic principles and components of gardening
- Conceptualize flower arrangement and bio-aesthetic planning
- Design various types of gardens according to the culture and art of bonsai
- Distinguish between formal, informal and free style gardens
- Establish and maintain special types of gardens for outdoor and indoor landscaping


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B.Sc. BOTANY: Semester - 4

Theory: Discipline Specific Core Course (DSCC)

Title of the Course and Code:

BOT-A-4.1: ECOLOGY AND CONSERVATION BIOLOGY

Course Outcomes:

On completion of this course, the students will be able to:

1. Understanding the fundamental concepts in ecology, environmental science and phytogeography.
2. Concept development in conservation, global ecological crisis, Sustainable development and pros and cons of human intervention.
3. Enable the student to appreciate bio diversity and the importance of various conservation strategies, laws and regulatory authorities and global issues related to climate change and sustainable development.

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2022-2023

DEPARTMENT OF HISTORY

I- semester

DSC Paper 1: - Political history of Karnataka (BCE-300 to CE 1000) Part-1

Course Outcomes

At the end of the course the student should be able to:

- Co 1: -Understand the continuity of Political developments and strategies.
- Co 2:- Analysis the importance of causes for the rise of regional political dynasties.
- Co 3:- Understand contextual necessities which influenced the era of Political supremacy.
- Co 4: -Understand and describe the contemporary political history.
- Co 5: -Appreciate the confluence of diverse political elements.

DSC Paper 2: - Cultural Heritage of India

Course Outcomes

At the end of the course the student should be able to:

- Co 1: - Provide an insight about an extensive survey of heritage of India
- Co 2: - Familiarize Indian history and culture
- Co 3: - Expertise to analyses further development of culture of India
- Co 4: - Analyze the factor responsible for origin and decline of culture
- Co 5: - Provide the opportunity to understand the process of cultural development.

II- semester

DSC Paper 3: -: Political History of Karnataka (CE 11-CE 1750) Part 2

Course Outcomes:

At the end of the course the student should be able to:

- Co1: - Understand the rise and fall of Political dynasties in Karnataka.
- Co2: - Familiarize with the patterns of administration.
- Co1: - Analyze the traditional values and ethos of political development.
- Co1: - Understand the rise and fall of regional variations.
- Co1: - Study the complexities involved in polity of the time.


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II- semester

DSC Paper 4: Cultural Heritage of Karnataka

Course Outcomes:

At the end of the course the student should be able to:

- Co1: - Understand the concept of cultural heritage of Karnataka
- Co2: - Study various cultural factors which influence the flow of culture
- Co3: - Familiarize the factors which influence in influencing culture and society
- Co4: - Analyze the factors responsible for formation of pluralistic society
- Co5: - Understand the concept "Unity in diversity".

III- semester

DSC Paper 5: - Political History of India (From Indus Culture upto 1206)

Course Outcomes

At the end of the course the students should be able to:
(Write 3-7 course outcomes. Course outcomes are statements of observable student's actions that serve as evidence of knowledge, skills and values acquired in this course)

- Co 1: - Understand the history and culture of Political History of India region.
 - Co 2: - Analyze the importance of causes for backwardness of this region.
 - Co 3: - Understand the influence of political influence on the people and culture of this region.
 - Co 4: - Understand the political, Social, Religious and Cultural history of the region.
 - Co 5: - Appreciate the divergent cultural and communal harmony of this region.
- Course Articulation Matrix: Mapping

III- semester

DSC Paper 6: - BANGALORE IN TIME AND SPACE

Course Outcomes

- Co1: - Explain the history and evolution of Karnataka in Bangalore.
- Co2: - understand the Geographical features in Karnataka.
- Co3: - Able to understand the Hindu, Muslim, Christian, Sikh, Buddhist Jain and Anglo Indian society.
- Co4: - Able to understand the social, economic and cultural history of Karnataka under the Hoysala to Kempegowda.
- Co5: - Understand the trade and Commerce Advent of outside.

- Co6: - Understand the impact of Urbanization.
Co7: - Understand the new towns and small towns.
Co9: - Explain the Development of science and Technology.

IV- semester

DSC Paper 7: - History of Medieval India

Course Outcomes:

- Co1: -Understand the concept and meaning of culture.
Co1: - Establish the relationship between culture and civilization.
Co1: - Establish the link between culture and heritage.
Co1: - Discuss the role and impact of culture in human life.
Co1: - Describe the distinctive features of Indian culture.
Co1: - Identify the central points and uniqueness of Indian culture.
Co1: - Explain the points of diversity and underlying unity in it.
Co1: - Trace the influence and significance of geographical features on Indian culture.

IV- semester

DSC Paper 8: - History of Medieval India

Course Outcomes:

- Co1: - Understand the concept and meaning of culture.
Co1: - Establish the relationship between culture and civilization.
Co1: - Establish the link between culture and heritage.
Co1: - Discuss the role and impact of culture in human life.
Co1: - Describe the distinctive features of Indian culture.
Co1: - Identify the central points and uniqueness of Indian culture.
Co1: - Explain the points of diversity and underlying unity in it.
Co1: - Trace the influence and significance of geographical features on Indian culture.

V-Semester

Paper-V. History of Europe-1500-1945

Course Outcomes

- Co1:- Students examine the political, social, cultural forces that have shaped European history from 1500 to 1945. They identify how and why Modern era developed and how it has contributed to contemporary world.
Co2:- Analyze the impact of French Revolution on the evolution of western


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civilization.

- Co3:- Understand the factors that led to the rise of nationalism in Europe with special reference to movements for unification in Germany and Italy.
- Co4:- Significance of the Russian Revolution and outbreak of I world war.
- Co5:- Critically analyze the causes and effects of the rise of dictatorship in Germany, Italy and Japan and the outbreak of II world war.

V SEMESTER

PAPER-VI. HISTORY OF KARNATAKA UP TO 1956

Course Outcomes

At the completion of the semester the students will be able to:-

- Co1:- understand the state formation in Karnataka.
- Co2: - Able to understand the social, economic and cultural history of Karnataka under the Mauryan, Satavahana, Kadamba, Ganga's, Ratrikutas, Chalukyas, Vijaynagara, Bahamans, Adil shahis.
- Co3:- understand the Land grants in all kingdoms.
- Co4: - Able to have a knowledge of literacy contributions made by pampa, vachana sahitya, dasa sahitya navodaya salitya and development of architecture under different rules.
- Co5:- Able to understand the social, economic and cultural history of Karnataka under the Hyderali and Tipu sultan.
- Co2: - Critically analyses the decisions of the government.
- Co3:- Appreciate the progress India has made since Independence.
- Co4:- Have Knowledge of the Indian Politics since Impendence and assertion of Regional parties.
- Co5: - Critically analyses the impact of Globalizations and Liberalizations on Indian economy. Co6:- Develop critical thinking skills through debate, discussion and assignment writing.

Programme Specific outcomes of BA History.

At the completion of B.A in History the students are able to:

- Pos1:- Understand the basic themes, concept, chronology and scope of Indian History and Karnataka History
- Pos2:- Be acquainting with the range of issues related to Indian history and its decisive eras.
- Pos3:- Understand the history of countries other than India with comparative approach.
- Pos4:- Think and argue historically and critically in writing and discussions.
- Pos5:- Prepare for various types of competitive examinations.

Pos6:- Critically recognize the social, political, economic and cultural aspects of history.
Pos7:- To study further in the applied field of history.

VI SEM

Paper 7: - BANGALORE IN TIME AND SPACE

Course Outcomes:

- Co1: -Explain the history and evolution of Karnataka in Bangalore.
- Co2: -Understand the Geographical features in Karnataka.
- Co3: -Able to understand the Hindu, Muslim, Christian, Sikh, Buddhist Jain and Anglo-Indian society.
- Co4: - Able to understand the social, economic and cultural history of Karnataka under the Hoy Sala to Kempegowda.
- Co5: -Understand the trade and Commerce Advent of outside.
- Co6: -Understand the impact of Urbanization.
- Co7: -Understand the new towns and small towns.
- Co9: -Explain the Development of science and Technology.

VI SEM

PAPER-VIII

Select debates in Indian History

Course Outcomes

- Co1: Understand the impact of Indian antiquity
- Co2: Explain the salient features of India valley civilization.
- Co3: Understand the impact Indus script.
- Co4: Understand the importance of the study of the Aryan people, Arya-Dravida debate.
- Co5: Explain the place of Ashoka in Indian history and his contributions.
- Co6: Understand the impact Feudalism.
- Co6: Understand the problems Independent India faced Gandhi and Ambedkar.


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Programme Specific outcomes of BA History.

At the completion of B.A in History the students are able to:

Psos1: -Understand the basic themes, concept, chronology and scope of Indian History and Karnataka History

Psos2: -Be acquainting with the range of issues related to Indian history and its decisive eras.

Psos3: -Understand the history of countries other than India with comparative approach.

Psos4: -Think and argue historically and critically in writing and discussions.

Psos5: -Prepare for various types of competitive examinations.

Psos6: -Critically recognize the social, political, economic and cultural aspects of history.

Psos7: -To study further in the applied field of history.

**Department of
BA Sociology - NEP Syllabus**

Program Outcomes:

By the end of the program the students will be able to: (Refer to literature on outcome-based education (OBE) for details on Program Outcomes)

1. Think critically by exercising sociological imagination
2. Question common wisdom, raise important questions and examine arguments
3. Collect and analyse data, make conclusions and present arguments
4. Think theoretically and examine the empirical data
5. Skilfully Participate in Research Groups and market Research Firms
6. Serve in Development Agencies, Government Departments and Projects
7. Be a Social Entrepreneur, Community Worker, Survey Designer, Research Analyst, Social Statistician
8. Transfer Skills as a Teacher, Facilitator of Community Development
9. Competent to make a difference in the community

Course Title: Understanding Sociology

Course Outcomes (COs):

At the end of the course the student should be able to:

(Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Understand the nature and role of Sociology in a changing world
2. Comprehend the uniqueness of sociological imagination in the study of real world
3. Recognise different perspectives of perceiving the workings of social groups
4. Differentiate between sociology's two purposes - science and social reform
5. Express one's understanding of current social issues in oral and written forms

Course Title: Changing Social Institutions in India

Course Outcomes (COs):

At the end of the course the student should be able to: (Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Identify the new forms taken by institutions of family and marriage
2. Understand the role played by religion in modern world
3. Sensitise the students to the conflicting norms of secularism and living by one's religious beliefs
4. Appreciate the role of education and challenges in making education accessible to all
5. Recognise the social nature of economy and work
6. Grasp the opportunities offered by democracy and the threats it faces
7. Undertake micro research work and communicate effectively


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Course 3 Foundations of Sociological Theory

Course Outcomes (COs):

At the end of the course the student should be able to: (Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Contextualise the social and intellectual background of classical sociologists
2. Appreciate the contemporaneity of classical sociological thought
3. Appreciate the need for thinking in theoretical terms and concepts
4. Demonstrate Basic Understanding of Theory and Research

Course Title: Sociology of Rural Life in India

Course Outcomes (COs):

At the end of the course the student should be able to: (Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Understand the myths and realities of village India constructed by Western scholars
2. Understand the changes in land tenure systems and consequences
3. Appreciate the role of traditional social institutions and how they have responded to forces of change
4. Make an informed analysis of various development programmes and challenges encountered

OE Course 1: Indian Society: Continuity and Change

Course Outcomes (COs):

At the end of the course the student should be able to: (Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Analyse the nature and direction of change in Indian society, basically from traditional to modernity of Social Institutions.
2. Understand the Indicators of change and participation in democratic process.
3. Examine the changing conditions of socially excluded groups through movement for social justice.
4. To critically look at the two way street of globalisation and its impact on Indian society and communicate in clear terms
5. Communicate critical observations with clarity

Course Title: Sociology of Everyday Life

Course Outcomes (COs):

At the end of the course the student should be able to: (Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Look at the familiar world from a new perspective
2. Able to appreciate how our social world is constructed
3. Able to communicate effectively in written and oral formats

OE Course 2 : Society Through Gender Lens

Course Outcomes (COs):

At the end of the course the student should be able to: (Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Understand the role of socialisation as a constructor of gender roles and status
2. Appreciate the role of defining one's self identity in terms of gender
3. Identify the gender bias and discrimination present in everyday social structure
4. Take informed decisions about addressing gender justice issues

Course Title: Social Development in India

Course Outcomes (COs):

At the end of the course the student should be able to: (Write 3-7 course outcomes. Course outcomes are statements of observable student actions that serve as evidence of knowledge, skills and values acquired in this course)

1. Distinguish between growth and development
2. Appreciate the importance of social component of development
3. Appreciate the need for sustainable and inclusive human development
4. Recognise the necessity for focus on changing social values to realise the full potential of growth



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Model Curriculum

Name of the Degree Program: BA

Discipline Core: Sociology Total Credits for the Program: 06

Starting year of implementation: 2022-2023

Program Outcomes:

By the end of the program the students will be able to:

(Refer to literature on outcome-based education (OBE) for details on Program Outcomes)

1. Think critically by exercising sociological imagination
2. Question common wisdom, raise important questions and examine arguments
3. Collect and analyse data, make conclusions and present arguments
4. Think theoretically and examine the empirical data
5. Skilfully Participate in Research Groups and market Research Firms
6. Serve in Development Agencies, Government Departments and Projects
7. Be a Social Entrepreneur, Community Worker, Survey Designer, Research Analyst, Social


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PROGRAM OUTCOME – M.A. ECONOMICS

M.A in Economics program offers various courses which are indispensable for understanding the economy in various facets. Students can become sound economists and able to tackle various problems of the economy and they can become managers, teachers, professors, and also can work for the different sectors of the economy like banking, marketing, production, human resources, data analytical scientists in the changing economy.

- * Studying economics can make the students to understand the theoretical background of the economy.
- * They can bridge the gap between the theory and practical related to the real economic situations.
- * Acquire a sound knowledge related to key sectors of the economy and policy making at the macro level.
- * The policy frame work including Monetary and Fiscal policies and also other policies can be understood in a better way.
- * Can work as teachers, Professors, officers at RBI, Banks and Managers at various business houses, IES officers, Insurance officers etc.
- * They further go through research such as Ph.D.



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PROGRAM OUTCOME – M.A. ECONOMICS

M.A in Economics program offers various courses which are indispensable for understanding the economy in various facets. Students can become sound economists and able to tackle various problems of the economy and they can become managers, teachers, professors, and also can work for the different sectors of the economy like banking, marketing, production, human resources, data analytical scientists in the changing economy.

- Studying economics can make the students to understand the theoretical background of the economy.
- They can bridge the gap between the theory and practical related to the real economic situations.
- Acquire a sound knowledge related to key sectors of the economy and policy making at the macro level.
- The policy frame work including Monetary and Fiscal policies and also other policies can be understood in a better way.
- Can work as teachers, Professors, officers at RBI, Banks and Managers at various business houses, IES officers, Insurance officers etc.
- They further go through research such as Ph.D. and M. Phil courses.

PROGRAM SPECIFIC OUTCOME – M.A ECONOMICS

The study of economics gives an idea about the proper utilization of resources by the individual and collective manner. It looks into the various contents such as consumption, production, investment, income, money and so on. And it helps the people who learned about behaviour of these elements in the economy.

Economic helps to build models on various economic variables such as demand, supply, money, business, production costs etc. on the grounds of theoretical and practical knowledge. Economists can able to formulate the policies based on the theoretical information which are essential for the smooth functioning of the economy. Now a day there are very much scope for the policies for economic wellbeing of the people and drawing the attention of the economists including all the sectors of the economy.

COURSE OUTCOME
ADVANCED MICROECONOMICS-I

Course Objectives

- To provide detailed information on the behaviour of consumers.
- To give an insight on the behaviour of the firms in the economy.
- To understand the functioning of the market and price determination.

COURSE OUTCOME

- ✓ It provides detailed information about the methodological issues in Economics.
- ✓ It helps the students to understand about equilibrium conditions in the economic system.
- ✓ It gives an insight on the behaviour of the consumers under single good model and two goods model under Utility and Indifference curves techniques.
- ✓ It helps to know about the behaviour of the firms related to the production costs, revenues and profits.
- ✓ It helps in understanding the empirical production functions and to estimate the producer's surplus.
- ✓ Also able to provide theoretical and practical insights on the price determination under various market conditions.

ADVANCED MACROECONOMICS-I

Course Objectives

- To provide clear picture on the functioning of the macro economy.
- To give an insight on the aggregate concepts such as National income, savings, investments, consumption, employment, balance of payments, foreign trade, interest rates etc.

COURSE OUTCOME

- ✓ It enables the students to understand the concepts of aggregate demand and supply and behaviour of these elements in the macro level.
- ✓ Students can easily examine the trends in the macro economic variable like aggregate


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income, savings, consumption, investment and employment.

- ✓ Fundamentals of macro economic factors such as static and dynamics can be assessed.
- ✓ The determination of interest rates can be easily assessed with the help of classical and neoclassical models and derivation of IS-LM curves.
- ✓ Provides information on the aggregate investments and various theories of investments.
- ✓ Helps in a better way to understand price fluctuations with various theories of inflation.
- ✓ Can be evaluate the formulations of macroeconomic policies such as Monetary and Fiscal policies in stabilizing the economy.

MATHEMATICAL METHODS IN ECONOMICS

Objectives:

- To familiarize the basic mathematical methods like linear algebra, geometry, integral calculus and linear programming.
- To develop the mathematical application in economic theories.
- To improve the computational skills.

Course outcomes:

- Improve the number crunching skills and helps to understand the basic arithmetic.
- The concept of number system and geometry helps to measure the consumer surplus, producer surplus, profit and loss.
- The application of linear algebra improves the skill of calculation of equilibrium output, market stability and Input-Output model.
- The practical knowledge will be increased with the study of calculus in the calculation of slope of a curve, utility, cost and revenue.
- Helps to find the solution for market stability.
- The application of Game Theory helps to understand the strategic behaviour and profit approaches for the firms in different market types.


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INDIAN ECONOMICS

Course Objectives:-

1. To understand the various growth phases of the Indian Economy.
2. To discuss the achievements and failures of various economic plans towards the development of India.
3. To provide information about trends, states, policies and various issues of different sectors of India economy.

Course Outcomes:-

- Familiarized the changes in the Indian economy and its characteristic features as a growing economy.
- Analysed the Growth trends and reforms of India Agricultural sector after independence.
- Understand the major challenges facing by Indian economy such as poverty, unemployment inequality, education and health
- Examined various employment generation and poverty alleviation programs of the central government.
- Analysed various industrial policy reforms since the independence of India.
- Understand the role and significance of MSMEs, SSIs and cottage industries in the economic development.
- Understand the importance of MNCs and FDI in India economic development.
- Evaluate the promotional strategies towards investment in infrastructure development in India
- Understand India's achievements and failures in global economy.
- Explored India's position in attainment of sustainable development and millennium development goals.

ECONOMIC THOUGHT

Course objectives:-

1. To understand the historical background of economic analysis and its applications for current discussions in economics.
2. To describe the proper chronological and systematic progression of economic thought.
3. To understand economic ideas of different schools.

Course Outcomes:-

- ✓ Understand the nature, scope and origin of Economic Thought.
- ✓ Provides an insight to students on the growth of early economic thought and modern Economic Thoughts.
- ✓ Evaluate the Growth of socialists and Marxist Economic Ideas.
- ✓ Understand the inter link between subjectivism and Marginalize.


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- ✓ Understand the Economic Ideas of Austrian School, Hedonist School, Lousane Mathematical School and Swedish school.
- ✓ Familiarize the Economic Ideas of J.B. say, J.S. Mill and Nassau William Senior.
- ✓ Examined Keynesian revolution and the Monetarist counter revolution aspects.
- ✓ Students understand about Heterodoxy Economics, feminist Economics and Ecological economics.

ADVANCED MICROECONOMICS-II

Course Objectives

- To undersand advanced microeconomic theory comprising of topics in Welfare economics,
- To give an insight on topics like Walrasian and non-Walrasian general equilibrium, risk and uncernatity and economics on information.
- To develop the skill on measurement issues by solving numerical problems.

COURSE OUTCOME

- ✓ It helps the students to understand the general equilibrium theories to policy frame work for income distributions in the society.
- ✓ It helps to understand the exact contribution of the factors of production and policy implications to enhance the welfare of the people.
- ✓ It can make the students to understand the contributions of various economists and their approaches towards the theory of risk and uncertainty.
- ✓ It enables the students to examine the equilibrium in the market in terms of Walrasian and non-Walrasian aspect.
- ✓ It helps the students to understand the information structure in microeconomic models along with asymmetric information and moral hazards.

ADVANCED MACROECONOMICS-II

Course Objectives

- To teach he advance macroeconomic theory comprising the models and theories in open macroeconomics, new classical revolution and models, new Keynesian models and theory of growth.


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- To highlight macroeconomic theory from Classical, Neoclassical, Keynesian and counter keynesian revolution perspectives.
- To develop skill on model building and solving measurement issues.
- To contextualize th relevance of the macroeconomic theory in economic policy.

COURSE OUTCOME

- ✓ It enables the students to undersatnd the concepts open macroeconomic models in terms of capital mobiliy and exchange rates.
- ✓ Students can easily analyze the difference between the New Classical Revolution and the Keynesian approach to aggregate supply and demand analysis.
- ✓ It makes the students aware of contributions of various economists like john Muth, Thomas Sargent and Robert Barro towards the Rational Expection Models.
- ✓ It helps in determining the trends of macro economic variables.
- ✓ Provides information about the equilibrium and fluctions in real business cycle.
- ✓ Hepls in a better way to understand various growth models.

STATISTICAL METHODS IN ECONOMICS

Objectives:

- To improve the application of statistics in economic theories.
- To restate the economic theories with numerical problems by using actual data.
- To study the empirical economics by applying statistical packages.

Course outcomes:

- Provide the statistical basement for the economic analysis.
- Helps to understand the current phenomenon by using statistical packages.
- Helps to know the characteristics of the changing variables with accurate percentage`
- The application of probability and random variables which helps to forecast the changes in policy making.
- There is a clear picture about the research, sampling and report writing.
- Enhance the skills of influences and relationship of multi variable analysis.
- Advanced methods applications in to research field and in economic theories.



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AGRICULTURAL ECONOMICS

Course objectives:-

1. To familiarized the role and significance of agriculture sectors growth in India.
2. To study various theories of agricultural growth and development.
3. To evaluate the changes in agriculture sector in global economy.

Course Outcomes:-

- ❖ Understand the nature, scope and growth of agriculture sector in India.
- ❖ Provides an insight to students on the influential factors of agricultural production in India.
- ❖ Understand various theories of agricultural growth and development.
- ❖ Understand the methods for constructing of the Index of agricultural production.
- ❖ Evaluate the factors determines the prices for agricultural products in India.
- ❖ Realize the need of proper exploitation of resources and techniques to increase agricultural production.

DEVELOPMENT ECONOMICS

Objectives:

- To familiarize the students with the concept, structure and current issues in the economics of development.
- To acquaint them with the theories of development and growth, their applications, critics and the 'state of art' understanding.

Course outcomes:

- Provides information about the Structural Diversity and common characteristics of Developing Nations.
- Helps to understand concept of Sustainable development and various determinants measuring development.
- It provides information about theories of economic development and Technical Dualism.
- There is a clear picture about growth models and endogenous growth theory.
- It helps to analyse the role of political institutions and State in economic development and its changing roles.


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ECONOMETRICS-I

Objectives:

- To know the basic models of Econometrics.
- To understand the Dynamic Econometric model.
- To study the Regression Analysis and its applications.

Course outcomes:

- Able to understand the simple and General Regression models.
- Improve the research skills and its application.
- Helps to understand properties and estimation of variables by using OLS Method.
- The application of Heteroscedasticity increases the understand capacity of distribution of the sample.
- Application of dummy variable improves the skill of data analysis.
- Helps to find the error in the result.
- Helps to draw the inference based on the results.

INTERNATIONAL ECONOMICS

Objectives:-

- To understand the salient features of New Trade Theories.
- To learn the analytical framework of emergence of protectionism in Global trade.
- To acquaint with institutional integration of markets in terms of trade.

Course Outcomes:-

- To understand the Neo-technological trade theories on market structure and international trade.
- Shows the scope and potential of Service trade in developing countries.
- Gain knowledge on economic integration through various trade unions.
- Explore the global and national scenario of structural changes in trade and economic development.
- Helps to understand the concept of protectionism and neo – protectionism.

ENVIRONMENTAL ECONOMICS

Objectives: -

- To familiarize the students with the concepts of Environmental Economics.
- To learn about the principles and theories of optimal use of natural resources.
- To understand the concepts Global warming, Environmental Valuations methods, property rights, social costs.

Course Outcomes:-

- Realize the nature and importance of Environmental Economics.
- Understand the causes and effects of Environmental pollutions like air, water, noise, soil etc.
- Suggest appropriate policy measures to control Environmental Degradation.
- Understand the concepts of Pigouvian taxes and Subsidies, Coase's bargaining solution and collective bargaining.
- Realize the importance of manpower involvement in Environmental up gradation.
- Analyse the Global Environmental externalities and Global warming.
- Find out the appropriate policy suggestions to improve the quality of Environment.
- Understand about tradable pollution permits and International Carbon Tax.

PUBLIC ECONOMICS

Course Objectives

- To enable the students to understand regulatory and development responsibility of government and changes in their policies.
- To enumerate the theoretical and empirical dimensions of public goods and public choice.
- To understand the fiscal federalism with special reference to Indian context.
- To understand the fiscal management issues in India.

COURSE OUTCOME

- ✓ It helps the students to understand the role of modern state in economic development.
- ✓ It enables the students to know concept of market failure and rationale for government intervention.
- ✓ Students can understand the various instruments for the stabilization of Fiscal policy.
- ✓ Defects the imbalance in multi-unit finance.

- ✓ Discusses the issues in Fiscal Decentralization in India.
- ✓ It represents the current scenario of Indian Public Finance.

ECONOMETRICS-II

Objectives:

- To enable students to acquire knowledge of advanced econometrics.
- To acquaint students in methods relating to both single equation and simultaneous equation.
- To enable students to learn the applications of econometrics.

Course outcomes:

- Able to understand the errors, methods and limitations in Single Equation Regression Model.
- Improve the skill of application of econometrics.
- Helps to understand properties and estimation of variables by using various Time Series Model.
- The application of Heteroscedasticity increases the understand capacity of distribution of the sample.
- Application of dummy variable improves the skill of data analysis.
- Helps to find the error in the result.
- Helps to draw the inference based on the results.

ECONOMICS OF INFRASTRUCTURE

Objectives:-

- To familiarize the students with the concept of Economics of Infrastructure.
- To understand the primacy of transport, communication, energy, education and health in development of the country.
- To acquaint wholly to issues involved in development of infrastructure.

Course Outcomes:-

- Helps to understand the relationship between the infrastructure and economic development.
- Shows the scope transport and communication in developing countries.


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- Gain knowledge about the energy economics and energy modelling.
- Explore the organization and financing of supply of social services.
- Helps to understand the role of education and health dimension in development of the country.



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