

# **A.D.B. First Grade College, Harapanahalli**

## **Programme Outcomes (PO's)**

### **DEPARTMENT OF BOTANY**

- **Knowledge and understanding:** 1. Diversity of plants in terms of structure, function, reproduction and ecological roles. 2. The evaluation and assessment of plant diversity.
- **Practical skills:** Giving opportunities to students to conduct experiments practically both in field and laboratory. 1. Study of plant morphology and anatomy. 2. Character correlation for Plant identification. 3. Study of phytohormones. 4. Study of plant diseases with reference to economic crops affected by micro-organisms.
- **Transferable skills:** 1. Use of information technology for accumulation and sharing of data. 2. Dissemination of scientific ideas in writing and orally. 3. Creation of team spirit. 4. Access of library resources. 5. Regularity, punctuality, devotion and Career planning.
- **Scientific Knowledge:** Use of principles of basic science and fundamental process to study and analyse the plant forms.
- **Modern tool usage:** Select and application of proper techniques and modern instruments for physiological activities of plants.
- **The Botanist and society:** Apply resource based knowledge to assess and access plant diversity, its importance for society and ecology, health and hazards, legal and environmental issues and conservation of biodiversity practice with responsibility.
- **Ethics:** Application of moral and ethical principles to mitigate environmental issues and biodiversity conservation.
- **Design/development of solutions:** Formulate new concepts for a green world, sustainable development, betterment of human health specifically from medicinal plants, new formulation of phyto-chemical contents to meet specific need and eco-friendly environment.

### **DEPARTMENT OF ZOOLOGY**

- Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms.
- Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment.
- Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.
- Understands the complex evolutionary processes and behaviour of animals.

- Correlates the physiological processes of animals and relationship of organ systems.
- Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.
- Gain knowledge of Agro based Small Scale industries like poultry, apiculture, sericulture, fish farming, dairy farming and vermicompost preparation.
- Understands about various concepts of genetics and its importance in human health.
- Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.
- Provides opportunity for the mobility of the student both within and across the world.
- Apply the knowledge and understanding of Zoology to one's own life and work.
- Develops empathy and love towards the animals.

## **DEPARTMENT OF CHEMISTRY**

- To understand basic concepts and facts in chemistry.
- To understand importance of chemistry in daily life.
- To develop a better understanding and reasoning of facts.
- To skill up for basic analytical tools.
- To have the skills of various laboratory techniques used in chemical laboratories & chemical Industries.
- To make efficient for various spectroscopic analysis.

## **A D B First Grade College, Harapanahalli**

### **Program Outcomes (PO's)**

#### **Department of Physics**

- Physics is a branch of science that studies matter and its motion through space and time, along with related concepts such as energy and force. Physics is one of the fundamental sciences because the other natural science deal with systems that seems to obey the law of Physics. According to Physics, the physical laws of matter, energy and the fundamental forces of nature govern the interactions between particles and physical entities (such as plants, molecules, atoms or the subatomic particles).
- Physics deals with a wide variety of systems, certain theories are used by all physicists. Each of these theories were experimentally tested numerous times and found to be an adequate approximation of nature.
- Physics uses mathematics to organize and formulate experimental results and from which new predictions can be made.
- The results from physics experiments are numerical measurements. Technologies based on mathematics, made computational physics as active area of research.

#### **Department of Mathematics**

- Ability to acquire in-depth knowledge of algebra, calculus, geometry, differential equations and several other branches of mathematics. This also leads to study of related areas like computer science and physical science. Thus, this Program helps learners in building a solid foundation for higher studies in mathematics.
- The skills and knowledge gained has intrinsic beauty, which also leads to proficiency in analytical reasoning. This can be utilized in modelling and solving real life problems.
- To recognize patterns and to distinguish between essential and irrelevant aspects of problems.
- Utilize mathematics to solve theoretical and applied problems by critical understanding, analysis and synthesis.
- Ability to share ideas and insights while seeking and benefitting from knowledge and insight of others. This helps them to learn behave responsibly in a rapidly changing interdependent society.
- Ability to communicate mathematics effectively by written, computational and graphic means.
- Create mathematical ideas from basic axioms.
- Ability to apply multivariable calculus tools in physics, economics, optimization, and understanding the architecture of curves and surfaces in plane and space etc.
- Able to present mathematics clearly and precisely, make vague ideas precise by formulating them in the language of mathematics, describe mathematical ideas from multiple perspectives and explain fundamental concepts of mathematics to non-mathematicians

- This Program will also help students to enhance their employability for jobs banking, insurance and investment sectors, and data analyst and in various other public and private enterprises.

### **Department of Electronics**

By the end of this programme, the students will be able to:

- Understand the basic concepts of electronics components, network theorem, digital electronics, solid state semiconductor devices, amplifier theory, Analog and Digital circuits, basic circuits, design using circuit maker software and their application.
- Analyze different parameters of various circuits
- Understand the use of electronics in the field of computer science.
- Perform and testing of different electronics components and circuits.
- Analyze the I/P, O/P V-I characteristics of the circuits.
- PO6: Understand the application of Electronics in domestic appliances
- Analyze the relationship between analogue and digital circuits.
- Repair small household electrical and electronics appliances.
- This program provides basic knowledge in mathematics, science and technology related to Electronics field.
- Capability to design a System to meet user demand in Electronics technologic field.
- Strengthen the candidate to communicate technically effective in solving technical research and development issues.
- Encourage graduates to be good human beings and responsible citizen.
- Capability to work effectively as an individual, and as a member or leader in teams, or in multidisciplinary domain.

## **A D B First Grade College, Harapanahalli**

### **Program Outcomes (PO's)**

#### **DEPARTMENT OF ECONOMICS**

- Students will be able to pinpoint and understand the past, present economic conditions of the country.
- Students will also be able to forecast the future course of changes and development through their knowledge of policies and programs set by the governments and other development agencies.
- Students will be able to analyze human behavior, problems or situations from social science, cross-cultural and global perspectives.
- Students will be able to evaluate how theories and models within the social sciences have been established and maintained through systems of power and oppression.

#### **DEPARTMENT OF EDUCATION**

The students after completing course at Graduation level in Education will develop

- An understanding of major concepts, theoretical principals in Education.
- They will have an ability to work effectively in diverse field of Teaching – Learning process.
- They are able to employ critical thinking and efficiency in problems solving ability in Education.
- The students have effective writing and oral communication skills especially the ability to transmit complex information in a clear and concise manner.
- It enable the students to use modern library, searching and retrieval methods to obtain information about a topic, or an issue relating to Education.
- They have the ability to understand the Ethical, historic, philosophic and environmental dimensions of problems and issues facing Education.
- They find employment in Private, industry or government school as Teacher or administrator.

#### **DEPARTMENT OF HISTORY**

- **Sound Knowledge of different Historical Periods:** Under the CBCS papers in each semester are devoted to the study of particular Historical phase in the historical in the events along with the study of a few major works by some master Historians of that period. These not only help the students to understand historical period better, but also reduce the load of study in the concerned area.
- **Knowledge of the Development of Historical Perspective:** While pursuing Honours course of studies in History it is mandatory that a student develops proper knowledge of the historical events. In this sphere also the present syllabus appears to be illuminating, as it provides the students with standard and up to date knowledge of historical events, impact, war and history, result. The students may acquire knowledge of the historical events of the Ancient, Medieval, Modern and European history in new aspects.
- **Development of the Historical Perspectives:** The current syllabus is well chosen to represent different events from different angles. They are not only meant to make the students familiar with the dominant events of different ages, but also to open out new perspectives , the student may acquire a knowledge of the changing nature of politics or kingdoms of the changing times.

#### **DEPARTMENT OF POLITICAL SCIENCE**

- Political Science education provides learners with knowledge and skills need to prepare for a professional career as a teacher, administrator, political scientists, lawyers etc.
- It also provides ground knowledge about the basics of political education (it gives political training).
- It trains about the politics and government at local, state, national and global levels.

#### **DEPARTMENT OF KANNADA**

- To impart and motivate them to learn the State Language with ease and Confidence enabling for better communication skills.

- To orient and enhance the knowledge of the language basics and grammar the Bridge course sessions are conducted by the language department.
- To develop and sharpen interpersonal and communication skills.
- To train the students effectively in the learning process of Kannada language and Literature.
- To enable the learners with the history, evolution, literary movements and
- Development of literary forms in Kannada literature to inculcate the ethical values of life.
- To comprehend literary texts of ancient and modern poetry written by great Poets.
- To inculcate the ethical values of life.
- To emphasize the narrative resurrection of primeval reality through myth.
- To relate their thoughts with the given literature.
- To develop skills in Kannada grammar.
- Students will be able to Speak fluently and write effectively in Kannada.
- Students will be able to Gain specific knowledge on poetry, prose and grammar of the language and literature.
- Students will be able to will be able to write essays, and makes notes by summarizing.

### **DEPARTMENT OF ENGLISH**

- English Literature courses in the Department of English expose students to a wide range of writing from Introduction to English Literature, Indian Literature in English up to 1947,
- Introduction to Phonetics and Linguistics, Post Independent Indian writing in English, Indian, British, American and Anglophone traditions. It helps students explore how writers use the creative resources of language-in fiction, poetry, nonfiction prose, and drama-to explore the entire range of human experience.
- Students are expected to strive, to be imaginative, rhetorically dexterous, and technically proficient and as a result, to gain a deeper insight into life. With the introduction of new syllabus under NEP from this year, which promotes a new thematic frame work where classical Indian Bhasha literature share space with contemporary literary crosscurrents, UG syllabus at VSK University will help students build skills of analytical and interpretive argument, and become careful and critical readers.
- Again, students' engagement with various strategies of drafting and revising, style of writing and analytical skills, diagnosing and developing scholarly methodologies, use of language as a means of creative expression, will make them effective thinkers and communicators-qualities which are crucial for choosing careers in our information-intensive society.

## **A.D.B. First Grade College, Harapanahalli**

### **Programme Outcomes (PO's)**

#### **DEPARTMENT OF COMMERCE**

- This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Warehousing etc., well trained professionals to meet the requirements.
- After completing graduation, students can get skills regarding various aspects like Marketing Manager, Selling Manager, over all administration abilities of the Company.
- Capability of the students to make decisions at personal & professional level will increase after completion of this course.
- Students can independently start up their own Business.
- Students can get thorough knowledge of finance and commerce.
- The knowledge of different specializations in Accounting, costing, banking and finance with the practical exposure helps the students to stand in organization.

## **A D B First Grade College, Harapanahalli**

### **Program Specific Outcomes (PSO's)**

#### **DEPARTMENT OF BOTANY**

- Students will be able to compare and contrast the characteristics of plants, algae and fungi which were differentiate from each other and develops into other forms of life.
- Students will be able to explain the ecological interrelation of life on the earth by tracing energy and nutrient flow through the environment in different strata. They will be able to relate the physical features of the environment to the structure of populations, communities and ecosystems.
- Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.
- Students will be able to collect relevant taxonomical information of plants and accurately interpret the data to evaluate and formulate a position of plant to its phylogenetic level.

#### **DEPARTMENT OF ZOOLOGY**

- Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, ecology and applied Zoology.
- Analyse the relationships among animals, plants and microbes.
- Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Clinical science, tools and techniques of Zoology, Toxicology, Entomology, Nematology Sericulture, Biochemistry, Fish biology, Animal biotechnology, Immunology and research methodology.
- Understand the applications of biological sciences in Apiculture, Aquaculture, Agriculture and Medicine.
- Gains knowledge about research methodologies, effective communication and skills of problem solving methods.
- Contributes the knowledge for Nation building.

#### **DEPARTMENT OF CHEMISTRY**

- To provide laboratory experience to the students by conducting experiments based on topics taught in theory.
- To import the knowledge of general chemistry covering all the aspects namely inorganic, organic, physical & analytical chemistry.
- To analyze, design & develop solutions by applying fundamental concepts of chemistry.
- To learn & apply various principles & laws in chemistry.
- To adopt emerging information and innovative ideas and solutions in chemistry.



## **A D B First Grade College, Harapanahalli**

### **Program Specific Outcomes (PSO's)**

#### **Department of Physics**

This undergraduate course in Physics would provide the opportunity to the students:

- To understand the basic laws and explore the fundamental concepts of physics
- To understand the concepts and significance of the various physical phenomena.
- To carry out experiments to understand the laws and concepts of Physics.
- To apply the theories learnt and the skills acquired to solve real time problems.
- To acquire a wide range of problem solving skills, both analytical and technical and to apply them.
- To enhance the student's academic abilities, personal qualities and transferable skills this will give them an opportunity to develop as responsible citizens.
- To produce graduates who excel in the competencies and values required for leadership to serve a rapidly evolving global community.
- To motivate the students to pursue PG courses in reputed institutions.
- This course introduces students to the methods of experimental physics. Emphasis will be given on laboratory techniques specially the importance of accuracy of measurements.
- Providing a hands-on learning experience such as in measuring the basic concepts in properties of matter, heat, optics, electricity and electronics

#### **Department of Mathematics**

- A student should be able to recall basic facts about mathematics and should be able to display knowledge of conventions such as notations, terminology.
- A student should get adequate exposure to global and local concerns that explore them many aspects of mathematical sciences.
- Student is equipped with mathematical modelling ability, problem solving skills, creative talent and power of communication necessary for various kinds of employment.
- Student should be able to apply their skills and knowledge that is translate information presented verbally into mathematical form, select and use appropriate mathematical formulae or techniques in order to process the information and draw the relevant conclusion.
- Enabling students to develop a positive attitude towards mathematics as an interesting and valuable subject of study.

#### **Department of Electronics**

- Provides the capacity to apply the technical concepts of Electronics in the design, development and implementation of application oriented real time systems.
- Provides ability to solve complex problems in Electronics domain using hardware and software tools.

- Ability to acquire social and environmental awareness with ethical responsibilities to have a successful career in real-world.
- Design system components that meet the requirement of public safety and offer solutions to the societal and environmental concerns.
- Utilize the basic knowledge in mathematics, science in Electronics field.
- This program has a unique positioning because it deals with basic sciences, physical phenomenon, and mathematical concepts and at the same time provides an entry into the tech savvy world of Electronics. The syllabus focuses on competencies required by the industry to ensure employability. Students can also become entrepreneurs in this field and become designers in Printed Circuit Boards and Electronics projects.
- To impart knowledge in fundamental aspects of all branches of Electronics.
- To teach students the principles of Electronics.
- To create inquisitiveness and problem solving skills.
- To prepare students for higher education and career in Electronics.
- To develop skills in the proper handling of apparatus and components
- To make students apply Electronics in their day to day life.
- To make the students a responsible citizen.

## **A D B First Grade College, Harapanahalli**

### **Program Specific Outcomes (PSO's)**

#### **DEPARTMENT OF ECONOMICS**

- Students will be able to understand economic vocabulary, methodologies, tools and analysis procedures.
- Students will be familiar with the knowledge and application of micro economics for the formulation of policies and planning.
- Students will learn to apply economic theories and concepts to contemporary social issues, as well as analysis of policies.
- Students will be able to understand the impact of government policies and will be able to assess the consequences of the policies on the parties involved.
- As the program contains the fields like statistics, mathematics and economic principles, it enhances them to compute and assess the real situation of the economy including the size and changes of population, income pattern, and rate of development with pattern of savings and investments and social security measures adopted in the country.
- Student develops an awareness of career choices and the option for higher studies.

#### **DEPARTMENT OF EDUCATION**

- Students have an ability of understanding human Psychology, from childhood to adulthood.
- They developed an ability to know the philosophical foundations of various theories of Education, and perceive the society meaningfully.
- They have the ability to understand the historical development of Indian Education through the ages.
- They have the knowledge about major Issue faced by Indian Education at various level and stages of Education and the trends of Indian Education.
- They are acquainted with the knowledge of basics of research, how to undertake different researches.
- Students are equipped with the fundamental of statistics – how to calculate means, median and standard deviation.
- They understand the technique of different measuring tools and Technique involved in Measurement and Evaluation.
- They have the ability to apply various teaching- learning aids in classroom situation.
- They have the ability to construct and develop curriculum in accordance with the society's requirement.
- They are well acquainted with dealing problems relating to implementing, executing of certain innovations happened in the organization as they are quite aware of Management.
- They have a thorough knowledge of the Educational history of the world.
- They can undertake project work at ease, in case of recruitment to teacher they can easily adapt to the situation as they have the pre-requisite knowledge of art of Teaching.

#### **DEPARTMENT OF HISTORY**

On completion of the BA with History special, students will be able to...

- Understand the basic themes, concepts, chronology and the Scope of Indian History.
- Acquaint with range of issues related to Indian History that span distinct cars.
- Understand the history of countries other than India with comparative approach.
- Think and argue historically and critically in writing and discussion.
- Prepare for various types of Competitive Examinations.
- Critically recognize the Social, Political, Economic and Cultural aspects of History .

## DEPARTMENT OF POLITICAL SCIENCE

- Political Science organizes guest talk by scholars in the field of Political Science and encourages the students to think critically and gives information about politics and various aspects of public life.
- Political Science department enables the students to participate in various programs conducted by Humanities department as well as forums of college and also avail the students to participate in various activities of the college and outside

## DEPARTMENT OF KANNADA

- Acquiring Fundamental Knowledge of Kannada Language.
- Appreciate, interpret and critically evaluate the representative literary and Cultural text.
- Learning through Experimental Method.
- Acquiring reading and Writing Skill.
- Imbibing Literacy research attitude.
- Develop Communicative Skill.
- Enhancement of technology skills.
- To learn about gender, environment and other contemporary issues.
- To familiarizing with key concepts of linguistic and study latest trends in language.
- Building the critical temper.
- Appreciate the creative use of language.
- Develop interest in reading literary pieces.
- Enable students to develop reading, writing, listening and effective speaking skills.

## DEPARTMENT OF ENGLISH

**Literature, Nation and Tradition:** The current syllabus in the UG level will provide students an opportunity to know India's age old literary and cultural tradition through their exposure to Sanskrit texts and modern Indian vernacular literature in translation. How reading literature in English can be an effective means to address the complex issues of identity, nationalism, historical tradition in Indian context, is a new focus area of the present course.

- **Awareness about Culture and History:** Students gain an understanding of the relations between culture, history and texts. They learn to use texts as a gateway to various cultural traditions and interpret them in their historical contexts. How a literary text can appear as an ideal platform to locate dominant and marginalized voices of a society, is an important focus of the under-graduate literature programme.
- **Gaining of Critical Insight:** An exposure to various social and cultural traditions and through the reading of representative texts from different periods help a student gain a critical insight about the reality as a whole. With the help of their Knowledge of various critical theories Page 2 of 6 it is expected that they will be able to construct their own meaning about the reality and his historical situatedness.
- **Issue of Sexuality and Gender:** Literature course teaches a student to believe that one's own sense of identity is not enough to persuade the rest of the world to agree. Human beings are no longer bound by such binary concepts as male-female or masculine-feminine. They will learn that sex is a biological concept based on biological characteristics, whereas gender deals with personal, societal and cultural perceptions of sexuality. Appropriation of literary texts as tools of cultural study will help students to challenge centuries of social tradition and scientific belief which promote such and other types of differentiations. Cross Fertilization with allied Arts: Students of English Honours should also be able to articulate the relations among culture, history, and texts—for example, ideological and political aspects of representation, economic processes of textual production, dissemination and reception, and cross-fertilization with other arts: architecture, sculpture, music, film, painting, dance, and theatre.

- **Acquisition of Values:** Acquisition of values is needed for individual development and social transformation. English literature course at UG level, like any other literary course, helps a student to gain subjective experience of the text's aesthetic value. This helps in developing quality of thinking and imagination and is a step forward to emerge as a better human being. Through their judgment of the aesthetic value of a literary text students will learn to appreciate whatever is good and beautiful in life. Their healthy mind will thus be storehouse of healthy thoughts.
- **Writing skills and Process:** Students will be able to recognize and comprehend different varieties of English language and develop a writing style of their own. English honours students should be aware also that textual analysis can be extended with profit to political, journalistic, commercial, technical, and web-based writing. It is expected that their exposure to the ideas of variety of writers and their cultural backgrounds, will have a bearing in their own literary styles. With the development of their writing skills and finesse of style there will be a possibility of them emerging as perspective writers, editors, content developers, teachers etc.

## **A.D.B. First Grade College, Harapanahalli**

### **Programme Specific Outcome (PSO's)**

#### **DEPARTMENT OF COMMERCE**

- The students can get the knowledge, skills and attitudes during the end of the B.com degree course.
- By goodness of the preparation they can turn into a Manager, Accountant ,Management Accountant, Cost Accountant, Bank Manager, Auditor, Company Secretary, Teacher, Professor, Stock Agents, Government employee and so on.,
- Will prove themselves in different professional exams like C.A. ,C S, CMA, MPSC, UPSC. As well as other courses
- The students will acquire the knowledge, skill in different areas of communication, decision making,problem solvong in day to day business activities.
- Students will gain thorough systematic and subject skills within various disciplines of finance, auditing and taxation, accounting, management, communication, computer.
- Students can also get the practical skills to work as accountant, audit assistant, tax consultant, and computer operator. As well as other financial supporting services.
- Students will learn relevant Advanced accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- Students will be able to do their higher education and can make research in the field of finance and commerce.

**A.D.B. First Grade College, Harapanahalli**  
**Course Outcomes (CO's)**

**DEPARTMENT OF BOTANY**

**BSc I Semester**

**Paper: 01. Microbial Diversity**

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

- History of microbiology, contributions of microbiologists to the field of microbiology.
- Microbial diversity along with its mode of nutrition, reproduction and its economic importance.
- Role of microbes in the maintenance of the ecological balance.
- The importance of microbes in modern research and its application.
- Knowledge on the systematic of viruses, bacteria, fungi and their various metabolic processes.
- The difference between beneficial and harmful viruses and bacteria.
- The industrial applications of microbes based on the metabolites produced which are useful for the human application in various fields of medicine and nutrients.
- Role of beneficial or harmful viruses in research, medicine and diagnostics, as causal organisms of plant diseases.
- About the lifecycle of various fungi.
- About the special plant community called lichens & their role in environment.
- Preparations of bio fertilizers.

**BSc II Semester**

**Paper: 02. Diversity of Non flowering plants**

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

- About algae, their classification, lifecycles and economic importance.
- Identification of algae based on their structure & their behavior.
- Plant communities like Bryophytes, Pteridophytes & Gymnosperms along with their ecological & evolutionary significance.
- Paleobotanical evidences supporting origin of non vascular plants.
- Economic importance of non-flowering plants.

**BSc III Semester**

**Paper: 03. Histology, Anatomy, Embryology of angiosperms and Palynology**

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

- About cells, tissues, their classifications along with functions.
- Clear understanding about the most advanced plants i.e. Angiosperms.
- The floral morphology of angiosperms and different theories related to the evolution of advanced floral parts of the plants.

- About the historical perspective of palynology and its aspects and prospects.
- The process of development of micro and mega spores and its involvement in the process of plant development.
- The process of embryo, endosperm development and various features.

#### **BSc IV Semester**

##### **Paper: 04. Ecology and Environmental Biology**

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

- The structure of an ecosystem, functions and its various components.
- The concept of Population and Community ecology along with its characteristics and structure.
- About the measures to study population or community.
- About different phytogeographic regions of India, factors serving for the geographic divisions and its vegetation.
- About the factors responsible for evolution and as a whole the mechanism for various evolutionary processes.

#### **BSc V Semester**

##### **Paper: 05. Plant taxonomy and morphology of flowering plants**

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

- The Objectives, Principles and Evolutionary Trends in Taxonomy.
- The different system of taxonomic classification of plants proposed by different renowned taxonomists and the system of classification followed in the present.
- The principles and rules of binomial nomenclature i.e. ICBN.
- About the modern trends in plant taxonomy.
- About the affinities, phylogeny, economic importance and comparative studies of different plant families both monocotyledons and dicotyledons.

#### **BSc VI Semester**

##### **Paper-6A. Plant breeding and Biotechnology**

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

- The basic processes of plant breeding and crop development using different breeding techniques.
- About Modern biotechnological and genetic engineering tools and techniques, their application and limitations.
- The development of new molecular biological techniques and their use for human benefit.
- About plant tissue culture and transgenic production.

#### **BSc VI Semester**

##### **Paper-7 Cell Biology and Genetics**

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

- The structure and chemical composition of chromatin and concept of cell division.



- About Cell Science& the new discoveries in the same field.
- The composition, formation, structure & functions of Cell wall, Plasma membrane, Cell organelles and mechanism cell division.
- About the basic principles of cytogenetic and various mechanism of inheritance of characters generation after generation.
- The various mechanisms of chromosomal aberrations and structural changes followed by their significant role in the characteristics of an individual.
- A clear view of the mechanism of heredity and transfer of genetic material.

### **BSc VI Semester**

#### **Paper-8: Plant physiology**

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

- The physiological processes involved in the plant sciences.
- About information on metabolic processes in plants.
- Mineral nutrition energy conservation through photosynthesis, breakdown of stored foods through respiration.
- About nitrogen metabolism with special reference to assimilation of nitrogen in amino acids and protein.
- Role of plant growth regulators and their application in agriculture and horticulture.
- Growth and other related physiological aspects such as circadian rhythm, photoperiodism and vernalization.
- Movements, responses to light, water and gravity.

# **A D B first Grade College, Harapanahalli**

## **Course Outcomes (CO's)**

### **DEPARTMENT OF ZOOLOGY**

#### **B.Sc. I Semester**

##### **Paper: 1. Cytology, Genetics & Infectious diseases**

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

- The structure and functions of cell organelles.
- The chromatin structure and its location.
- The basic principle of life, how a cell divides leading to the growth of an organism and also reproduces to form a new organism.
- How a cell communicates with its neighbouring cells.
- The principles of inheritance, Mendel's laws and the deviations.
- How environment plays an important role by interacting with genetic factors.

#### **B.Sc. II Semester**

##### **Paper: 2. Biochemistry and Physiology**

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

- Basic structure of bio molecules through model making.
- Develop the skills to identify different types of blood cells.
- Enhance basic laboratory skills like keen observation, analysis and discussion.
- Learn the functional attributes of bio molecules in animal body.
- Know uniqueness of enzymes in animal body and their importance through enzyme kinetics.

#### **B.Sc. III Semester**

##### **Paper: 3. Economic zoology**

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

- Understands the concept of fisheries, dairy, poultry, sericulture and aquaculture. Students will get an insight into Bee keeping tools and equipment and learn to manage Bee hives for honey production, harvest and marketing.
- Understanding about identification of food fishes of Karnataka and life cycle of Bomboxy mori.
- The technical knowledge about dairy management, types of breeds, nutritive value of milk, and different cattle diseases.
- Sericulture, poultry and dairy are agro based industries in India that enables students to get self-employment.

#### **B.Sc. IV Semester**

##### **Paper: 4. Biochemistry and Physiology**

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

- Conducting experiments, satisfactory analysis of data and interpretations of results.

- The distinguishing details about glands and vital organs of human body.
- Understanding the interactions and interdependence of physiological and biochemical process.
- The concepts of endocrine system and homeostasis there by gaining fundamental knowledge of animal physiology and biochemistry.
- The functional attributes of bio chemicals in animal body.

### **B.Sc. V Semester**

#### **Paper: 5.1 Molecular biology, Immunology and wildlife**

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

- The basic knowledge of structure and function of DNA and RNA, and the synthesis of proteins.
- About immunology and its aspects.
- The basic knowledge of antigen and antibodies.
- The knowledge about Biodiversity, Animal relationship and hotspots in animals.
- About the Endangered and Extinct species.

### **B.Sc. V Semester**

#### **Paper: 5.2A Economic Zoology**

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

- The education on bee improvement and to increase the public awareness about health aspects of honey and it's by products.
- Imparts the knowledge about silk worm rearing, mulberry cultivation, pest and diseases associated with silk worm.
- About the poultry breeds, nutritive value of egg, poultry farming, and diseases associated with poultry fowls.
- The knowledge of economic zoology for the purpose of self employment and agro based industry.

### **B.Sc. VI Semester**

#### **Paper: 6.1 Cell biology, cancer biology and developmental biology**

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

- About the skill of squash preparation method to study mitosis and meiosis and also learn the different stages.
- The knowledge about tumour cells and impacts about the carcinogenic agents.
- About basic knowledge of chromosomal syndrome and its karyotypes.
- About the development of egg and chick.
- About developmental aspects of human beings.

### **B.Sc. VI Semester**

#### **Paper: 6.2 Genetics, Palaeontology and evolution.**

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

- About the mendelian laws of inheritance.

- The concepts of interaction of gens linkage and crossing over.
- The origin of life and evidence of organic evolution.
- About the evolutionary history of horse and man.
- About fossils and how the fossils are preserved and dating.

# **A.D.B. First Grade College, Harapanahalli**

## **Course Outcomes (CO's)**

### **DEPARTMENT OF CHEMISSTRY**

#### **B.Sc. I Semester**

#### **FUNDAMENTALS OF CHEMISTRY**

At the end of the course, students will be able:

1. To understand and appreciate the development of Various atomic theories
2. To Know the need for quantum mechanical structure of atoms
3. The concept of organic reactions and techniques of writing the movement of electrons, bond breaking and forming.
4. To understand the concept of aromaticity, resonance, hyper conjugation etc.
5. To understand the preparation of alkanes, alkenes & alkynes their reactions etc.
6. To make familiarization with various states of matter.
7. To know liquid state and its physical properties are related to temperature and pressure variation.
8. The concept of volumetric & gravimetric analysis and deducing the conversion factor for determination
9. To know handling of toxic chemicals, concentrated acids and organic solvents & practice safety procedures

#### **B.Sc. II Semester**

#### **MODELS & CONCEPTS IN CHEMISTRY**

At the end of the course, students will be able:

1. To develop an understanding of the periodic trends among the compounds of S-& P- block elements.
2. The concepts of organic reactions & techniques of writing the moment of electron, bond breaking, bond forming.
3. Understand the preparation of alkanes, alkenes & alkynes and the reactions etc.
4. To make familiarization with states of matter.
5. To familiarize the student with nucleophilic substitution reactions in aliphatic and aromatic compounds.
6. To teach the calculation of lattice parameters.
7. To develop the concept of solids, lattice parameters-its calculation, application of symmetry and solid characteristics of simple salts.
8. Treatment of analytical data using statistics.

## **B.Sc. III Semester**

### **PAPER-III**

At the end of the course, students will be able:

1. To understand transition metal (d-block elements) chemistry.
2. To understand chemistry of Lanthanides & actinides.
3. To understand the various theories of Acids-Bases & their properties
4. To learn the chemistry of organic halogen compounds
5. To learn the chemistry of organic compounds containing oxygen i.e. alcohols, phenols & carboxylic acids.
6. To understand quantum mechanical concepts.
7. To learn various laws and their limitations in thermodynamics
8. To know different laws of adsorption & distribution

## **B.Sc. IV Semester**

### **PAPER-IV**

At the end of the course, students will be able:

1. To understand isomerism in coordination compounds.
2. To familiarize metal ligand bonding in complexes.
3. To understand the organic compounds containing Oxygen.
4. To understand the organic compounds containing nitrogen
5. To familiarise types liquid mixtures & Raoult's law
6. To understand the phase rule and its applications.
7. To understand the properties of dilute solutions.

## **B.Sc. V Semester, Paper-V**

### **MODERN CONCEPTS OF CHEMISTRY-I**

At the end of the course, students will be able:

1. To understand chemistry of d-Block elements
2. To understand various industrial process.
3. To learn the stereochemistry of organic compounds.
4. To understand properties of active ethylene compounds.
5. To learn various aspects of thermodynamics

## **B.Sc V Semester, Paper-VI**

### **APPLIED CHEMISTRY-I**

At the end of the course, students will be able:

1. To understand the chemistry of f-block elements, metallic nitrosyl complexes, gravimetric analysis and industrial technique like powder metallurgy.
2. To learn various spectroscopy of organic compounds.

3. To learn various aspects in photochemistry.
4. To learn the quantum mechanics.

### **B.Sc. VI Semester, Paper-VII**

#### **MODERN CONCEPTS OF CHEMISTRY-II**

At the end of the course, students will be able:

1. To understand theories of bonding in coordination complexes
2. To have knowledge of nano particles, their preparations & applications.
3. To familiarize the biomolecules like carbohydrates, amino acids & proteins Fats & oils.
4. To know the molecular spectroscopy & their types with examples.
5. To understand radiation chemistry & biological effects of radiation

### **B.Sc VI Semester, Paper-VIII**

#### **APPLIED CHEMISTRY-II**

At the end of the course, students will be able:

1. To learn In-organic polymers, their types, physical properties & applications.
2. To understand analytical tools like thermogravimetry and its applications.
3. To familiarize the toxic effects of heavy metals and pesticides.
4. To have the knowledge various concepts of Acids & bases.
5. To get the knowledge of natural bio-compounds, their synthesis and uses.
6. To familiarize the essential oils, their synthesis & structures.
7. To have detailed knowledge of Biomolecules like Vitamins, Hormones & nucleic acids.
8. To understand the thermodynamical aspects-like partial molar quantities and derivation of thermodynamical equations.
9. To understand the difference between classical & quantum statistical mechanics.
10. To learn the molecular structures through additive & constitutive properties.

# **A.D.B. First Grade College, Harapanahalli**

## **Course Outcomes (CO's)**

### **DEPARTMENT OF PHYSICS**

#### **B.Sc. I SEMESTER**

##### **MECHANICS & PROPERTIES OF MATTER**

After completion of this course student should be able to

- Explain the basic frames of reference and special theory of relativity.
- Apply conservation laws to understand physical systems.
- Apply dynamics of rigid bodies to understand physical systems.
- Explain elastic behaviour of materials.
- Explain properties of fluids based on surface tension and viscosity.
- Setup experiments for the determination of moment of inertia of bodies.
- Setup experiments for the determination of elastic properties of solids.
- Setup experiments to verify laws in mechanics and elasticity.
- Setup experiments for the determination of surface tension, viscosity and other properties of liquids.

#### **B.Sc. II SEMESTER**

##### **ELECTRICITY & MAGNETISM**

At the end of the course, students will be able to:

- Apply electric field concepts to physical systems.
- Interpret DC & AC electrical circuits.
- Apply magnetism concepts to physical systems.
- Apply vector analysis in electromagnet theory.
- Explain magnetic properties of materials.
- Design experiments in electricity and magnetism.
- Execute experiments in electricity and magnetism.
- Experimentally verify electrical theorems and measure electrical properties of materials.

#### **B.Sc. III SEMESTER**

##### **ELECTRICITY, VECTOR ANALYSIS & ELECTROMAGNETIC THEORY**

At the end of the course, students will be able to:

- Understand the basic electrical components.
- Apply network theorems to two terminal linear networks.
- Understand response of LR, CR and LCR circuits to alternating current/voltage.
- Understand working of bridges and filters.
- Working principle of CRO.
- Apply vector calculus in various physics calculations.
- Understand the concepts of Coulomb's law Gauss's law, Biot-Savart's law, Ampere's law and their applications.
- Understand Electromagnetic waves and their productions



## **B.Sc. IV SEMESTER**

### **PHYSICAL OPTICS, FIBRE OPTICS & COMPUTATIONAL PHYSICS**

At the end of the course, students will be able to:

- Understand various theories of physical and geometrical optic.
- Understand the construction and working of optical instruments optical fibres.
- Understand concepts of special theory of relativity.
- Understand experimental aspects of interference, diffraction and polarisation.

## **B.Sc. V Semester (Paper-5)**

### **ATOMIC PHYSICS & LASER**

At the end of the course, students will be able to:

- Understand the calculation of fundamental quantity of an electron-charge and specific charge.
- Understand the effect of finite nuclear mass.
- Understand the concept of space quantisation and spinning of the electron and hence the fine structure of atomic spectrum.
- Understand interaction between spin motion and orbital motion of the electrons.
- Understand new concepts of modern physics such as Zeeman Effect, Stark Effect and Paschen back effect.
- Understand the concept of X-rays and their origin and characteristics.
- Understand the concept of LASER, construction and working of different types of Lasers and their applications in different fields.

## **B.Sc. V Semester (Paer-6)**

### **MOLECULAR PHYSICS, NUCLEAR PHYSICS & STATISTICAL PHYSICS**

At the end of the course, students will be able to:

- Understand the different types of spectrum exhibited by molecules.
- Understand the distribution functions such as Fermi-Dirac, Maxwell-Boltzmann and Bose-Einstein distributions.
- Understand the concepts of theories of radioactivity, nuclear forces, nuclear models, nuclear detectors, nuclear accelerators and nuclear reactions.
- Understand Cosmic ray discovery and theory of origin of cosmic rays.

## **B.Sc. VI Semester (Paper-7)**

### **ELECTRONICS, SOLIDSTATE PHYSICS & NANOMATERIALS**

At the end of the course, students will be able to:

- Understand the naming, working, modes of connection & biasing of transistor.
- Understand the analysis of transistor circuit using h-parameters.
- Understand op-amp characteristics and applications.
- Understand types of feedback & oscillator circuit- construction and working.
- Understand the concept of digital electronics-different types of logic gates & their working, Boolean laws, De-Morgan's theorem and their implications.

- Understand crystal structure, types of crystals, Bragg's law, and Bragg's spectrometer.
- Understand the concept of Specific heat of solids & free electron theory of Metals.
- Understand the concept of Band theory of solids, Superconductivity, Magnetic materials, Nanomaterials.

### **B.Sc. VI Semester (Paper-8)**

#### **RELATIVITY, ASTROPHYSICS, QUANTUM MECHANICS & SPACE PHYSICS**

- At the end of the course, students will be able to understand:
- The Special Theory of Relativity, Limitations of classical (Galilean) Relativity, The Michelson-Morley Experiment.
- Postulates of the Special Theory of Relativity, Lorentz Transformation, Relativity of Simultaneity, Length Contraction & Time dilation.
- Relativistic transformation of velocity, relativistic variation of mass, Einstein's mass energy equivalence with illustrations,
- Concept of Matter Waves- de Broglie hypothesis, Characteristics of matter waves, Group and phase velocity of matter Waves
- Heisenberg's Uncertainty Principle and applications of the Uncertainty Principle
- Concept of wave function, Properties of wave function & its Physical significance
- Schrodinger's Wave Equation in time independent and time dependent forms. Application of Schrodinger's equation.
- Basic concepts of Astrophysics, Stellar Spectra, Stellar Structure Stellar Evolution,
- Solar atmosphere electromagnetic radiations from the sun, Solar wind & solar cycles.

# **A.D.B. First Grade College, Harapanahalli**

## **Course Outcomes (CO's)**

### **DEPARTMENT OF MATHEMATICS**

#### **B.Sc. I SEMESTER**

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

- To understand the concept of rank of a matrix and its relation to solution of linear system of equations ,learning the idea of Eigen values, Eigen vectors, Cayley-Hamilton theorem
- Recognize the algebraic equations representing geometric objects such as line, plane, sphere cylinder, cone, and analyse them.
- Learn the basic skills of successive differentiation, partial and total differentiation, calculation of Jacobians, recognise homogeneous functions leading to Euler's theorem.
- Compute integrals using reduction formulae and Leibnitz rule.
- To develop interest among students in various topics in mathematics like calculus and real number system. Improve the differentiation and integration skills.
- Students learn to generate plane curves by using parametric equations.
- Students learn the representation of objects in 2D and 3D in the form of matrices.

#### **B.Sc. II SEMESTER**

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

- Recognize the mathematical objects called groups.
- Explain the significance of the notions of cosets, normal subgroups and factor groups.
- Understand the concept of differentiation and fundamental theorems in differentiation and various rules.
- Organize to present the applications to the evaluation of simple line integrals
- Comprehend the important concepts of Normal subgroups, quotient group, Homomorphism of group.
- Ability to understand a large class of commutative rings by regarding them as quotients of polynomial rings by suitable ideas.
- Get the knowledge of Partial derivatives of a function of two or more variables, implicit and explicit functions, Homogeneous functions.

#### **B.Sc. III SEMESTER**

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

- Improving the knowledge of higher Linear algebra includes vector spaces and linear transformation
- To understand the concept of Homomorphism, Isomorphism and properties of Homomorphism.
- Get the knowledge of linear combination concepts of linearly independent and dependent subsets.
- Organise to present the properties of linear transformation, Matrix of linear transformation, change of basis, range and kernel of linear transformation, Rank-Nullity theorem

#### **B.Sc. IV SEMESTER**

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

- Understand the concept of Riemann Integration
- To study the fundamental theorems of calculus, the first and second mean value theorems of integral calculus

- Improving the knowledge of Analytic function, Cauchy-Riemann equations in Cartesian and polar form and harmonic function.
- Develop the concepts of some standard transformation: conformal and special conformal transformation and the complex line integral.
- To impart knowledge to the students about Cauchy integral theorem and Cauchy's integral formulae for the function and its derivatives.
- Organize to present the applications to the evaluation of simple line integrals.
- Learn different methods of solving special functions on differential equations: Legendre's, Bessel, Laguerre's differential equations and Hermite polynomials.

### **B.Sc. V SEMESTER**

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

- Expressing the functions as sine and cosine form. Solving the improper integral problems.
- To learn to apply the various numerical techniques for solving real life problems.
- To fit curve to the data by using 5 different methods of interpolation as well as extrapolation.
- To be able to solve first order first degree differential equations.
- To apply notion of derivatives in mean value theorem and also higher order derivatives which arrive in the applied science.

### **B.Sc. VI SEMESTER**

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

- To understand the concept of Laplace Transforms and its applications.
- Get the knowledge of Behaviour of the real and complex analysis, Get the basic things of algebra of integrable functions.
- Improving the knowledge of higher Linear algebra includes vector spaces and linear transformation.
- To inspire interest for the knowledge of concepts of Integral theorems.
- To enable the students to solve the Half range Cosine and Sine Fourier series.
- To get well equipped with mathematical modelling abilities.

**A.D.B. First Grade College, Harapanahalli**

**Course Outcomes (CO's)**

**DEPARTMENT OF ELECTRONICS**

**B.Sc. V Semester, Paper-5**

**Digital Electronics and C Programming**

By the end of this course, the students will be able to:

1. Understand the basic of C language.
2. Understand different syntax, keywords and operators used in C.
3. Understand different control statement related to C programming
4. Understand the concepts of advanced data types.
5. Understand the concept of file structure in C language.
6. Understand the concepts of different logic family and comparison of Different parameters of logic family.
7. Understand the concept of sequential logic circuits and study of different.
8. Sequential circuit with reference to storage.
9. Understand different counting circuits and their applications.
10. Understand different digital storage devices, memory, and their classification with expansion.

**B.Sc. V Semester, Paper-6**

**Analog and Digital Communication**

By the end of this course, the students will be able to:

1. Understand the basics of electronics communication and types of communication
2. Describe different propagation modes of signals
3. Understand the concept of digital communication
4. Understand fiber optics communication system and concept of modern communication system.

**B.Sc. VI Semester, Paper-7**

**Micro Controller and Application**

By the end of this course, the students will be able to:

1. Recall And Apply A Basic Concept Of Digital Fundamentals To Microprocessor Based Personal Computer System.
2. Identify A Detailed S/W & H/W Structure Of The Microprocessor.
3. Illustrate how the different peripherals (8255, 8253 etc.) are interfaced with microprocessor.
4. Distinguish And Analyze The Properties Of Microprocessors & Microcontrollers.
5. Analyze The Data Transfer Information Through Serial & Parallel Ports.
6. Train Their Practical Knowledge Through Laboratory Experiments.

## **B.Sc. VI Semester, Paper-8**

### **Communications Systems**

By the end of this course, the students will be able to:

1. Discuss satellite navigation and global positioning system.
2. Evaluate cellular mobile communication technology and propagation model.
3. To learn the basic elements of optical fiber transmission link, fiber modes configurations and structures.
4. To understand the different kind of losses, signal distortion, SM fibers.
5. To learn the various optical sources, materials and fiber splicing.
6. To learn the fiber optical receivers and noise performance in photo detector.
7. To learn the fiber optical receivers and noise performance in photo detector.
8. Student will be able to compare working of different types of radars.
9. Student will be able to analyze the statistical parameters of Noise and Radar cross section of targets.
10. Student will be able to distinguish the fixed and moving targets using different types of radar systems
11. Student will be able to explain various techniques employed in radar receivers for detection of signals in noise.
12. Student will be able to observe the variation in parameters of radar system by the estimation of noise figure & noise temperature.
13. Student will be able to identify the different types of display devices & duplexers.

**A.D.B. First Grade College, Harapanahalli**

**Course Outcomes (CO's)**

**Department of History and Archaeology**

**B.A. I Semester**

**DSC - 1 Political history of Karnataka**

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

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

**B.A. I Semester**

**DSC – 2 Cultural Heritage of India**

At the end of the course the student should be able to provide an insight about:

- An extensive survey of heritage of India.
- Familiarize Indian history and culture
- Expertize to analyse further development of culture of India
- Analyse the factor responsible for origin and decline of culture
- Provide the opportunity to understand the process of cultural development

**B.A. I Semester**

**Open elective -1 Cultural History of Karnataka**

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

- Provide an insight about the cultural development of Karnataka.
- Familiarize Karnataka history and culture.
- Expertize to analyze further development of culture of Karnataka.
- Analyze the factors responsible for origin and decline of dynasties.

- Provide the opportunity to understand the process of cultural diversities

### **B.A. II Semester**

#### **DSC – 3 Political History of Karnataka**

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

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

### **B.A. II Semester**

#### **DSC – 4 History and Culture of Ancient India- Part 11**

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

- Understand the emergence of major imperial dynasties of India which ruled during Ancient period.
- Notice the cultural contributions of different dynasties of Ancient India.
- Understand development of administrative System, literature and Society in Ancient India.
- Know the development of art and architecture in Ancient India.
- Recognise the places of historical importance.

### **B.A. II Semester**

#### **Open Elective - 2 Cultural History of Karnataka (11 AD to 1750 AD )**

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

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



### **B.A. III Semester**

#### **MEDIEVAL INDIAN HISTORY- (1206-1526A.D)**

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

- Understand the achievements of Delhi Sultan rulers and their cultural contributions.
- Understand the last phase of Delhi Sultan rule and its declines.

### **B.A. IV Semester**

#### **MEDIEVAL INDIAN HISTORY - MOGHUL EMPIRE**

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

- Understand the achievements of Mughal rulers and their cultural contributions.
- Understand the last phase of Mughal rule and its decline.

### **B.A. V Semester**

#### **501: MODERN INDIAN HISTORY (FROM 1707-1856AD)**

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

- Understand the Advent of the European powers and highlights the policies of British Governor Generals.
- Understand the British relations with the Sikhs and Marathas and expansionist policy of the British.

### **B.A. V Semester**

#### **502: HISTORY OF KARNATAKA UP TO 1336 A.D.**

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

- This paper deals with Geographical features and sources of history of Karnataka.
- The paper focus on the cultural contributions of Chalukyas of Kalyana, the Hoysalas of Dorasamudra and significance of the Socio - Religious reform movement in Karnataka.

### **B.A. VI Semester**

#### **602: History of Hyderabad Karnataka (Post Vijayanagara to 1956A.D.)**

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

- Understand the feudatory rulers of post - Vijayanagar period and Princely States of Hyderabad Karnataka.
- Understand the Europe between the two World Wars 1919-1939 U.N.O

## **B.A. VI Semester**

### **603: Project Work**

The objectives of conducting project work during of 6th semester of the Bachelor of Arts in History program are:

- To provide an opportunity for students to apply theoretical concepts in Historical & Archaeological research work.
- To expose the students to the current historical development
- To learn apply multidisciplinary concepts, tools and techniques to solve research area.
- To know the present scenario of a particular field of historical and archaeological ideas.
- To create awareness for various research topics in the history.

**A.D.B. First Grade College, Harapanahalli**

**Course Outcomes (CO's)**

**DEPARTMENT OF POLITICAL SCIENCE**

**B. A. I Semester**

**DSC – 1 BASIC CONCEPTS IN POLITICAL SCIENCE.**

At the end of the course 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.

**B. A. I Semester**

**DSC - 2 POLITICAL THEORY**

- This course aims to introduce certain key aspects of conceptual analysis in political theory and the skills required to engage in debates surrounding the application of the concepts. Learning Outcomes : At the end of the course the students shall understand
- The nature and relevance of Political Theory.
- The different important debates in Political Theory. Concepts like Liberty, Equality, Justice and Rights.
- To reflect upon some of the important debates in political theory.

**B. A. I Semester**

**Open Elective OE - HUMAN RIGHTS**

- This course aims to introduce the students to basic concepts and practices of Human Rights in the global and local domain.
- This course also exposes them to certain recent issues confronting the Human Rights debates

**Learning Outcomes:** After completing this course students will be able to.

- Explain the basic concept of Human Rights and its various formulations.
- Have necessary knowledge and skills for analyzing, interpreting, and applying the Human Rights standards and sensitize them to the issues.
- Develop ability to critically analyse Human Rights situations around

**B. A. II Semester**

**DSC 3 WESTERN POLITICAL THOUGHT**

- The Syllabus is designed to understand Political Philosophy, traditions that evolved in Europe from Ancient to the beginning of modern thinker's era.
- To examine the contributions of the Greek, Medieval and early Modern Philosophical thought

**At the end of the course, students will be able to understand:**

- And get an introduction to the School of Political Thought and Theory Western Thinkers
- And introduce the richness and variations in the political perceptions of
- And familiarize themselves to the Thought and Theory of Western Philosophy

### **B. A. II Semester**

#### **DSC - 4 INDIAN NATIONAL MOVEMENT AND CONSTITUTIONAL DEVELOPMENT**

- To familiarize the students with the ideas of Nationalism and contemplate on how colonial rule was overthrown by the Indian Nationalists.
- To acquaints the students with the problems of Independent India.
- To enable the students to understand the role of India in World affairs and the contributions of them great men towards freedom.

**At the end of the course, students will be able to:**

- Understand how the colonial rule was overthrown 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.

### **B. A. II Semester**

#### **Open elective -2 INDIAN POLITY: ISSUES AND CONCERNS**

To make the students aware on different issues that exists in Indian polity. Through this paper students need to understand the emerging issues and their causes to the Indian Democracy.

**At the end of the course, students will be able to:**

- Understand the reasons behind the causes of these issues and also the constitutional provisions that existed.
- Familiarize with the debates that emerged.
- Be able to suggest the measures to control such issues.

### **B. A. III Semester**

#### **Indian Political Process**

At the end of the course, students will be able to:

- Actual politics in India diverges quite significantly from constitutional legal rules.
- An understanding of the political process thus calls for a different mode of analysis.
- This course maps the working of modern institutions, premised on the existence of an individuated society

### **B. A. IV Semester**

#### **Modern Governments**

- This paper is an introduction to organs of government machinery and Representation.
- This paper exposes students to few constitutions of the world.

- These constitutions are to be studied in light of the political processes to gain understanding of the dynamics of actual politics and policy making in these countries.

### **B. A. V Semester**

#### **Western Political Thinkers**

- This course goes back to Greek antiquity and familiarizes students with the manner in which the political questions were first posed.
- Machiavelli comes as an interlude inaugurating modern politics followed by Hobbes and Locke. This is a basic foundation course for students.

### **B. A. V Semester**

#### **Public Administration**

- The course seeks to provide an introduction to the interface between public policy and administration in India.
- It emphasizes issues of democracy, social welfare and financial accountability from a non-western perspective.

### **B. A. VI Semester**

#### **International Relations**

- This Course is designed to give students a sense of some important theoretical approaches to understand international relations.
- An outline of the evolution of Indian foreign policy since independence and its possible future
- Trajectory are been discussed here.

### **B. A. VI Semester**

#### **Project Work**

Guidelines for Project Work Objectives:

- To provide an opportunity for students to apply theoretical concepts in real life situations at the work place.
- To sensitize students to the nuances of corporate culture and familiarize them with the corporate code of behavior.
- To enable students to manage resources, work under deadlines, identify and carry out specific goal oriented tasks.
- To enable students discover their professional strengths and weaknesses and align them with the changing economic and business environment.
- To sharpen domain knowledge and provide cross functional skills.
- To expose the students to the current economic and business environment.
- To learn apply multidisciplinary concepts, tools and techniques to solve organizational problems
- To understand the processes involved in the working of the various functional departments of the organization.
- To know the current status of a particular economic / business / NGO.

**A.D.B. First Grade College, Harapanahalli**

**Course Outcomes (CO's)**

**DEPARTMENT OF ECONOMICS**

**B.A. I Semester**

**DSC1 Basic Economics**

1. Identify the facts of an Economic Problem.
2. Explain the operation of A Market System.
3. Analyze the Production and Cost relationship of a firm.
4. Understanding the pricing strategies.

**B.A. I Semester**

**DSC2 Indian Economy**

1. To enable the students to have an understanding of the various issues of the Indian Economy.
2. To enable the students to comprehend and critically appraise current issues and problems of Indian economy.
3. The focus of this course is on the development of Indian Economy since Independence.
4. To understand the importance of planning undertaken by the government of India.

**B.A. I Semester**

**OEC2 Basics of Indian Economy**

1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.
2. Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development..
3. Trace the Evolution of Indian Economy.
4. Review various economic policies adopted.

**B.A. II Semester**

**DSC3 Principles of Economics**

1. Understand the operation of the overall economic system.
2. Calculate the National Income and related aggregates.
3. Explain the relationship between macroeconomic aggregates.

**B.A. II Semester**

**DSC4 Karnataka Economy**

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.

### **B.A. II Semester**

#### **OEC2 Business Environment.**

1. Explain the elements of Business environment.
2. Identify the environmental constraints in the growth of a business firm.
3. Analyze the ways to utilize the current environmental conditions to achieve higher Business growth.

### **B.A. III Semester**

#### **CORE 301 Macroeconomics**

1. To give an insight to the students about the basic concepts used in Macroeconomics.
2. To enable the students to understand the theoretical framework and the working of an economy as a whole.
3. To suggest the policy alternatives used in controlling the economy.
4. To explain the process of calculating national income, identify its components, demonstrate green accounting and social accounting.

### **B.A. III Semester**

#### **OEC 302 Basics of Indian Economy.**

1. Develop ideas of the basic characteristics of Indian economy, its potential on natural resources.
2. Understand the importance, causes and impact of population growth and its distribution, translate and relate them with economic development.
3. Students will be able to understand and identify the economic variables in general business atmosphere.

### **B.A. IV Semester**

#### **CORE 401 International Economics**

1. Understand the effect of international trade on welfare and income distribution.
2. Analyze the role of firm heterogeneity in international trade.
3. Interpret the relationship between international trade and regional inequality.

Discuss price levels, output and exchange rates in the long and short run.

### **B.A. IV Semester**

#### **OEC 402 Financial Markets**

1. Understand the role and importance of the Indian financial market.
2. Apply and analyze the Concepts relevant to Indian financial markets and financial institutions.

3. This paper enables them to know the operation of the Indian financial System and activities in the financial markets.
4. It intends to familiarize the students with the basic concepts in financial economics.

### **B.A. V Semester**

#### **CORE 5.1 Public Economics**

1. To provide basic information to students on the scope, significance and functions of government.
2. A general understanding about fiscal policy and its various instruments.
3. To give an awareness about budgeting with special reference to India.

### **B.A. V Semester**

#### **CORE 5.2.1 Managerial Economics**

1. Develop an understanding of the applications of managerial economics.
2. Interpret regression analysis and discuss why it's employed in decision-making.
3. Discuss optimization and utility including consumer behavior. Assess the relationships between short-run and long-run costs.

### **B.A. VI Semester**

#### **CORE 6.1 International Economics**

1. To understand the basic concepts of international trade.
2. To enable the students to have a basic understanding of the emerging trend, issues and policies in the field of international economic system.
3. The student will be acquainted with economic concepts and models of international trade
4. Student will become aware about international trade blocks and their importance.

### **B.A. VI Semester**

#### **CORE 6.2.1 Economics of Development and Growth.**

1. To enable the students to understand the basic concepts of Development and Growth.
2. It also intends to provide the theoretical framework for growth and development discourses under different schools of economic thought and a better insights and knowledge on issues and challenges on economic development.



**A.D.B. First Grade College, Harapanahalli**

**Course Outcomes (CO's)**

**DEPARTMENT OF EDUCATION**

**B.A. I Semester**

**DSC 1 Philosophical Foundations of Education**

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

1. Understand the Concept, Process and Scope of Education
2. Understand the need and significance of philosophical framework to education;
3. Know the fields of philosophy and their relevance to education
4. Understand the perspectives of Indian and Western Schools of philosophy concerning education
5. Appreciate the contribution of Indian philosophy and western philosophy to education
6. Develop philosophical insight for resolution of educational issues.
7. Critical appraisal of contributions made to education by prominent educational thinker
8. Appreciate the Contributions of Indian and Western Philosophers.
9. Appreciate the role of Philosophy in Human Development.

**B.A. I Semester**

**DSC 2 Development of Education on India**

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

1. Understand the nature of Indian society as it has evolved from the past.
2. Enable critically appraises the effect of British period on Indian education.
3. Appreciate application and Indian constitution provisions.
4. Recognize the salient features of the various systems of education that prevailed in India in the past. 5) Compare and contrast the Vedic, Buddhist, Medieval and Contemporary systems of Education.
5. Appreciate the great educational heritage of India.
6. Make a critical analysis of the different systems that prevailed in India at various points of time.
7. Synthesize the various beneficial aspects of the different systems.

**B.A. II Semester**

**DSC 3 Sociological Foundations of Education**

At the end of the course, students will be able to:

1. Understand the meaning of sociology and Education and realize its pertinence to Education.
2. Recognize the facts and forms of Culture.

3. Understand the sociological perspectives in education.
4. Understand the importance of Globalization, privatization and liberalization on education
5. Make an attempt to bring social change through the process of Education.
6. Become aware of the different social factors that influence education.
7. Become aware of the processes of social change and their impact on education.
8. Critically examine the issues and concerns of education in the socio-economic context of India.

### **B.A. II Semester**

#### **DSC 4 Psychological Foundation of Education**

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

1. Acquire the understanding of meaning and importance of Education and Psychology and their interrelationship.
2. Understand the theories of learning and acquaint with different models and strategies of learning and in turn apply them for better Learning.
3. Gain insight into the concept of intelligence and its theories and Apply them in psychological research.
4. Acquire knowledge regarding the concept and types of Motivation.
5. Apply the knowledge of memory, types of memory, factors
6. Influencing for intensive memory in their life.
7. Apply the knowledge of principles, techniques of educational Psychology in developing the integrated personality.

### **B.A. III Semester**

#### **Understanding Human Development and Differences**

Upon completion students will

1. Understand the power of perceptions on attitude, behavior and motivation.
2. Examine, choose and prioritize key values from a list of societal and personal values.
3. Examine self-talk and analyze the impact on motivation and supporting identified values.
4. Assess and use introduced tools to examine and change messages.
5. Use personal awareness to prioritize actions and diminish procrastination.
6. Develop an internal dialogue to support the accomplishment of personal and professional goals Plan and integrate a plan of action to increase motivation and reduce procrastination.

### **B.A. IV Semester**

#### **Understanding Human Potentialities**

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

1. Acquire the understanding of meaning and importance of Education and Psychology and their interrelationship.
2. Understand the theories of learning and acquaint with different models and strategies of learning and in

turn apply them for better Learning.

3. Gain insight into the concept of intelligence and its theories and apply them in psychological research.
4. Acquire knowledge regarding the concept and types of Motivation.
5. Apply the knowledge of memory, types of memory, factors influencing for intensive memory in their life.
6. Apply the knowledge of principles, techniques of educational Psychology in developing the integrated personality.

### **B.A. V Semester**

#### **Technology of Teaching**

1. Students will plan, develop, communicate, implement, and evaluate technology-infused strategic plans.
2. Students will maintain and manage a variety of digital tools and resources for use in technology-rich learning environment.
3. Students will design, develop, and implement technology-rich learning program that model principles of learning and promote digital age best practices in teaching, learning and assessment.
4. Students will demonstrate field experience in a working environment where educational technology services and programs are used or developed.

### **B.A. VI Semester**

#### **Educational Research**

1. Students should understand a general definition of research design.
2. Students should know why educational research is undertaken, and the audiences that profit from research studies.
3. Students should be able to identify the overall process of designing a research study from its inception to its report.
4. Students should be familiar with ethical issues in educational research, including those issues that arise in using quantitative and qualitative research.
5. Students should know the primary characteristics of quantitative research and qualitative research.
6. Students should be able to identify a research problem stated in a study.
7. Students should be familiar with how to write a good introduction to an educational research study and the components that comprise such an introduction.
7. Students should know the steps in the process of quantitative data collection.
8. Students should be able to distinguish between a population and a sample.

9. Students should know the various types of quantitative sampling and which ones present the most rigorous approach to use.
10. Students should understand the link between quantitative research questions and data collection and how research questions are operationalized in educational practice.
11. Students should be familiar with the steps involved in identifying and selecting a good instrument to use in a study

## **A.D.B. First Grade College, Harapanahalli**

### **Course Outcomes (CO's)**

#### **DEPARTMENT OF ENGLISH**

The Department of English of **ADBC** seeks to foster the intellectual development of its students by encouraging study of literature and writing. The Department strives to make its pass and honours programme students familiar with a wide range of works of Indian, American, British writers in particular and World literature in general with a special focus on Indian writings in English. The issues of culture, history, gender, race, ethnicity, politics are addressed and negotiated in the process of imparting knowledge of English literature in its pluralistic forms, to help student develop a critical mindset of their own.

#### **B.A. 1<sup>st</sup> Semester**

##### **DSC1: Introduction to English Literature**

After Completion of this Course Students will be able to ...

- Know the process of beginning and growth of English Literature
- Know about various innovative works in English Literature
- Write clearly, effectively, and creatively, and adjust writing style appropriately to the content, the context, and nature of the subject.
- Think about the relation between language and literature
- Correctly define commonly used literary terms and concepts and use those terms and concepts to discuss and analyse works of literature.
- Identify structural elements of works of poetry, fiction, and drama, and analyse how those elements help create specific meanings and effects.
- Compare works of literature in terms of theme, structure, and use of literary devices
- Students will gain an understanding of the development of literature
- To appreciate literary form and structure in shaping a text's meaning

##### **DSC2: Indian Literature in English up to 1947**

- Student will learn Indian English literature development in pre-independence India important writers, social reformer and their prominent text which play important role in development of Indian English literature. Writers like:- Toru dutt, Aurobindo, Swami Vivekananda, Mahatma Gandhi, Dr.b.r. Ambedkar, Rabindranath tagore, Nirad C chaudhari, Henry derozio, Dean mahamet.
- Identify the historical trajectories of various genres of Indian Writing English
- Critically engage with Indian Writing English from various historical and social positions

- Students will gain an understanding about the Indian freedom struggle initiated by Mahatma Gandhi in the early 20th century. The novel reflects Gandhian struggle for independence against the British reached to a characteristic South Indian village Kanthapura.
- Student will learn about the various historical trajectories of various genres of IWE

### **B.A. 2<sup>nd</sup> Semester**

#### **DSC 3 : Introduction to Phonetics and Linguistics**

At the end of the course student able to understand concept of linguistic part such as

- Definition of Language , Meaning of Language , Origin and Development of Language and Theories of Origin of Language
- Linguistics - Nature , Definition and Branches of Linguistics.
- Phonetics and Phonology : Classification of Speech Sounds - Vowels and Consonants , Word stress
- Morphology - Morph - Word Classes : Lexical Categories , Functional Categories.
- Students will be familiar with the basic symbols of the International Phonetic Alphabet, including all those symbols needed to describe English
- Students will understand something of the relationship between the sounds of speech and the abstract linguistic system that underlies them, as well as the relationship of phonetics and phonology to the wider linguistic system
- Students will understand the basic structure of sound systems across languages, and the ways in which this is established analytically
- Students will know some of the types of unit that are commonly used in phonology, such as phonemes and features
- Students will be familiar with some common phonological phenomena and formal accounts of them, including a range of notational devices such as rules and hierarchical representation

#### **DSC4: Post Independent Indian writing in English**

After the completion of this course,

- The participants would gain insight into 'Indianness' through representative works.
- Students will be able to - Appreciate the historical trajectory of various genres of Indian Writing in English from colonial times to till the present
- Analyze Indian literary texts written in English in terms of colonialism, post-colonialism, regionalism, and nationalism
- Understand the role of English as a medium for political awakening and the use of English in India for creative writing.
- Analyze how the sociological, historical, cultural and political context impacted the texts selected for study
- Analyse the strength and constraints of Indian English as a literary medium.

- Evaluate critically the contributions of major Indian English poets and dramatists
- Develop a literary sensibility and display an emotional response to the literary texts and cultivate a sense of appreciation for them
- Apply the ideas encapsulated in Indian Aesthetics to literary texts

### **B.A. 3<sup>rd</sup> Semester**

#### **Neo-Classism and Romanticism**

After Completion of this Course Students will be able to ...

- Read and understand about the rich Neo-classism texts from Greco-Roman literatures as well as Indian literatures
- Trace the nature of influence that all the classical texts have on modern English literatures both in British and Indian writings in English.
- Appreciate these texts as a source of great wisdom.
- Interpret these texts from contemporary points of view.
- Tells the significant features of the Romantic poetry (Romanticism).
- Recalls the historical and social events of the Romantic Period.
- Identifies the literary terms.
- Recognizes the significant features of the Romanticism.
- Determines the importance of the particular poem in its historical and social context.
- Demonstrates the aspects of Romanticism in the sample poems.
- Analyzes different poems of the Romantic Poetry.
- Explains the life and the significance of the poet of the poem to be analyzed

### **B.A. 4<sup>th</sup> Semester**

#### **Victorian Age**

After completing this course, students will be able to understand concept of Victorian Age

- Students are familiar with a range of both central and more obscure Victorian texts, and have an analytical knowledge of some aspects of Victorian literature and culture.
- Know how to use primary and secondary sources to explore relevant historical and cultural contexts, and how to use those contexts to inform your readings of literary texts.
- Students are able to engage critically with other literary critics and theorists.
- To know the major literary trends during the Victorian Age and to familiarize
- Students will understand the social and the literary movements such as Decadence, Imagism, Symbolism, Oxford Movement, Aestheticism and the Pre-Raphaelites.
- Students are able to understand the the explore deeper the pre-eminence of the novel as a vehicle of social reform, contemporary sensibility and the conduit for the construction of peoples and cultures from overseas colonial territories.

- To sensitize students to the dense, complex and dialectical relation between the colonial and the colonized populations.
- To expose how literature, especially fiction, documented nuanced aspects of social groups and division of labour.

### **B.A. 5<sup>th</sup> Semester**

#### **Paper – 5<sup>th</sup> Victorian literature-Part 1**

The student will be able to...

- Identify the major themes and characteristics of Victorian literature.
- Interpret and analyze the works of major Victorian poets including Tennyson, Brownings, Arnold, Hopkins, Emily Bronte, Rossetti, Swinburne, and others.
- Interpret and analyze representative novels and plays of the Victorian era.
- Connect the works of major Victorian writers to their social and historical backgrounds.
- Analyze and explain representative intellectual currents of the Victorian era.

#### **Paper – 6<sup>th</sup> Victorian literature-Part -2**

- Ability to determine the factors that contributed to the formation of the early novel in Britain, along with an understanding of the issues and concerns framing the novel.
- Ability to make oral presentations and write well researched critical essays on the novel in Victorian England.
- A comprehensive understanding of the themes, issues, and contexts framing Victorian poetry.
- A study of the inter-relationship between poetry and other arts like the visual arts.
- A knowledge of the drama and essays that determined the contours of Victorian culture.
- A knowledge of the form, concerns and style of the Victorian essay

#### **Paper 7<sup>th</sup> Modern Indian Literature in English**

- An understanding of the early beginnings of Indian English writing.
- A knowledge of the concerns of nation, nationalism, diaspora and novelistic form of the Indian English novel.
- A study of the important playwrights who shaped theatre in India.
- An ability to use literary theory to study literature from the sub-continent.
- An ability to make oral presentations and write well researched critical essays on Indian literature.

### **B.A. 6<sup>th</sup> Semester**

#### **Paper 8<sup>th</sup> LITERARY THEORY**

After Completion of this Course Students will be able to ...

- Learn the history of literary criticism and various literary theories.
- Apply critical and technical theory and vocabulary to describe and analyze, and



- Formulate an argument about literary and other texts.
- Think about the non-fixity of meaning of literary texts. Develop a skill in applying various literary theories in interpreting a specific text.
- A comprehensive understanding of the major trends in literary theory from structuralism and post structuralism, to post colonialism and feminism.
- An ability to comprehend the major theoretical movements in the field of literary studies, and to deploy them in the analysis of literary texts.
- An ability to make oral presentations and write well researched critical essays on literary theory.

### **Paper 9<sup>th</sup> TWENTIETH CENTURY LITERATURE – 1**

After completing this course, students:

- Have a sophisticated understanding of the relationship between literary texts and social structures,
- Know the cultural, political, and stylistic protocols of modernism and its various literary movements,
- Can read texts closely, and know how to read both formal and thematic aspects of texts as part of larger cultural and historical movements.
- Understand the relationship between literary texts and social structures,
- Know key texts in English since the end of the twentieth century,
- Know how to read texts closely,
- Know how to read both formal and thematic aspects of texts in relationship to larger cultural and historical movements.

### **Paper 10<sup>th</sup> TWENTIETH CENTURY LITERATURE – 2**

- Studying different aspects of drama, its development throughout ages and how in the early and mid-20th century it goes through a radical change.
- Understanding the insights, genres, conventions and experimentations associated with Modern English Drama, the knowledge of historical, socio-political, and religious trends in the plays.
- Demonstrating the ability to contextualize the works of modern drama, interpret the thematic and stylistic elements of the plays and appreciate the literary worth. social relevance and timeless appeal of the plays
- Drawing from the works of Wole Soyinka, Pablo Neruda, Aaiz Ahmed Faiz, C.P.Snow, Arthur Miller, Chinua Achebe understanding of important terms.
- Explaining various literary terms related to Drama, Novel, Epic and identifying unique features of each literary type by comprehending its characteristics and conventions.

**A.D.B. First Grade College, Harapanahalli**  
**Course Outcomes (CO's)**

**DEPARTMENT OF KANNADA**

**B.A, I Semester**

**DSC 1 ಪ್ರಾಚೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ  
(ಆರಂಭದಿಂದ ಹತ್ತನೆಯ ಶತಮಾನದವರೆಗೆ)**

1. Getting to know a student there is evidence that references to Kannada land, language, and culture existed in ancient times.
2. Explain the Kannada script, Kannada antiquity.
3. Students know about other works of this period that include stone inscriptions, copperplate inscriptions, and palm engravings.
4. Students learn about in this section, information about Kannada literary history, Kannada poets, and Kannada works is comprehensive.

**B.A, I Semester**

**DSC 2 ಮಧ್ಯಕಾಲೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ.**

1. Realizing the importance of social equality through the study of Vachan literature.
2. Walking on the ground of secularism.
3. Cultivating virtues of surrender like equality, simplicity, fraternity, kindness, charity, etc.
4. Sharanas, Dasas can develop honest life and sense of Kayaka and Dasoha while advancing in any government post and political religious field.

**B.A, II Semester**

**DSC 3 ಮಧ್ಯಕಾಲೀನ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ**

**ಭಾಗ- 2 (ಕ್ರಿ.ಶ ಹದಿನಾರನೇ ಶತಮಾನದಿಂದ ಹದಿನೆಂಟನೆಯ ಶತಮಾನದವರೆಗೆ)**

1. To know the simple language of common people and to know various literary genres and poetry mainly.
2. By knowing the nature of vachana, kirtana, and shatakas, students can be inspired by the study of these genres until they become good literature in the future.
3. To know the importance of life literature.
4. Many students may be converted by the fact that literature is not only for literature but also for livelihood.
5. From this study, it is found that these types of supplementary factors are very helpful for competitive examinations among students.

## **B.A, II Semester**

DSC 4 ಆಧುನಿಕ ಪೂರ್ವ ಕನ್ನಡ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ  
(ಹೊಸಗನ್ನಡ ಸಾಹಿತ್ಯದ ಪ್ರಾರಂಭಿಕ ಕಾಲಘಟ್ಟಗಳು ಕ್ರಿಸ್ತಶಕ ಹದಿನೆಂಟು ಮತ್ತು ಹತ್ತೊಂಬತ್ತನೇ ಶತಮಾನದ ಸಾಹಿತ್ಯ ಚರಿತ್ರೆ)

1. To learn about the history of Kannada in the 18th and 19th centuries.
2. Students can learn a lot about the royal families who ruled Kannada.
3. The journalism and printing works established in this country by Christian missionaries, primarily dictionaries, have become a supplement to the lives of students.
4. This literature is helpful for competitive exams.

## **B.A, III Semester**

ಹಳಗನ್ನಡ ಸಾಹಿತ್ಯ

1. Students will meditate on the life and literature of old Kannada poets.
2. To make students become good speakers and to know the old reading system.
3. If Gamaka is sung continuously, students can emerge as good musicians in future.
4. This literary practice will complement any government profession.
5. People's life, culture can complement people of all classes.

## **B.A, IV Semester**

ಭಾರತೀಯ ಹಾಗೂ ಪಾಶ್ಚಿಮಾತ್ಯ ಕಾವ್ಯ ಮೀಮಾಂಸೆ.

1. Learn about the life and literature of Indian and Western scholars.
2. It is helpful for students to know the benefits of composing poetry.
3. Students can understand the importance of decorations and types of rasas and their importance.
4. Students can get to know the literary thoughts of Western scholars.
5. This literature is helpful for students for competitive exams.
6. Becoming a Kannada language teacher is very easy.

## **B.A. V Semester**

5.1: ಕನ್ನಡ ಭಾಷೆಯ ಬಳಕೆಯ ಬಗೆಗಳು

1. Grammar can grow in future if the importance of grammar is normalized.
2. Students develop interest in grammar, speaking, writing and reading.
3. Students can learn word order and punctuation very effectively.
4. Translation test can be effectively tackled in PSI Exam in future.
5. Literary grammar is useful for the life of students and the path to government job or private job is smooth.

## **B.A. V Semester**

### **5.2: ಕನ್ನಡ ಸಾಹಿತ್ಯ ವಿಮರ್ಶೆ**

1. It is helpful for students to measure any material and idea from a critical point of view.
2. Students will be able to understand the lifestyle of many writers by studying criticism.
3. The path to employment will be smooth for the students.
4. It helps the students to develop a thinking attitude to emerge as a good person in the society.
5. It helps the students to face any difficulties in the future.

## **B.A. VI Semester**

### **6.1: ಕನ್ನಡ ಭಾಷಾ ರಚನೆಯ ಸ್ವರೂಪ.**

1. Students should develop language skills.
2. Along with writing, they understand the taste of literature in many languages.
3. Here is a golden opportunity to become a good reporter with exposure to various media.
4. Writing, reading and editing the news will complement the knowledge of the students.
5. After graduation, students can become a reporter for a report, becoming an editor is also beneficial for their future in many ways.

## **B.A. VI Semester**

### **6.2: ತೌಲನಿಕ ಅಧ್ಯಯನ.**

1. Students will know the concept of comparative study.
2. It is helpful to develop knowledge at the international level by special study of various national languages and works of poets.
3. Students engage in disciplinary study from comparative studies.
4. The ingenuity of the director guides the students while bringing the literary work into film form.
5. There are always opportunities for students to get jobs in the translation department.

**A.D.B. First Grade College, Harapanahalli**  
**Course Outcomes (CO's)**

**DEPARTMENT OF COMMERCE**

**B.Com. I Semester- S C 1.4**

**Financial accounting-I**

On the successful completion of the course, students will be able:

1. To equip the students with the skill of preparing accounts and financial statements of various types of business units.
2. To introduce the single entry system of accounts.
3. To enable the students with the skill of preparing royalty , consignments accounts.
4. To familiar with the procedure involved in the farm accounts.

**B.Com. I Semester- S C 1.5**

**Management Principles and Applications.**

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

1. Understand the concept related to the management
2. Demonstrate the roles, functions and applications of management.
3. Understand the complexities associated with human resources in the organizations and integrate the learning in handling these complexities.

**B.Com. I Semester- S C 1.6**

**Principles of marketing.**

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

1. Demonstrate understanding of marketing terminology and concept.
2. Demonstrate the knowledge of individual components of marketing mix.
3. Identifies the organizational process of involving in the marketing activities.
4. Overall students will demonstrate the skill about marketing area.

**B.Com. II Semester- S C 2.4**

**Law and practice of banking.**

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

1. Acquire a fundamental knowledge of the term banker, customer, promissory notes cheques..
2. Understand the concept of banking, Relationship between banker and customer, duties of banker.
3. Understand the types of accounts and loans.
4. Understand the recent developments in banking system.
5. Understand the Indian banking system and role of RBI and role of commercial banks in Indian economy.

### **B.Com. II Semester- S C 2.5**

#### **Corporate Administration.**

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

1. To understand the fundamental concept of company
2. To understand the importance of companies act 2013.
3. The stages involved in the formation of company along with relating to the content of legal document to incorporate a company.
4. Provisions of different types of corporate meetings and resolutions.
5. Students have know about global companies and their administration.

### **B.Com. II Semester- S C 2.6**

#### **Financial accounting -II**

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

1. Appreciate the need for negotiable instruments and procedure of accounting for bills honored and dishonored.
2. Differentiate trade bills from accommodation bills.
3. Distinguish between single entry and double entry system.
4. Learn to prepare receipts and payments accounts, income and expenditure account, and balance sheet for nonprofit organizations.

### **B.Com. III Semester- S C 3.4**

#### **Corporate Accounting-I**

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

1. Acquire a knowledge in company accounts, definitions of shares ,debentures, good will, underwriting, types of shares.

2. Understand the accounting treatment in issue of shares at discount, at par, at premium.
3. Develop the application skill to computation of pro-rate allotment, profit and loss accounts with balance sheet.
4. Analytical skill in calculation of underwriter commission, value of shares and liquidators final statement.

### **B.Com. III Semester- S C 3.5**

#### **Quantitative techniques-I**

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

1. Understand the various quantitative and statistical method.
2. Understand the data and draw inference from data.
3. Be able to perform statistical information.
4. Demonstrate a sound knowledge of quantitative methods.

### **B.Com. III Semester- S C 3.6**

#### **Marketing management.**

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

1. Acquire the knowledge of market, marketing mix, product mix, price mix.
2. Familiarize the classification of markets, product life cycle, and product segmentation. Price fixing.
3. Acquire the knowledge about distribution channels.
4. Acquire the knowledge about modern marketing..

### **B.Com. IV Semester- S C 4.4**

#### **Corporate accounting-II**

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

1. Acquire a knowledge about company accounts.
2. Understand the accounting treatment in amalgamation, preparation of revenue accounts, consolidated balance sheet.
3. Gain a knowledge in preparation of company accounts, bank accounts, insurance company accounts ,and holding company accounts.

## **B.Com. IV Semester- S C 4.5**

### **Quantitative Techniques-II**

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

1. Calculate and interpret the correlation between two variables.
2. Calculate the simple linear regression equation for a set of data.
3. Know the association between the attributes, and time series.
4. Know about the index number in statistics.

## **B.Com. IV Semester- S C 4.6**

### **Corporate law and secretarial practice.**

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

1. Effective communication on complex of corporate activities in association with corporate community and with society at large
2. Apply ethical principles and committee to corporate ethics, responsibilities and norms of the corporate practice.
3. To prepare learners to face modern day challenges in the corporate world by providing practical exposure.
4. Depth grounding I n the corporate sector.

## **B.Com. V Semester- S C 5.3**

### **Fundamentals of statistics.**

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

1. Organize, manage and present data
2. Analyse the statistical data graphically using frequency distribution.
3. Analyse the statistical data using measures of central tendency, dispersion and location
4. Know about the data collection and know about all the statistical fundamentals.

## **B.Com. V Semester- S C 5.4**

### **Financial management**

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

1. Explain the concept of fundamentals and financial concepts.
2. To know about the capital budgeting, and ways of raising of capital



3. To know about the ratio analysis.
4. In depth view of process In financial management of the firm.

### **B.Com. V Semester- S C 5.5**

#### **Elements of costing.**

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

1. Acquire the basic knowledge on cost accounting concepts, elements and classification of cost .
2. Understand the techniques of costing, preparation of cost sheet, need for material control, labour control, methods of calculation of labour turn over.
3. Develop the application skill in drafting a cost sheet, estimation of tender, EOQ , methods of valuing material issue.
4. Analyse the various system of wage payment and methods of operating costing.

### **B.Com. V Semester- S C 5.6**

#### **Business mathematics.**

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

1. Explain the concepts and uses of equations, mathematical expressions and relationships in a variety of context.
2. Apply the knowledge in mathematics in solving business problems.
3. Analyse and demonstrate mathematical skills required in mathematically intensive areas in economies and business.
4. Integrate concept in international business concepts with functioning of global trade.

### **B.Com. V Semester- S C 5.7**

#### **New venture creation and management.**

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

1. Identify opportunities and the drivers of new venture creation
2. Summarize techniques of identifying new venture opportunities.
3. Create a comprehensive new venture proposal with supporting documentation
4. Integrate new venture concepts and techniques pitch to an investor panel.

### **B.Com. V Semester- S C 5.8**

#### **Business Taxation.**

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

1. Students would identify the technical term related to Income Tax.
2. Students would determine the residential status of an individual and scope of income.
3. Students would compute the income from salaries, house property, business profession, capital gain, and other sources.
4. Students would acquire the knowledge about the various benefits and deductions of income tax act.

### **B.Com. VI Semester- S C 6.2**

#### **Statistical Methods.**

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

1. Calculate and interpret the correlation between two variables.
2. Calculate the simple linear regression equations for a set of data.
3. To know the index numbers, Time series calculation.
4. Evaluate the properties of estimates.
5. To know about the probable error for variables.

### **B.Com. VI Semester- S C 6.3**

#### **Management Accounting.**

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

1. Apply management accounting and its objectives in decision making.
2. Analyze the cost-volume -profit techniques to determine the optimal managerial decisions.
3. Prepare Analyse of various special decisions, using relevant management techniques.
4. Calculate various accounting ratios, reports and relevant data.
5. Prepare cash flow, fund flow statements.

## **B.Com. VI Semester- S C 6.4**

### **Methods and Techniques of Costing.**

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

1. Students would classify cost and would be able to prepare cost sheet for manufacturing and trading concerns.
2. Students would reconcile cost and financial statements.
3. Students would be able to prepare Accounts related to costing.
4. Students would be able to prepare contract accounts, process costing.

## **B.Com. VI Semester- S C 6.5**

### **Auditing and Assurance.**

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

1. Acquire the knowledge on audit of receipts, purchases, sales, and other ledgers.
2. Understand the concepts of company audit, branch audit, special audit and government audit.
3. Develop the application skill on prepare of audit reports.
4. Analyse the role of auditor- qualification, powers, roles and responsibilities.
5. Gain knowledge about listing of audit procedure for various undertakings.

## **B.Com. VI Semester- S C 6.6**

### **Organizational Behavior**

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

1. Demonstrate the applicability of the concept of organizational behavior to understand the behavior of people in the organization.
2. Demonstrate the applicability of analyzing the complexities associated with management of individual behavior in the organization.
3. Analyze the complexities associated with management of group behavior in the organization.
4. To know about the organizational culture, change.
5. Demonstrate how the organizational behavior can integrate in understanding the motivation behind behavior of people in the organizations.

## **B.Com. VI Semester- S C 6.7**

### **Goods and service tax and Customs act.**

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

1. Acquire the knowledge of indirect taxes. GST, CGST, SGST, IGST.
2. Familiarize and understand the concept of direct and indirect taxes.
3. Evaluate the taxation system before and after implementation of GST.
4. Evaluate the taxes subsumed under SGST and CGST, eligibility and conditions for taking input credit, place of supply of goods or services.