

NATIONAL EDUCATION POLICY -2020

OUTCOME BASED EDUCATION SYSTEM

PROGRAM OUTCOMES

BACHELOR OF COMMERCE(B.COM)

1. This program could provide Industries, Banking Sectors, Insurance Companies, Financing companies, Transport Agencies, Retail sector, Ware housing etc., well trained professionals to meet the requirements.
2. After completing graduation, students can get skills regarding various aspects like Marketing Manager, Human Resource Manager, over all Administration abilities of the Company.
3. Capability of the students to make decisions at personal & professional level will increase after completion of this course.
4. Students can independently start up their own Business.
5. Students can get thorough knowledge of finance and commerce. The knowledge of different specializations in Accounting, Costing, Banking, Taxation and Finance with the practical exposure helps the students to stand in organization.

BSC MATHEMATICS

By the end of the program it is expected that the students will be benefited by the following:

PO1: Disciplinary Knowledge: Bachelor degree in Mathematics is the culmination of in-depth knowledge of Algebra, Calculus, Geometry, differential equations and several other branches of pure and applied mathematics. This also leads to study the related areas such as computer science and other allied subjects

PO 2: Communication Skills: Ability to communicate various mathematical concepts effectively using examples and their geometrical visualization. The skills and knowledge gained in this program will lead to the proficiency in analytical reasoning which can be used

for modeling and solving of real life problems.

PO 3: Critical thinking and analytical reasoning: The students undergoing the programme acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real life problems.

PO 4 : Problem Solving: The Mathematical knowledge gained by the students through the programme develop an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This programme enhances students overall development and also equip them with mathematical modelling ability, problem solving skills.

PO 5: Research related skills: Student completing the program will develop the capability of inquiring about appropriate questions relating to the Mathematical concepts in different areas of Mathematics.

PO 6: Information/digital Literacy: The completion of the programme will enable the learner to use appropriate softwares to solve system of algebraic equation and differential equations.

PO 7: Self-directed learning: Student completing the program will develop an ability of working independently and to make an in-depth study of various notions of Mathematics.

PO 8: Moral and ethical awareness/reasoning: The student completing the program will develop an ability to identify unethical behavior such as fabrication, falsification or misinterpretation of data and adopting objectives, unbiased and truthful actions in all aspects of life, in general and Mathematical studies, in particular.

PO 9: Lifelong learning: The programme provides self-directed learning and lifelong learning skills. The programme helps the learner to think independently and develop algorithms and computational skills for solving real word problems.

PO 10: Ability to peruse advanced studies and research in pure and applied Mathematical sciences.

BSC (HONORS) CHEMISTRY

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

1. To create enthusiasm among students for Analytical chemistry and its application in various fields of life.
2. To provide students with broad and balanced knowledge and understanding of key concepts in Analytical chemistry
3. To develop in students a range of practical skills so that they can understand and assess risks and work safely measures to be followed in the laboratory.
4. To develop in students the ability to apply standard methodology to the solution of problems in chemistry
5. To provide students with knowledge and skill towards employment or higher education in Analytical chemistry or multi-disciplinary areas involving Analytical chemistry.
6. To provide students with the ability to plan and carry out experiments independently and assess the significance of outcomes and to cater to the demands of chemical Industries of welltrained graduates
7. To develop in students the ability to adapt and apply methodology to the solution of unfamiliar types of problems.
8. To instil critical awareness of advances at the forefront of chemical sciences, to prepare students effectively for professional employment or research degrees in chemical sciences and to develop an independent and responsible work ethics

Bachelor of Computer Applications(BCA)

Syllabus facilitates the students to achieve the following.

1. To develop an understanding and knowledge of the basic theory of Computer Science and Information Technology with good foundation on theory, systems and applications such as algorithms, data structures, data handling, data communication and computation
2. To develop the ability to use this knowledge to analyse new situations in the application domain
3. To acquire necessary and state-of-the-art skills to take up industry challenges. The objectives and outcomes are carefully designed to suit to the above-mentioned purpose.

4. The ability to synthesize the acquired knowledge, understanding and experience for a better and improved comprehension of the real-life problems
5. To learn skills and tools like mathematics, statistics and electronics to find the solution, interpret the results and make predictions for the future developments
6. To formulate, to model, to design solutions, procedure and to use software tools to solve real world problems and evaluate

COURSE OUTCOMES

BACHELOR OF ARTS(BA)

HISTORY

Semester 1

Course Title: Political history of Karnataka

Course Outcomes (COs):

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.

Course Title: Cultural Heritage of India

Course Outcomes (COs):

- 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

Course Title: Cultural History of Karnataka

Course Outcomes (COs):

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.

Semester 2

Course Title: Political History of Karnataka (C11- 1799 AD)

Course Outcomes (COs):

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

Course Title: Cultural Heritage of Karnataka

Course Outcomes (COs):

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”.

Course Title : Cultural History of Karnataka (11 AD to 1750 AD)

Course Outcomes (COs):

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 societyAnalyze
- the factors responsible for formation of pluralistic
- society Understand the concept “Unity in diversity”.

ECONOMICS

SEMESTER- I

Course Title: 1.5: Pre-Reforms Indian Economy (OEC)

Course Out comes(COs):

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

1. Trace the evolution of Indian Economy

2. Identify the structural features and constraints of the Indian economy
3. Evaluate planning models and strategy adopted in India
4. Analyze the sector specific problems and contributions towards overall economic growth
5. Review various economic policies adopted

Course Title: OEC 1.5: Business Economics (OEC)

Course Outcomes (OCs):

At the end of the course the student shall have:

1. Acquired the concepts, tools and techniques of economics in analysing and interpreting the business decisions.
2. Developed the insight of the functioning of the economy.

SEMESTER- II

Course Title: OEC 2.5:Contemporary Indian Economy

Course Outcomes (COs):

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

1. Understand the current problems of Indian Economy
2. Identify the factors contributing to the recent growth of the Indian economy
3. Evaluate impact of LPG policies on economic growth in India
4. Analyze the sector specific policies adopted for achieving the aspirational goals
5. Review various economic policies adopted.

Course Title: OEC 2.5: Monetary Economics

Course Outcomes (OCs) :

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

1. Understand the current monetary policy and problems
2. Identify and analyse monetary instruments

3. Review the various trends and functions of monetary and financial institution.

OPTIONAL ENGLISH

Programme Outcomes:

At the end of the B.A in English (Optional English)programme, the learners would:

1. Be able to demonstrate a broad knowledge of major and minor writers, texts and contexts defining issues of canonical and non-canonical literature
2. Be enriched by familiarity with other literatures and more importantly with Indian writers, their ethos and tradition of writing and discourse
3. Have honed their skills of remembering, understanding, applying, analyzing, and evaluating literature
4. Be able to write with clarity, creativity and persuasiveness
5. Develop and demonstrate an awareness of the significance of literature and literary forms
6. Be equipped with advanced literary and linguistic skills
7. Have competency in the use of English from /for a variety of domains
8. Have a spirit of inquiry and critical thinking
9. Be able to articulate thoughts and generate /understand multiple interpretations
10. Locate and contextualize texts across theoretical orientations and cultural spaces
11. Possess reading and writing skills catering to academic and other professional disciplines viz. print and electronic media, advertising, content writing etc.
12. Imbibe a multi-disciplinary approach in higher education and research
13. Be skilled in multiple domains and careers
14. Become adept at the use of English in current technological climate
15. Have hands-on work experience.

BACHELOR OF COMMERCE(B.COM)

I SEMESTER

Course Title: Financial Accounting

Course Outcomes:

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

- a) Understand the theoretical framework of accounting as well accounting standards.
- b) Demonstrate the preparation of financial statement of manufacturing and non-manufacturing entities of sole proprietors.
- c) Exercise the accounting treatments for consignment transactions & events in the book of consignor and consignee.
- d) Understand the accounting treatment for royalty transactions & articulate the Royalty agreements.
- e) Outline the emerging trends in the field of accounting.

Course Title: Management Principles and Applications

Course Outcomes:

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

- a) Understand and identify the different theories of organizations, which are relevant in the present context.
- b) Design and demonstrate the strategic plan for the attainment of organizational goals.
- c) Differentiate the different types of authority and choose the best one in the present context.
- d) Compare and choose the different types of motivation factors and leadership styles.
- e) Choose the best controlling techniques for better productivity of an organisation.

Course Title: Principles of Marketing

Course Outcomes:

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

- a) Understand the basic concepts of marketing and assess the marketing environment.
- b) Analyze the consumer behaviour in the present scenario and marketing segmentation.
- c) Discover the new product development & identify the factors affecting the price of a product in the present context.
- d) Judge the impact of promotional techniques on the customers & importance of channels of distribution.
- e) Outline the recent developments in the field of marketing

Course Title: Accounting for Everyone (open elective)

Course Outcomes:

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

- a) Analyze various terms used in accounting;
- b) Make accounting entries and prepare cash book and other accounts necessary while running a business;
- c) Prepare accounting equation of various business transactions;
- d) Analyze information from company's annual report;
- e) Comprehend the management reports of the company.

Course Title: Financial Literacy (open elective)

Course Outcomes:

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

1. Describe the importance of financial literacy and list out the institutions providing financial services;
2. Prepare financial plan and budget and manage personal finances;
3. Open, avail, and manage/operate services offered by banks;
4. Open, avail, and manage/operate services offered by post offices;
5. Plan for life insurance and property insurance & select instrument for investment in shares

II SEMESTER

Course Title: Advanced Financial Accounting

Course Outcomes:

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

- a) Understand & compute the amount of claims for loss of stock & loss of Profit.
- b) Learn various methods of accounting for hire purchase transactions.
- c) Deal with the inter-departmental transfers and their accounting treatment.
- d) Demonstrate various accounting treatments for dependent & independent branches.
- e) Prepare financial statements from incomplete records.

Course Title: Business Mathematics

Course Outcomes:

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

- a) Understand the number system and indices applications in solving basic business problems.
- b) Apply concept of commercial arithmetic concepts to solve business problems.
- c) Make use of theory of equation in solving the business problems in the present context.
- d) Understand and apply the concepts of Set Theory, Permutations & Combinations and Matrices solving business problems.
- e) Apply measurement of solids in solving simple business problems.

Course Title: Corporate Administration

Course Outcomes:

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

- a) Understand the framework of Companies Act of 2013 and different kind of companies.
- b) Identify the stages and documents involved in the formation of companies in India.
- c) Analyze the role, responsibilities and functions of Key management Personnel in Corporate Administration.

- d) Examine the procedure involved in the corporate meeting and the role of company secretary in the meeting.
- e) Evaluate the role of liquidator in the process of winding up of the company.

Course Title: Law and Practice of Banking

Course Outcomes:

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

- a) Summarize the relationship between Banker & customer and different types of functions of banker.
- b) Analyse the role, functions and duties of paying and collecting banker.
- c) Make use of the procedure involved in opening and operating different accounts.
- d) Examine the different types of negotiable instrument & their relevance in the present context.
- e) Estimate possible developments in the banking sector in the upcoming days.

Course Title: Financial Environment (Open Elective)

Course Outcomes:

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

- 1. Understand the fundamentals of Indian Economy and its significance.
- 2. Evaluate the impact of monetary policy on the stakeholders of the Economy.
- 3. Assess the impact of fiscal policy on the stakeholders of the Economy.
- 4. Examine the status of inflation, unemployment and labour market in India
- 5. Infer the financial sector reforms in India.

Course Title: Investing in Stock Markets (Open Elective)

Course Outcomes:

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

- 1. Explain the basics of investing in the stock market, the investment environment as well as risk & return.
- 2. Analyze Indian securities market;
- 3. Examine EIC framework and conduct fundamental analysis;
- 4. Perform technical analysis;

5. Invest in mutual funds market.

BACHELOR OF SCIENCE

MATHEMATICS

SEMESTER - I

Course Title: Number Theory-I, Algebra-I and Calculus-I

Course Learning Outcomes:

This course will enable the students to

- Understand the elementary concepts of Number Theory.
- Solve the system of homogeneous and non-homogeneous m linear equations in n variables.
- Sketch curves in Cartesian and polar co-ordinates.
- Identify and apply intermediate value theorem, mean value theorems and L'Hospital rule.

Practicals on Number Theory-II, Algebra-II and Calculus-II

Course Learning Outcomes:

This course will enable the students to

- Learn Free and Open Source Software (FOSS) tools for computer programming.
- Solve problems on Number Theory, Algebra and Calculus by using FOSS softwares.
- Acquire knowledge of applications of algebra and calculus through FOSS.

Practical/Lab Work to be performed in Computer Lab

Open Elective

Business Mathematics-I

Course Learning Outcomes: This course will enable the students to

- Solve the system of homogeneous and non-homogeneous m linear equations in n variables.
- Translate the real world problems through appropriate mathematical modeling.
- Explain the concepts and use equations, formulae and mathematical expressions: variety of context.
- Find the extreme values of functions.
- Analyze and demonstrate the mathematical skill required in mathematically inter areas such as economics, business etc

SEMESTER - II

Number Theory-II, Algebra-II and Calculus-II

Course Learning Outcomes:

This course will enable the students to

- Understand the Euler's ϕ -function and finite continued fractions.
- Recognize the mathematical objects called Groups. • Identify cyclic and non-cyclic groups
- Link the fundamental concepts of groups and symmetries of geometrical objects.
- Understand the concept of partial derivatives of functions of several variables.
- Find the Taylor's and Maclaurin's series of functions of two variables.
- Find the extreme values of functions of two variables.
- Understand the concepts of line integrals, multiple integrals and their applications.

Open Elective

Business Mathematics-II

Course Learning Outcomes:

This course will enable the students

- to Integrate concepts in international business with functioning global trade. Evaluate the legal, social and economic environment of business.
- To learn different techniques of simplification of real number system answer competitive examinations
- To enable student to Will be able to apply knowledge of business concepts and

functions in an integrated manner.

Open Elective Course

Mathematics - I

Course Learning Outcomes:

This course will enable the students to

- Understand the elementary concepts of Number Theory.
- Solve the system of homogeneous and non-homogeneous m linear equations in n variables.

Identify and apply intermediate value theorem, mean value theorems and L'Hospital rule.

CHEMISTRY

Semester 1

Course Title: DSC-1: Analytical and Organic Chemistry-I

Course Outcomes (COs):

1. The concepts of chemical analysis, accuracy, precision and statistical data treatment
2. Prepare the solutions after calculating the required quantity of salts in preparing the reagents/solutions
and dilution of stock solution.
3. The concept of volumetric and gravimetric analysis and deducing the conversion factor for determination
4. Handling of toxic chemicals, concentrated acids and organic solvents and practice safety procedures.
5. The concepts of Organic reactions and techniques of writing the movement of electrons, bond breaking,
bond forming
6. The Concept of aromaticity, resonance, hyper conjugation, etc.
7. Understand the preparation of alkanes, alkenes and alkynes, their reactions, etc.
8. Understand the mechanism of nucleophilic, electrophilic reactions

LANGUAGES

KANNADA

Program / Course Outcomes

1. Enhancing the knowledge about various writer, literary works and literary activities
2. Knowing about the structure and nature of variety of literature
3. Developing humanitarian values along with the richness of language and literature
4. Accumulating the knowledge about Socio Religious, Political and Cultural through the literature
5. Adapting rational – scientific scheme of thought
6. Developing the Language Skills
7. Framing Literary Reading, Knowledge and Writing
8. Enhancing the knowledge about land and culture
9. Knowledge about the current affairs
10. Knowing about the Social Responsibility
11. Formation of strong intellectual personality

HINDI

I BA- First Semester

Expected Out-come : अपेक्षित परिणाम :

1. कहानी के पठन-पाठन में रुचि उत्पन्न होगी ।
2. कहानी के माध्यम से जीवन की वास्तविक और आदर्श की पहचान ।
3. भाषा कौशल का निर्माण।
4. भाषा शुद्धता के प्रति सजगता उत्पन्न होगी।

I BA- Second Semester

Expected Out-come : अपेक्षित परिणाम :

1. उपन्यास के पठन-पाठन में रुचि उत्पन्न होगी ।
2. उपन्यास के माध्यम से जीवन की वास्तविक और आदर्श की पहचान ।
3. भाषा कौशल का निर्माण ।
4. भाषा शुद्धता के प्रति सजगता उत्पन्न होगी।

I BSC- First Semester

Expected Out-come : अपेक्षित परिणाम :

1. छात्रों को हिन्दी साहित्य के प्रति रुची उत्पन्न होगी ।
2. रचनात्मकता में अभिरुचि का निर्माण ।
3. भाषायी सौंदर्य की समझ निर्माण होगी ।
4. कहानी लेखन के प्रति प्रेरित होंगे ।
5. कहानी रचने की क्षमता प्राप्त करेंगे ।

I BSC- Second Semester

Expected Out-come : अपेक्षित परिणाम :

1. छात्रों को हिन्दी साहित्य के प्रति रुची उत्पन्न होगी
2. रचनात्मकता में अभिरुचि का निर्माण
3. भाषायी सौंदर्य की समझ निर्माण होगी
4. कविता लेखन के प्रति प्रेरित होंगे \
5. कविता रचने की क्षमता प्राप्त करेंगे ।

I BCOM- First Semester

Expected Out-come : अपेक्षित परिणाम :

1. हिन्दी भाषा में एकांकी विधाओं का परिचय ।
2. गद्य के पठन-पाठन में रुचि उत्पन्न होगी ।
3. गद्य के माध्यम से जीवन की वास्तविक और आदर्श की पहचान ।
4. गद्य के माध्यम से भाषा कौशल का निर्माण और भाषा शुद्धता के प्रति सजगता उत्पन्न होगी ।

I BCOM- Second Semester

Expected Out-come : अपेक्षित परिणाम :

1. हिन्दी भाषा के मध्यकालीन और आधुनिक हिन्दी कविता का परिचय।
2. काव्य पठन-पाठन में रुचि उत्पन्न होगी ।

3. मध्यकालीन और आधुनिक काव्य के अंतर की पहचान प्राप्त होगी ।
4. कविता के अध्ययन के द्वारा काव्य सृजन के लिए प्रेरणा मिलेगी ।
5. आधुनिक हिन्दी काव्य के संबंध सोचने की क्षमता मिलेगी ।

I BCA- First Semester

Expected Out-come : अपेक्षित परिणाम :

1. गद्य के तत्वों के आधार पर निबन्ध रचने की क्षमता प्राप्त होगी ।
2. छात्रों में पढ़ने की आदत का विकास होगा ।
3. वाचनकौशल तथा लेखन कौशल में बढोत्तरी ।

I BCA- Second Semester

Expected Out-come : अपेक्षित परिणाम :

1. गद्य के तत्व के आधार पर कहानी रचने की क्षमता ।
2. वाचन कौशल तथा लेखन कौशल बढेगा ।
3. हिन्दी कथा के बारे में जानकारी प्राप्त होगी ।
4. प्रयोजन मूलक हिन्दी के अन्तर्गत राष्ट्रभाषा, राजभाषा और सम्पर्क भाषा की जानकारी प्राप्त होगी ।

GENERIC ENGLISH (BA/BCOM/BSC/BCA)

Course Outcomes:

By the end of the programme the students will

1. Acquire the LSRW (Listening, Speaking, Reading, Writing skills
2. Learn to appreciate literature
3. Obtain the knowledge of literary devices and genres
4. Acquire creativity and the skills of expression

5. Know how to use digital learning tools 6
- . Be aware of social responsibilities
7. Develop the ability to read and write critically
8. Increase the reading speed
9. Enhance the analytical skills.
