III SEMESTER M.Com. (MASTER OF COMMERCE)

Common papers

3.1 INTELLECTUAL PROPERTY RIGHTS

Course Outcomes: On successful completion of the course, the students will understand fundamental aspects of Intellectual Property Rights to students who are going to play a major role in development and management of innovative projects in industries and an ample scope of knowledge on copyrights and its related rights and registration aspects

3.2 TRADE LOGISTICS & SUPPLY CHAIN MANAGEMENT

Course Outcomes: On successful completion of the course, the Students will be able to understand the concepts of Logistics and also to understand the importance Supply Chain Management in different kinds of Industries.

Finance and Banking specialization

3.3 (Finance) FINANCIAL MARKETS & SERVICES

Course Outcomes: This course is designed to provide the students with a conceptual understanding of how financial markets-work, how they are structured, and provide insight into the functioning of various components of financial market and distinctive financial services offered by financial institutions.

3.4 (Finance) FINANCIAL PLANNING & INVESTMENT ENVIRONMENT

Course Outcomes: The Course in Financial Planning intent to enable critical thinking in students with respect to analysis and application of innovative solutions to varied financial problems and make plan as per their financial situation.

3.5 (Finance) INNOVATIONS IN BANKING & TECHNOLOGY

Course Outcomes: The students can understand the crux of core banking solutions and applications of cognitive banking and technology on Banking Operations.

Accounting and Taxation specialization

3.3 (Accounts) BUSINESS REPORTING AND PRACTICES

Course Outcomes: On successful completion of the course, the Students will be able to understand the reporting aspects of different elements, standards of Financial Statements.

3.4 (Accounts) STRATEGIC COST MANAGEMENT – I

Course Outcomes: On successful completion of the course, the Students will be able to understand the internal environment of business and to enable them to formulate strategies relating to cost

3.5 (Accounts) CORPORATE TAX PLANNING

Course Outcomes: On successful completion of the course, the Students will be able to acquire the knowledge of applying tax provisions to a corporate assessee in various tax planning decisions of a company and to study and analyse the company's tax savings decisions

4.1 ANALYTICS IN COMMERCE & BUSINESS

Course Outcomes: On successful completion of the course, the student can understand the importance of analytics in business and application of various tools and techniques to evaluate the performance by generating reports.

4.2 FORENSIC ACCOUNTING & AUDITING

Course Outcomes: On successful completion of the course, the Students will be to identify, analyse and interpret indicators of financially fraudulent activity and to explain investigative processes and the nature and range of investigative techniques, and identify situations for their application

Finance and Banking specialization

4.3 (Finance) FOREX MANAGEMENT

Course Outcomes: The purpose of this course is to give the students an exposure to the way foreign Exchange Market operates, to understand the principles of Currency valuation, techniques that can be used to hedge foreign exchange risk and to create an understanding on foreign exchange Management in India.

4.4 (Finance) SECURITY ANALYSIS & PORTFOLIO MANAGEMENT

Course Outcomes: On successful completion of the course, the students will get to know the terms such as common stock, stock market, stock options, and approaches to investing in the stock market and building stock portfolios. It also provides a basic introduction to portfolio theory and study on various portfolio modelling associated with risks.

4.5 (Finance) STRATEGIC FINANCIAL MANAGEMENT

Course Outcomes: On successful completion of the course, students will get familiarised with Techniques and Models of Strategic Financial Management.

Accounting and Taxation specialization

4.3 (Accounts) INTERNATIONAL ACCOUNTING

Course Outcomes: On successful completion of the course, the Students will be able to understand the wide range of choices of accounting treatments in different parts of the world, their approaches to basic accounting issues and their choices of accounting rules

4.4 (Accounts) STRATEGIC COST MANAGEMENT – II

Course Outcomes: On successful completion of the course, the Students will be able to understand the external environment of business and to enable them to formulate strategies relating to cost and pricing

4.5 (Accounts) GOODS AND SERVICES TAX

Course Outcomes: On successful completion of the course, students will be able to understand the GST law in the country and provide an insight into practical aspects of GST and equip them to become tax practitioners.

Department of Commerce

Course Outcome

II Year B Com 2022-23

III SEMESTER

Sl. No.	Title of the Course	Course Outcome
1.	CORPORATE ACCOUNTING	a. Understand the procedure involved in issue of shares. b. Understand the treatment of underwriting of corporate Securities. c. Know the valuation of Goodwill. d. Know the valuation of Shares. e. Prepare the financial statements of companies as per the Companies Act 2013
2.	Business Statistics	a. Understand statistical data and descriptive statistics for business data Analysis. b. Comprehend the measures of Central Tendency, Dispersion and Skewness. c. Validate the application of Correlation Analysis in business decisions. d. Apply the Regression Analysis Technique for business decisions.
3.	Cost Accounting	a. Demonstrate an understanding of the concepts of costing and cost accounting. b. Classify, allocate apportion overheads and calculate overhead absorption rates. c. Demonstrate the ability to calculate labour cost d. Demonstrate the ability to prepare a cost sheet. e. Prepare material related documents, understand the management of stores and issue procedures.

		IV Semester	
4.	Advanced Corporate Accounting	a. Know the procedure of redemption of Preference Shares. b. Comprehend the different methods of Amalgamation and Acquisition of Companies c. Understand the process of Internal reconstruction. d. Prepare the liquidators Final statement of accounts. e. Understand the process of Liquidation of Companies in India	
5.	COSTING METHODS AND TECHNIQUES	a. Understand the various methods of costing applicable to different industries. b. Determine the cost under different methods of costing. c. Analyze the processes involved in standard costing and variance analysis. d. Apply the knowledge gained for decision making	
6.	BUSINESS REGULATORY FRAMEWORK	a. Comprehend the laws relating to Contracts and its application in business activities. b. Comprehend the rules for Sale of Goods and rights and duties of a buyer and a seller. c. Understand the importance of Competition Act. d. Understand the significance of Consumer Protection Act and its features e. Understand the need for Environment Protection.	

Economics

Semester III

Course Title: Microeconomics

Course Code: ECO 3 DSC05
No. of Credits 3
Contact hours 42 Hours

Duration of SEA/Exam 2 hours

Formative Assessment Marks 40 Summative Assessment Marks 60

Course Outcomes (COs): After successfully completing the course, the student will be able to:

CO1. Understand introductory economic concepts.

CO2. Recognize basic supply and demand analysis.

CO3. Recognize the structure and the role of costs in the economy.

CO4. Describe, using graphs, the various market models: perfect competition, monopoly, monopolistic competition, and oligopoly.

CO5. Explain how equilibrium is achieved in the various market models. CO6. Identify problem areas in the economy, and possible solutions, using the analytical tools developed in the course.

Semester III

Course Title: Agriculture Economics

Course Code: ECO3DSC06
No. of Credits 3
Contact hours 42 Hours

Duration of SEA/Exam 2 Hours

Formative Assessment Marks 40 Summative Assessment Marks 60

Course Outcomes (COs): After completing the course, the student will be able to:

CO1. Acquire knowledge of the role of agriculture in economic development

CO2. Acquire the theoretical and application knowledge of agricultural growth and development

CO3. To enable the students to understand the Strategy of Agricultural Development in India

CO4. To make the students aware of institutional and non-institutional sources of agricultural Finance

Semester III

Course Title Rural Economics

Course Code: ECO3 OE-3
No. of Credits 3

Contact hours 42 Hours

Duration of SEA/Exam 2 Hours

Formative Assessment Marks 40 Summative Assessment Marks 60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:
CO1. To understand the basics of rural development,

CO2. To study the characteristics, problems, and programmes of rural redevelopment

CO3. To study the trends and patterns of economic activities in rural areas

CO4. To study the role of infrastructural facilities and governance in rural development CO5. To enable the students to know about the significance of rural enterprises and agricultural allied activities.

Semester IV

Course Title Macroeconomics

Course Code: ECO4DSC07
No. of Credits 3

Contact hours 42 Hours

Duration of SEA/Exam 2 Hours

Formative Assessment Marks 40 Summative Assessment Marks 60 Course Outcomes

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

CO1: Acquire knowledge on the circular flow of income in two sectors, three and four-sector model

CO2: Understand and learn the calculation of national income

CO 3: Appreciate the classical and Keynesian theory of Employment

CO 4: Understand the concepts of multiplier and accelerator and leaning the simple Calculation on the working of Multiplier and Accelerator

CO 5: Acquire knowledge of the determinants of the Investment function

Semester IV Course

Title Monetary Economics

Course Code: ECO4 DSC-08
No. of Credits 3

Contact hours 42 Hours

Duration of SEA/Exam 2 Hours

Formative Assessment Marks 40 Summative Assessment Marks 60

Course Outcomes (COs): After the successful completion of the course, the student will be able to:

CO1: Acquire knowledge of the supply and demand of Money

CO2: Understand and interest in determination theories.

CO 3: Appreciate the Implications for Monetary Management

CO 4: Understand the relationship between inflation and unemployment

CO 5: Acquire knowledge of the working of business cycle

DISCIPLINESPECIFICCORECOURSE (DSCC)
B.A. (BASIC/HONS.) ENGLISH LITERATURE
III SEMESTER ✗ IV

Starting year of implementation: 2022-23

Discipline/Subject: Discipline Specific Core Course (DSCC)

Name of the Degree Program: B.A.(HONS.)English Literature

Total Credits for the Program: 03

Teaching hours per week: 03

Program Objectives:

Provide a comprehensive foundation in literary studies and linguistic competencies:

1. Introduce multiple areas of writings in English language and translations in English.

2. Connect liberal arts Humanities and Social Sciences through a multi dimensional curriculum.

3. Develop the students 'ability to read, process, think critically and independently.

4. Explore texts and contexts of writings and readings, from varied two spaces.

5. Establish a multi disciplinary approach towards higher studies and research.

6. Develop in students an inclusive outlook and responsible citizenship, inculcate ethical thinking and a sense of social commitment.

7. Provide training to students in multiple areas of employment—conventional and new.

8. Train students in professional skills relevant to career opportunities.

9. Prepare students for the technologically advance world, its challenges and opportunities.

10. To enable practical and experiential learning.

Course Objectives:

1. To enhance LSRW (Listening, Speaking, Reading, Writing) skills

2. To develop interpersonal communicative skills

3. To augment presentation skills

4. To critically analyze, interpret and appreciate literary texts

5. To sensitize about social, cultural, religious and ethnic diversities

6. To enable employability in emerging sectors such as – content writers, interpreters, transl transcribers

7. To facilitate preparation for competitive examinations-
UPSC/KPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.

Course Outcomes:

At the end of the course the students will have

1. Acquired enhanced LSRW (Listening, Speaking, Reading, Writing) skills

2. Equipped themselves with interpersonal communication skills

3. Augmented presentation and analytical skills.

4. Ability to critically analyze, interpret and appreciate literary texts

5. An awareness of social, cultural, religious and ethnic diversities

6. Facilitated employability in emerging sectors such as – content writers, interpreters, translators, transcribers

7. Acquired language skills for competitive examinations -
UPSC/KPSC/IBPS/SSC/RAILWAYS/TOEFL/IELTS and others.

TitleoftheCourse:ADDITIONALENGLISH		
NumberofTheoryCredits	Numberofhours perweek	Numberoflecture hours/semester
03	04	50/56

Ability Enhancement Compulsory Course Language (AECC)

Generic English

Course Objectives for III Semester & IV Semester

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

Course Outcomes for III Semester & IV Semester

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

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

BMS College for Women Autonomous

Department of History

Course outcomes (Cos)

Semester III
Course Title: Political History of India (From Indus Culture up to 1206 CE)
Course code :- HIS3DSC05
Course outcomes (Cos)

- Understand the history and culture of Political History of India region. Analyze the importance of causes for backwardness of this region.
- Understand the influence of political influence on the people and culture of this region.
- Understand the political, Social, Religious and Cultural history of the region. Appreciate the divergent cultural and communal harmony of this region.

Course Title : Bangalore in Time and Space.

Course code :- HIS3DSC06

Course Outcomes (Cos):
- Understand the history and culture of Bangalore in Time and Space.
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

Course Title: - Freedom Movement in Karnataka (1800-1947)

Course code :- HIS3OE03

Understand the Freedom Movement in Karnataka (1800-1947)

- Understand the influence of Freedom Movement in Karnataka (1800-1947)
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region

Semester 4

Course Title: - History of Medieval India
Course code :- HIS4DSC07:
- Understand the Political History Medieval India (from 1206 to 1761). Analyze the importance of cause's backwardness of this region.
- Understand the influence of Political History Medieval India (from 1206 to 1761).
- Understand the political, Social, Religious and Cultural history of the region. Appreciate the divergent cultural and communal harmony of this region.

Course Title:- Cultural History of India up to 1206 CE
Course code :- HIS4DSC08:

Course Outcomes (Cos):

- Understand the History of Cultural History of India (From Indus Culture to 1206 CE). Analyze the importance of causes for backwardness of this region.
- Understand the influence of cultural aspects on the History of India.
- Understand the political, Social, Religious and Cultural history of the region.
- Appreciate the divergent cultural and communal harmony of this region.

Ability Enhancement Compulsory Courses (AECC)

Course Title: INDIA AND INDIAN CONSTITUTION

Course outcomes

Upon completion of this course students will be able to:-

- Explain the philosophy and the structure of the Constitution.
- Measure the powers, functions and limitations of various offices under the Constitution.
- Demonstrate the values, ideals and the role of Constitution in a democratic India.

ಬಿ.ಎಂ.ಎಸ್ ಮಹಿಳಾ ಮಹಾವಿದ್ಯಾಲಯ (ಸ್ವಾಯತ್ತ)

ಬಸವನಗುಡಿ, ಬೆಂಗಳೂರು – 560004

Course Outcomes
Program outcomes
Department of Kannada
3rd and 4th sem 2022-23

Course Outcomes (COs)/ program outcomes (Pos)	1 ಬಿ.ಎ	2 ಬಿ.ಎಸ್ಸಿ	3 ಬಿ.ಕಾಂ	4 ಬಿ.ಬಿ.ಎ/ ಬಿ ವೋಕ್ ಆರ್.ಎಂ	5 ಬಿ.ಸಿ.ಎ/ ಬಿ. ವೋಕ್. ಐ.ಟಿ	6 ಐಚ್ಛಿಕ ಕನ್ನಡ	7 ಕನ್ನಡೇತರ ರಿಗೆ ಕನ್ನಡ	8 ಮುಕ್ತ ಆಯ್ಕೆ ಕನ್ನಡ
1. ವಿವಿಧ ಬರಹಗಾರರು, ಸಾಹಿತ್ಯ ಕೃತಿಗಳು ಮತ್ತು ಸಾಹಿತ್ಯ ಚಳುವಳಿಗಳ ಅರಿವು ಹೆಚ್ಚಿಸಿಕೊಳ್ಳುವುದು.		/	/		/		/	
2. ವಿವಿಧ ಸಾಹಿತ್ಯ ಪ್ರಕಾರಗಳ ರೂಪ–ಸ್ವರೂಪಗಳ ಬಗೆಗೆ ತಿಳುವಳಿಕೆ ಪಡೆಯುವುದು.		/		/			/	
3. ಭಾಷೆ–ಸಾಹಿತ್ಯದ ಶ್ರೀಮಂತಿಕೆಯ ಜೊತೆಗೆ ಮಾನವೀಯ ಮೌಲ್ಯಗಳನ್ನು ಮೂಡಿಸಿಕೊಳ್ಳುವುದು.	/	/	/		/	/		
4. ಸಾಹಿತ್ಯಮೂಲಕ ಸಮಾಜೋ, ಧಾರ್ಮಿಕ, ರಾಜಕೀಯ, ಸಾಂಸ್ಕೃತಿಕ ತಿಳುವಳಿಕೆಯನ್ನು ಹೊಂದುವುದು.	/	/	/	/		/		
5. ವೈಚಾರಿಕ–ವೈಜ್ಞಾನಿಕ ಚಿಂತನೆಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವುದು.	/	/	/	/		/		
6. ಭಾಷಾ ಕೌಶಲ್ಯವನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವುದು.	/		/		/	/	/	
7. ಸಾಹಿತ್ಯದ ಓದು ತಿಳುವಳಿಕೆ ಹಾಗೂ ಬರವಣಿಗೆಯನ್ನು ರೂಢಿಸಿಕೊಳ್ಳುವುದು.	/	/		/		/	/	
8. ನಾಡು–ನುಡಿಯನ್ನು ಕುರಿತ ಅರಿವನ್ನು ಹೆಚ್ಚಿಸಿಕೊಳ್ಳುವುದು.	/	/	/			/		/
9. ಸಮಕಾಲೀನ ವಿದ್ಯಮಾನಗಳ ಅರಿವು.	/	/	/	/		/	/	
10. ಸಾಮಾಜಿಕ ಹೊಣೆಗಾರಿಕೆಯ ಅರಿವು	/	/		/		/		/
11. ಸದೃಢ ಬೌದ್ಧಿಕ ವ್ಯಕ್ತಿತ್ವ ನಿರ್ಮಾಣ	/		/	/	/		/	

MM301T : LINEAR ALGEBRA

1. To understand the concepts of Linear transformation and matrix representation of a linear transformation, Diagonlizabillity, Invariant spaces.
2. To understand the concepts of Canonical forms and Bilinear forms.

MM302T:FUNCTIONAL ANALYSIS

1. To understand concept such as normed linear spaces, inner product spaces, Banach and Hilbert Space and understand the geometry of inner products and norms.
2. understand the concept of conjugate space of a Hilbert space. Projections on a Hilbert space. Orthogonality of projections, Eigen values and eigen space of an operator on a Hilbert Space. Spectrum of an operator on a finite dimensional Hilbert Space. Finite dimensional spectral theorem

MM303T: DIFFERENTIAL GEOMETRY
1. Studying more concept on curvature of a curve and conditions for the planarity of a curve and characterize all the isometries of the usual Euclidean three dimensional space.
2. Learning various differential geometry techniques that can be applied to study the concept of congruence of curves and analyze the shape of a given surface using the concepts of various kinds of curvatures on a surface and the concept of shape operators**.**

MM304T: FLUID MECHANICS
1. To understand the concepts of Coordinate transformations. Strain tensors, Normal and shear stresses. Fundamental basic physical laws. Dimensional analysis.
2. To understand the concepts of Motion of Viscous fluids: Stress tensor - Navier-Stokes equation and two dimensional flows of in viscid fluids.

MM305T: NUMERICAL ANALYSIS-II

1. Knowing the methods to find the numerical solution of ordinary differential equations.
2. Knowing the methods to find the numerical solution of partial differential equations. Difference methods for one-dimension- explicit and implicit schemes. Stability and convergence analyses.

MM306P: SCILAB PRACTICAL'S BASED ON PAPER MM305T

1. Acquiring proficiency in using SCILAB to find the solution of ordinary differential equations.
2. To demonstrate the use of Scilab to understand the solution of partial differential equations.

BMS College for Women Autonomous
Post Graduate Department of Mathematics
<u>**Fourth Semester**</u>
Course Outcome

MM401T: MEASURE AND INTEGRATION

1. Getting the knowledge about Lebesgue outer measure, Relation between the outer measure. Measurable functions.
2. Learning about Lebesgue Integral and differentiation of monotone functions.

MM402T: MATHEMATICAL METHODS
1. Getting the knowledge about Integral Transforms, Integral equations.

2.   To understand the concepts of Asymptotic expansions and Perturbation methods.

MM403T(A): RIEMANNIAN GEOMETRY

1. To understand the concepts of Differentiable manifolds, Differentiable structures. Smooth maps and diffeomorphism.
2. To understand the concepts of Riemannian Metric, Riemannian connections and their components and curves and geodesics in Riemannian manifold.

MM403T(B): SPECIAL FUNCTIONS
1. Learning about the knowledge of Hyper geometric series. Basic hypergeometric series.
2. Getting knowledge on q-series and Theta functions, a theorem of Jacobi Theorems. Euler – Rogers Ramanujan Identities.

MM403T(C): ENTIRE AND MEROMORPHIC FUNCTIONS

1. To understand Concepts of Entire functions, Asymptotic values and Asymptotic curves.
2. To understand concepts of Meromorphic function and Deficient Values and Relation between various Exceptional Values and Alfven wave equations in incompressible fluids.

MM403T(D): MAGNETOHYDRODYNAMICS

1. To Understand the concepts of electrodynamics and Basic equations , non dimensional numbers.

2. To understand the concepts of Magnetostatics: Force free magnetic field and important results theorem.

MM403T(E): COMPUTATIONAL FLUID DYNAMICS

1. To understand the concepts of Finite Difference Methods and Artificial compressibility method, pressure correction method.
2. To understand the concepts of Structured and Unstructured FVMs, Second and Fourth order approximations to the convection and diffusion equations.

MM403T(H): DESIGN AND ANALYSIS OF ALGORITHM

1. To understand the concepts of algorithms searching ,sorting and selection.

2. To understand the concepts of Greedy Algorithms and dynamic progrmming alogrithms for optimal polygon triangulation.

MM403T(G): GRAPH THEORY

1. To understand the concepts of connectivity on graph theory and colorability on graph.

2. To understand the concepts of Matching and factorization and Domination concepts and other variants in graph.

MM404P: R PROGRAMMING LAB

1. To understand the R Programming Environment, utilize R Data type for developing programs.
2. Make use of different R Data structures etc.

MATDSCT5.2: Vector Calculus and Analytical Geometry

Course Learning Outcomes: This course will enable the students to

1. Get introduced to the fundamentals of vector differential and integral calculus.
2. Get familiar with the various differential operators and their properties.
3. Get acquainted with the various techniques of vector integration.
4. Learn the applications of vector calculus.
5. Recollect the fundamentals of Analytical Geometry in 3D.
6. Interpret the geometrical aspects of planes and lines in 3D.

SEMESTER – VI

MATDSCT 6.1: Linear Algebra and Calculus of Variations

Course Learning Outcomes:

The overall expectation from this course is that the student will build a basic understanding in few areas of linear algebra such as vector spaces, linear transformations and eigenvalue analysis. Some broader course outcomes are listed as follows. At the end of this course, the student will be able to

1. Identify and analyse the algebraic structures such as ring, field, and integral domain.
2. Understand the concepts of vector spaces, subspaces, bases dimension and their properties.
3. Understand the concept of linear transformation and eigenvalue analysis.
4. Understand the concept of functionals and applications.
5. Apply the knowledge gained to various situations inside and outside mathematics.

MATDSCT 6.2: Numerical Analysis

Course Learning Outcomes:

The overall expectation from this course is that the student will get equipped with certain numerical techniques for various computations such as finding roots, system of algebraic equation, finding the integrals and derivatives. Some broader course outcomes are listed as follows. At the end of this course, the student will be able to

1. Describe various operators arising in numerical analysis such as difference operators, shift operators and so on.
2. Articulate the rationale behind various techniques of numerical analysis such as in finding roots, integrals and derivatives.
3. Reproduce the existing algorithms for various tasks as mentioned previously in numerical analysis.
4. Apply the rules of calculus and other areas of mathematics in justifying the techniques of numerical analysis.
5. Solve problems using suitable numerical technique
6. Appreciate the profound applicability of techniques of numerical analysis in solving real life problems and also appreciate the way the techniques are modified to improve the accuracy.

Open Elective 1

MAT1OET0A: Corporate Mathematics

Course Learning Outcomes: This course will enable the students to

- Learn types of equations and methods to solve linear, quadratic equations.
- Learn how to represent data through graphs and analyze.
- Learn frequency distribution , mean, median and mode.
- Learn GM,HM,AM concepts
- Learn formation and solution of LPP through graphical methods.

Open Elective 2

MAT1OET0B: Mathematics - I

Course Learning Outcomes: This course will enable the students to

- Learn row and column operations, rank ofmatrix
- Learn to solve system of linear equations.
- Solve the system of homogeneous and non-homogeneous m linear equations by ,finding eigenvalues and eigenvectors.
- Students will be familiar with the techniques of differentiation of function with real variables.
- Identify and apply the intermediate value theorems and L'Hospital's rule.
- Learn to evaluate integrals , find arc -lengths , areas and volume.

Open elective 3

MAT1OET0C:CommercialMathematics

Course Learning Outcomes: This course will enable the students to

- Learn concepts of set ,types of sets and Venn diagrams.
- Learn concepts of Relations and functions
- Learn concept of permutation and combination with application problems.
- Learn concept of probability, definitions of events , occurrences of events.
- Learn some rules of probability and application problems
- Learn to calculate percentage and ratios in application problems.
- learn definitions of proportions and properties.
- apply these concepts in commercial problems.

Open Elective 4

MAT1OET0D: Mathematics–II

Course Learning Outcomes: This course will enable the students to

- learn how to find the roots of equations.

- ⬚ relation between roots and coefficients.
- ⬚ Learn Descartes' rule of signs to find roots.
- ⬚ Understand the concept of partial differentiation, Jacobians and Taylors and McLaurin's expansion.
- ⬚ Find the extreme values of functions of two variables.
- ⬚ To understand the concepts of multiple integrals and their applications.

- **OPEN ELECTIVE COURSE**

MAT3OE03A : Ordinary Differential Equations

-
- **Course Learning Outcomes:** This course will enable the students:

1. To understand the concept of differential equation and their classification.
2. To know the meaning of the solution of a differential equation.
3. To solve exact differential equations
4. To Solve Bernoulli differential equations.
5. To find the solution to higher-order linear differential equations.

OPEN ELECTIVE COURSE

MAT3OE03B: Quantitative Mathematics

Course Outcomes: This course will enable the students to:

- Understand number system and fundamental operations
- Understand the concept of linear, quadratic and simultaneous equations & their applicationsin real life problems
- Understand and solve the problems based on age.
  - Solve speed and distance related problems.

OPEN ELECTIVE COURSE

MAT4OE04E: Mathematical Finance

Course Learning Outcomes: This course will enable the students to:

- Understand how compute profit and loss, discount and Banker's discount.
- Understand the concept of linear equations and inequalities and their use inthe solving the linear programming problems.
- Formulation of transportation problem and its application in routing problem.

Course Learning Outcomes: This course will enable the students to:

- Solve first-order non-linear differential equations and linear differential equations.
- To model problems in nature using Ordinary Differential Equations.
- Formulate differential equations for various mathematical models
- Apply these techniques to solve and analyze various mathematical models.
- Understand the fundamental properties of the real numbers that lead to define sequence andseries, the formal development of real analysis.
- Learn the concept of Convergence and Divergence of a sequence.
- Able to handle and understand limits and their use in sequences, series, differentiation, andintegration.
- Apply the ratio, root, alternating series, and limit comparison tests for convergence and absoluteconvergence of an infinite series.

SEMESTER – IV

MAT4DSCT04   Partial Differential Equations and Integral Transforms

Course Learning Outcomes: This course will enable the students to:

- Formulate, classify and transform partial differential equations into canonical form.
- Solve the partial differential equations of the first order and second order
- Solve linear and non-linear partial differential equations using various methods; and apply thesemethods to solving some physical problems.
- Able to take more courses on wave equation, heat equation and Laplace equation.
- Solve PDE by Laplace transforms.

SEMESTER – V

MATDSCT 5.1: Real Analysis-II and Complex Analysis

Course Learning Outcomes:

The overall expectation from this course is that the student builds a basic understanding on improper integrals and complex analysis. The broader course outcomes are listed as follows. At the end of this course, the student will be able to:

1. Carry out certain computations such as improper integrals involving Beta and Gamma functions.
2. Exhibit certain properties of mathematical objects such as integrable functions, analytic functions, harmonic functions and so on.
3. Prove some statements related to complex integral as well as in complex analysis
4. Carry out the existing algorithms to construct mathematical structures such as analytic functions.
5. Evaluate the utility of complex analysis in solving real world problems.

B.M.S COLLEGE FOR WOMEN
Autonomous
DEPARTMENT OF MICROBIOLOGY

II B.Sc., Microbiology (2022-23)

COURSE OUTCOME:

By studying Microbiology in UG level students should be able to:

III Semester:

1. Knowledge about microbes and their diversity.
2. Study, Characters, classification and economic importance of Pro-eukaryotic and Eukaryotic microbes.
3. Knowledge about viruses and their diversity.

IV Semester:

1. Differentiating concepts of chemoheterotrophic metabolism and chemolithotrophic metabolism.
2. Describing the enzyme kinetics, enzyme activity and regulation.
3. Differentiating concepts of aerobic and anaerobic respiration and how these are manifested in the form of different metabolic pathways in microorganisms.

B.M.S COLLEGE FOR WOMEN
Autonomous
DEPARTMENT OF MICROBIOLOGY

III B.Sc., Microbiology (2023)

COURSE OUTCOME: III B.Sc., Microbiology

By studying Microbiology in UG level students should be able to:

V Semester:
1. Understand concepts involved in replication, transcription, translation, regulation of geneexpression in Prokaryotes and Eukaryotes.
2. Differentiate the process of replication, transcription, translation, regulation of gene expression inProkaryotes and Eukaryotes.
3. Understand the genetic switch in Viruses (bacteriophages).
4. Compare and contrast housekeeping, constitutive, inducible and repressible genes
5. Outline regulatory mechanisms in Bacteria to control cellular processes
6. To understand the preservation and food safety protocols
7. To understand the methods of spoilage of food and the diseases associated with it
8. To learn the properties of milk and the types of preservation of milk.
9. To learn the types of fermented food and dairy products and its significance

VI Semester:

1. To gain a preliminary understanding about various immune mechanisms.
2. To familiarize with Immunological techniques and serodiagnosis of infectious diseases
3. To understand pathogenic bacterial infections, symptoms, diagnosis and treatment process.
4. To understand pathogenic bacterial infections, symptoms, diagnosis and to understand pathogenic bacterial infections, symptoms, diagnosis and treatment process treatment process.
5. To acquire knowledge on the concepts and terminology in genetic engineering
6. To learn about principles involved in manipulating genes and DNA
7. Familiar with various cloning strategies in prokaryotes

8. Learn techniques in genetic engineering
9. To have awareness of IPR, the social and the ethical issues concerning cloning by genetic engineering

Department of Physics

Program Outcomes:

1.	Disciplinary knowledge
2.	Communication Skills
3.	Critical thinking, Reflective thinking, Analytical reasoning, Scientific reasoning
4.	Problem-solving
5.	Research-related skills
6.	Cooperation/ Teamwork/ Leadership readiness/Qualities
7.	Information/ Digital literacy/Modern Tool Usage
8.	Environment and Sustainability
10.	Multi-Disciplinary
11.	Moral and ethical awareness/Reasoning
12.	Lifelong learning / Self Directed Learning

Course Outcomes

i.	Identify different types of waves by looking into their characteristics.
iii.	Explain and give a mathematical treatment of the superposition of waves under different conditions, such as, when they overlap linearly and perpendicularly with equal or different frequencies and equal or different phases.
iv.	Describe the formation of standing waves and how the energy is transferred along the standing wave in different applications, and mathematically model in the case of stretched string and vibration of a rod.
v.	Give an analytical treatment of resonance in the case of open and closed pipes in general and Helmholtz resonators in particular.
vi.	Describe the different parameters that affect the acoustics in a building, measure it and control it.
vii.	Give the different models of light propagation and phenomenon associated and measure the parameters like the wavelength of light using experiments like Michelson interferometer, interference and thin films.
i.	Apply the laws of thermodynamics and analyze the thermal system.
ii.	Apply the laws of kinetic theory and radiation laws to the ideal and practical thermodynamics systems through derived thermodynamic relations.
iii.	Use the concepts of semiconductors to describe different Semiconductor devices such as diode transistors, BJT, FET etc and explain their functioning.
iv.	Explain the functioning of OP-AMPS and use them as the building blocks of logic gates.
v.	Give the use of logic gates using different theorems of Boolean Algebra followed by logic circuits.

II BA - III Semester Syllabus

DSC-3

Course Title – Child Development

Course Code – PSY3DSC03

Total Contact Hours: 56	Course Credits: 4
Formative Assessment Marks:40	Summative Assessment Marks: 60 Marks

Duration of ESA: 2 ½ hrs

COURSE OBJECTIVES

a) To understand the theoretical concepts Child development.
b) To understand the aspects of Child development.
c) To analyze and relate the concept of physical, cognitive, language, emotional and social development in childhood.
d) To understand disorders of childhood.

COURSE OUTCOME

a) Evaluate and understand the different theories of child development.
b) Critically evaluate the aspects of Child development.
c) Compare the aspects of development at different stages of childhood.
d) Differentiate normality and abnormality among growing children.

UNIT I - INTRODUCTION TO CHILD DEVELOPMENT   (10 hours)

a) **Historical views of childhood** – Medieval times, the Reformation, Philosophies of Enlightenment, Darwin scientific child study.
b) **Theories of child development** – Cognitive theories, Behavioral and social cognitive theories; Ecological model – Bronfenbrenner. Ethological model / perspective.
c) **Methods and Designs** – Longitudinal, Cross – sectional, Sequential, Correlation. Modern methods of Child Development.
d) **Careers in Child development.**
e) **Ethics & Research Challenges in Child development.**

Unit II – PRE-NATAL DEVELOPMENT   (10 hours)

a) **Conception** - Stages in prenatal development - Germinal stage, Embryonic stage and Fetal stage.
b) **Prenatal Environmental Influences** - Teratogens, Prescription and Nonprescription Drugs-illegal drugs, Tobacco, Alcohol, Radiation, Environmental Pollution, Maternal Disease and other Maternal Factors.
c) **Child birth** – Stages of child birth
d) **New Born Assessment** – APGAR scale, Brazelton Neonatal Behavioural Assessment Scale.

DSC-4

Course Title – Developmental Psychology	
Course Code – PSY4DSC04	
Total Contact Hours: 56	**Course Credits: 4**
Formative Assessment Marks:40	**Summative Assessment Marks: 60 Marks**
Duration of ESA: 2 ½ hrs	

COURSE OBJECTIVES

- To understand and analyze the Physical, Cognitive and Psychosocial development.
- To understand the vocational pattern at different stages of development.
- To understand the aging, the ageing process and facing the future.

COURSE OUTCOME

- Evaluate and understand the different aspects of development.
- Critically evaluate the changes observed in different aspects of development.
- Compare the occupational adjustment at different stages of life.
- Compare the ageing process and facing the future with theoretical orientation.

UNIT I: PUBERTY & ADOLESCENCE
(12 hour

a) Puberty: Meaning and Characteristics.
b) Adolescence: Physical Development – Adolescents' growth spurt, primary and secondary sexual characteristics, signs of sexual maturity.
c) Physical and Mental Health – Physical Fitness, Sleep Needs, Nutrition and Eating disorders; Substance abuse – risk factors of drug abuse, gate way drugs – alcohol – marijuana and tobacco. Internet addiction disorder, Problematic internet use - Addiction to Social media and Virtual Gaming.
d) Psychosocial Development: Search for Identity- Theories of Erikson and Marcia. Gender Differences and Ethnic Factors in Identity Formation. Relationship with family, peers and adult society (in brief). Adolescents in Trouble: Antisocial and Juvenile Delinquency (in brief)

UNIT II: EARLY ADULTHOOD
(12 hou

a) Characteristics of early adulthood.
b) Health and Physical Development: Health status, Genetic and Behavioral Influences on Health and Fitness.
c) Cognitive development –Piaget's shift to post formal thought. Schaies' model. Emotional Intelligence.
d) Psycho-social development: Models - Normative, Timing-of-events, Trait and Typological. Intimate Relationships. Marital and non-marital life styles - Single life, Marriage, co

OF-3

Course Title – Psychology and Mental Health	
	Course Code – PSY3OE03
	Course Credits: 3
Total Contact Hours :30	
	Summative Assessment Marks: 60 Marks
Formative Assessment Marks:40	
	Duration of ESA: 2 ½ hrs

COURSE OBJECTIVES

- To understand the fundamentals of mental health.
- To create awareness about importance of mental health.
- To understand the Challenges in the field of mental health.
- To understand the Importance of Psychological interventions.

COURSE OUTCOME

- Evaluate and understand the basics of mental health.
- Can understand the need of having sound mental health.
- Can curb the social stigma attached to mental health.
- Evaluate and understand the various coping techniques.

Unit 1: Introduction   (7 hour

a) Meaning and definition of Mental Health, Fundamentals of Mental Health.
b) Factors affecting mental health: Physiological factors, Psychological factors and Social factors,
c) Ethical issues in Mental Health

Unit 2: Interpersonal approach to Mental Health   (8 hour

a) Interpersonal approaches to mental health: communication and conflict - non-violence communication, the four horsemen of the apocalypse.
b) Cognitive distortions - personalization, catastrophizing, polarised thinking, should and musts, mental filtering, fallacies (control, change, and heaven's reward), A-B-C model

Unit 3: Mental Health issues   (7 hou

a) Stress / Burnout
b) Anxiety, fear, worry, phobia, depression
c) Grief and trauma
d) Internet addiction

BMS COLLEGE FOR WOMEN

AUTONOMOUS

An Institution under Bengaluru City University

Bengaluru. 560 004

Department of Zoology

Semester III: DSC 3- Course Title: Molecular Biology, Bioinstrumentation& Techniques in Biology

Course outcome: III Sem

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

1. After successful accomplishment of the course, the learners will be able to acquire better understanding and comprehensive knowledge regarding most of the essential aspects of Molecular Biology subject which in turn will provide a fantastic opportunity to develop professional skill related to the field of molecular biology.

2. The course will mainly focus on the study of principal molecular events of cell incorporating DNA Replication, Transcription and Translation in prokaryotic as well as eukaryotic organisms.

3. Acquiring knowledge on instrumentation and techniques in biology.

Semester IV: DSC 4- Course Title: Gene Technology, Immunology and Computational Biology

Course outcome: IV Sem

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

1. Acquaint knowledge on versatile tools and techniques employed in genetic engineering and recombinant DNA technology.

2. An understanding on application of genetic engineering techniques in basic and applied experimental biology.

3. To acquire a fundamental working knowledge of the basic principles of immunology.

4. To understand how these principles, apply to the process of immune function.

5. Use, and interpret results of, the principal methods of statistical inference and design; helps to communicate the results of statistical analyses accurately and effectively; helps in usage of appropriate tool of statistical software.

Semester - III

Course Code: **BVRM3DSC07**
Name of the Course: Cost Accounting
Course Outcomes: On successful completion of the course, the students will be able to :

a) Imbibe conceptual knowledge of Cost accounting.

b) Understand the cost information in cost sheet

c) Acquaint with the procedure of storekeeping, documentation of material receipt and issue, technique on managing the inventory

d) Understand the methods of labor remuneration and calculation of labor cost

e) Procedure for classification, allocation, apportionment of Overheads

Course Code: **BVRM3DSC08**
Name of the Course: **Banking Law and Practice**
Course Outcomes: On successful completion of the course, the students will be able to :

a) Understand the basic concepts of banker and customer & their relationship.

b) Understand the different types of accounts and loans & Advances

c) Understand the trends and innovations in banking.

d) Understand the concepts of Retail Banking & products

e) Explore & understand recent trends in retail banking

Course Code: BVRM3DSC09

Name of the Course: Advertising and Sales Management

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

1. Understand the concept of Advertisement and its importance
2. Understand the framework for advertising media
3. Design and understand the execution of advertisements.
4. Understand the role of international advertising
5. Understand the concept of sales management and promotion

Course Code: BVRM3OE

Name of the Course: Social Media Marketing

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

a) Understand the concept and role of social media marketing.
b) Understand the social media marketing plan.
c) Understand the major social media platforms, there benefits and role they play in marketing.
d) Choose the right social media platform and learn how to create profile in social media platforms.

Semester - IV

Course Code: BVRM4DSC10

Name of the Course: Statistics for Business Decisions

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

a) Provide basic knowledge of statistics and their application to business situations.
b) Analyse different sources of data and methods of collection
c) Graphically represent the statistical data
d) Analyse statistical data using measures of central tendency
e) Apply the concept of measures of dispersion & skewness

Course Code: BVRM4DSC11

Name of the Course: Retail Logistic Management

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

a. Imbibe the Conceptual knowledge of the elements of retail logistics.

b. Understand the logistics management for organized retail business.

c. Understand the Process and types of Outsourcing in Logistics.

d. Explain the components of an integrated logistics management system.

e. Analyse issues and challenges in execution of efficient and effective logistics functions in retail industry

Course Code: BVRM4DSC12

Name of the Course: ICT Application in Retail Business

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

a) Understand the concept of Information and Communication Technology.
b) Understand and develop Knowledge on ICT operations.
c) Understand the different IT Applications used in Retail Business.
d) Present the Purpose and use of Technology of Retail Information System

Analyse recent technology trends in Retail

Course Code: BVRM4OE

Name of the Course: Creativity and Innovation

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

a) Understand the concept of creativity.

b) Learn the Importance of Innovation management

c) Understanding different tools & techniques of creativity

d) Understand business incubators, startups and innovation.

Name of the Course: COST ACCOUNTING

Course Outcomes: On successful completion of the course, the students will be able to-
1. Demonstrate an understanding of the concepts of costing and cost accounting.
2. Classify, allocate apportion overheads and calculate overhead absorption rates.
3. Demonstrate the ability to calculate labour cost
4. Demonstrate the ability to prepare a cost sheet.
5. Prepare material related documents, understand the management of stores and issue procedures.

Name of the Course: ORGANIZATIONAL BEHAVIOUR

Course Outcomes: On successful completion of the course, the students will:
1. Demonstrate an understanding of the role of OB in business organization.
2. Demonstrate an ability to understand individual and group behaviour in anorganization.
3. Be able to explain the effectiveness of organizational change and development of organization.
4. Demonstrate an understanding of the process of organizational development andOD Interventions.

Name of the Course: STATISTICS FOR BUSINESS DECISIONS

Course Outcomes: On successful completion of the course, the students will be able:
1.To understand the basic concepts in statistics.
2.To classify and construct statistical tables.
3.To understand and construct various measures of central tendency, dispersion and skewness
4.To apply correlation and regression for data analysis.

4th semester BBA
Name of the Course: MANAGEMENT ACCOUNTING

Course Outcomes: On successful completion of the course, the students will demonstrate:
1. Explain the application of management accounting and various tool used
2. Make inter – firm and inter- period comparison of financial statements
3. Analyse financial statements using various ratios for business decisions.
4. Prepare fund flow and cash flow statements
5. Prepare different types of budgets for the business.

Name of the Course: BUSINESS ANALYTICS

Course Outcomes: On successful completion of the course, the students will able to:
1. Understand types of analytics and data models.
2. Understand the role of data in decision making, sources and types of Data.
3. Ability to analyse data using different data analytic tools and draw inferences.
4. Understand applied statistics for business problems.
5. Demonstrate visualization of data.

Name of the Course: FINANCIAL MARKETS & SERVICES

Course Outcomes: On successful completion of the course, the students willbe able to:
1. Understand the Overview of Indian financial system.
2. Understand the different types of financial institutions and their role.
3. Understand concept of financial services, types and functions.
4. Understand the different types of financial Instruments and its features.
5. Understand the different types of financial market and its role.

Name of the Course: FINANCIAL MANAGEMENT

Course Outcomes: On successful completion of the course, the students will be able:
1. To identify the goals of financial management.
2. To apply the concepts of time value of money for financial decision making.
3. To evaluate projects using capital budgeting techniques.
4. To design optimum capital structure using EBIT and EPS analysis.
5. To evaluate working capital effectiveness in an organization

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5th Semester BBA

5.1 INCOME TAX - I

OBJECTIVE:
• To expose students to various provision of Income Tax Act relating to the computation of Income of Individual Assessee.

5.2 BUSINESS REGULATIONS
OBJECTIVE:

• To introduce the students to the various Legislations affecting Business and to familiarize them with such Regulations.

5.3 INDIRECT TAXES

OBJECTIVES:

• To impart Students knowledge on GST and Customs Duty. • To make the students to understand the rules, regulation and procedures relating to GST and Customs Duty.

5.4 INFORMATION TECHNOLOGY FOR BUSINESS – I

OBJECTIVES:

• To familiarize students with nature and purpose of database Systems and how they work

• To develop skills among the students to design and implement simple Computer based business Information Systems using MS EXCEL.

• To familiarize students in latest aspects of Information Technology used in business context.

FN 5.5 ADVANCED CORPORATE FINANCIAL MANAGEMENT

OBJECTIVES:

• To provide knowledge on valuation of business enterprises.

• To make students understand the various models of value-based management.

• To give insight on various forms of corporate restructuring.

FN 5.6 SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

OBJECTIVES:

• To provide knowledge and skill in identifying various investment alternatives and choosing the suitable alternatives.

• To orient on the procedures and formalities involved in investing.

MK 5.5 CONSUMER BEHAVIOUR

OBJECTIVE:

• To develop an understanding about the consumer decision-making process and its applications in marketing function of firms.

MK 5.6 INTEGRATED MARKETING COMMUNICATION

OBJECTIVES:

• To familiarize students with essential concepts and techniques for the development and designing of an effective Integrated Marketing Communication program.

- To provide the learning about various communication tools and its effectiveness
- Foster creative ideas among learners for development of effective marketing communication program.

HR 5.5 INDUSTRIAL RELATIONS AND EMPLOYEE LEGISLATION

OBJECTIVE:

- To familiarize students with the Industrial Relations and Legislations relating to Regulatory and Social Security of Employees in India.

HR 5.6 COMPENSATION AND PERFORMANCE MANAGEMENT

OBJECTIVE:

- To enable the students to understand the various methods and practices of Compensation and Performance Management.

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6th Semester BBA
6.1 INCOME TAX - II

OBJECTIVE:
- To make students understand the computation of Taxable Income and Tax Liability of individuals.

6.2 STRATEGIC MANAGEMENT

OBJECTIVE:
- To enable the students to understand the various strategic issues such as Strategic Planning, Implementation and Evaluation.

6.3 INTERNATIONAL BUSINESS

OBJECTIVE:
- To facilitate the students in understanding Globalization and International Business Management.

6.4 INFORMATION TECHNOLOGY FOR BUSINESS – II

OBJECTIVES:
- To familiarize with the aspect of Internet, Email, Search Engine
- To provide an analytical and technical framework to understand the emerging world of Ecommerce.
- To develop skills in E marketing Techniques.
- To familiarize with the aspect of Online Social Networks.

FN 6.5 RISK MANAGEMENT AND DERIVATIVES

OBJECTIVES:

• To make the students to understand the various risks associated with business.

• To provide knowledge on risk measurement and evaluation in making capital budgeting decisions.

• To provide knowledge on risks associated with investments outside the business and strategies for hedging the same with derivatives.

FN 6.6 INTERNATIONAL FINANCE

OBJECTIVES:

• To orient the students on global business environment and international markets.

• To make students understand the various risks an enterprise is exposed to on account of international transactions.

• To provide knowledge and skills for hedging foreign currency risks.

MK 6.5 DIGITAL MARKETING

OBJECTIVE:

• To facilitate the ability to identify the importance of digital marketing for marketing success and to manage customer relationships across all digital channels and to create a digital marketing plan.

HR 6.5 INTERNATIONAL HUMAN RESOURCES MANAGEMENT

OBJECTIVE:

• To familiarize the students with various concepts and issues relating to International Human Resources Management.

HR 6.6 ORGANISATIONAL DEVELOPMENT AND CHANGE MANAGEMENT

OBJECTIVE:

• To enable the students to understand the need for Organizational Change and Development and the OD Interventions for creating Successful Organizations.

Course Outcome

1. ARTIFICIAL INTELLIGENCE

➢ Understand the various characteristics of problem solving agents and apply problem solving through search for AI applications.

➢ Appreciate the concepts of knowledge representation using Propositional logic and Predicate calculus and apply them for inference/reasoning.

➢ Obtain insights about Planning and handling uncertainty through probabilistic reasoning and fuzzy systems.

➢ Understand basics of computer vision and Natural Language Processing and understand their relevance in AI applications.

➢ Obtain insights about machine learning, neural networks, deep learning networks and their significance.

2. DATA ANALYTICS

➢ Explore the fundamental concepts of data analytics

➢ Recognize and conduct statistical inference to solve engineering problems.

➢ Appreciate the science of statistics and the scope of its potential applications

➢ Summarize and present data in meaningful ways

➢ Select the appropriate statistical analysis depending on the research question at hand

➢ Form testable hypotheses that can be evaluated using common statistical analyses Effectively and clearly communicate results from analyses performed to others.

3. WEB PROGRAMMING

➢ Understand the basics of Web Programming concepts

➢ To build dynamic web pages with validation using JavaScript objects and by applying different event-handling mechanisms.

➢ Analyze various PHP library functions that manipulate files and directories.

➢ To develop modern interactive web applications using PHP and XML.

4. DATA MINING

➢ Ability to understand the role of data mining in knowledge discovery process.

➢ To familiarize with various data mining functionalities and how it can be applied to various real-world problems.

➢ To learn about finding data characteristics and evaluating the outcome of data mining process.

5. COMPUTER GRAPHICS

➢ To describe the fundamental algorithms used in computer graphics and to

10. OPERATION RESEARCH

➢ Formulation of optimization model and applying appropriate optimization techniques for decision making.
➢ Solve linear programming problems using appropriate optimization techniques.
➢ Finding the optimal strategy for Minimization of Cost of shipping of products from source to Destination.
➢ Optimizing the allocation of resources to Demand points in the best possible way.

11. SOFTWARE TESTING
➢ Differentiate the various testing techniques
➢ Derive Test Cases for any given problem.
➢ Classify the problem into suitable testing models.
➢ Apply a wide-variety of testing techniques in an effective and efficient manner.
➢ Explain the need for planning and monitoring a process

DEPARTMENT OF Accounting and finance

REGULATIONS PERTAINING TO B.COM- ACCOUNTING & FINANCE DEGREE

2022-2023

COURSE OUTCOME:

Course Outcomes (CO) for various courses in B.Com.

FIRST SEMESTER	
CODE	SUBJECTS
B.Com.AF.1.1	Financial Accounting
B.Com.AF.1.2	Business Mathematics
B.Com.AF.1.3	Business Dynamics and Entrepreneurship
SECOND SEMESTER	
CODE	SUBJECTS
B.Com.AF.2.1	Advance Financial Accounting
B.Com.AF.2.2	Financial Markets and Services
B.Com.AF.2.3	Law & Practice of Banking

Course outcomes (CO) for **B.COM- ACCOUNTING & FINANCE**. Upon completion of Degree programme, the graduates will be able to:

CO1-Acquire the basic knowledge on accounting concepts, conventions and the basics of Accounting Standards

CO2-Prepare Final Accounts of a Sole Trading Concern.

CO3-Calculate average due date for the loans and advances

CO4-Gain knowledge on public enterprises, public utilities and government companies.

CO5-Be aware of fair-trade practices and know their social responsibility.

CO6-Convert the Single-entry accounts into Double entry system of accounting.

CO7-Prepare Trading Account, Profit and Loss Account and Balance Sheet for a Sole Trading Concern.

CO8-Know the concepts of Receipts and Payments and Income and Expenditure Accounts for Non-trading concerns.

CO9-Know the functions of management and the role of a Manager.

CO10-Study about Banking functions.

CO11-Know about the functioning of the Reserve Bank of India

CO12-Understand the elements of marketing mix and functions of marketing.

CO13-Evaluate the pricing methods and physical distribution channels.

CO14-Gain knowledge on the functioning of Multinational Corporations and their trade relationship with Indian Companies.

CO15-Know the basic knowledge about Number System and Equations.

CO16-Analyse the Economic aspects with the application of Mathematics.

CO17-Analyse the Mathematical Applications in business and trade transactions.

CO18-Know the roles of a Company Secretary and Directors.

CO19-Collect information about the avenues open for investors.

DEPARTMENT OF business data analytics

REGULATIONS PERTAINING TO B.COM- Business Data Analytics DEGREE

2022-2023

COURSE OUTCOME:

Course Outcomes (CO) for various courses in B.Com- Business Data Analytics

FIRST SEMESTER	
CODE	SUBJECTS
B.Com.AF.1.1	Financial Accounting
B.Com.AF.1.2	Business Statistics-1
B.Com.AF.1.3	Microsoft Word
SECOND SEMESTER	
CODE	SUBJECTS
B.Com.AF.2.1	Advance Financial Accounting
B.Com.AF.2.2	Business Statistics-1
B.Com.AF.2.3	SQL AND DBMS

Course outcome (CO) for B.COM- Business Data Analytics. Upon completion of Degree programme, the graduates will be able to:

CO1 Learn basic concept of Statistics.

CO2 Analyse the knowledge in statistical measures such as Mean, Median, and Mode

CO3 Gaining knowledge about Statistical tools such as Correlation and Regression used in Business and Research

CO4 Format a Word Document.

CO5 Type texts with columns, use page breaks and accomplish efficient paragraph alignment.

CO6 Create a Pivot table and explain data with the help of Charts

CO7-Acquire the basic knowledge on accounting concepts, conventions and the basics of Accounting Standards

CO8-Prepare Final Accounts of a Sole Trading Concern.

CO9-Calculate average due date for the loans and advances

CO10-Convert the Single-entry accounts into Double entry system of accounting.

CO11-Prepare Trading Account, Profit and Loss Account and Balance Sheet for a Sole Trading Concern.

CO12-Know the concepts of Receipts and Payments and Income and Expenditure Accounts for Non-trading concerns.

CO13-Understand the elements of marketing mix and functions of marketing.

.**CO14**-Know the basic knowledge about Number System and Equations.

CO15-Produces an Entity-Relationship model from a realistic problem specification.

CO16-Describes the conceptual schema of a database.

CO17-Describes the physical schema of a database.

CO18-Designs and applies database from the logical schema model.

CO19-Manages a designed database.

CO20-Arranges database using Relational algebra.

B.M.S COLLEGE FOR WOMEN

DEPARTMENT OF BIOTECHNOLOGY

COURSE OUTCOME

Biotechnology is an integrated study of biological sciences with engineering technologies that manipulate living organisms and biological systems to produce products that advance healthcare, medicine, agriculture, food, Pharmaceuticals and environment control. It is a fascinating science of inventions and innovations play a major part in driving India towards global economy leadership.

Biotechnology is a frontline area of science with immense potential for the benefit of the human kind. With the current pace of technological advancement, Bachelor of Biotechnology graduates can have excellent career prospects.

COURSE OUTCOME:

After the completion of the course, a student is able to:

- Develop awareness & knowledge of different topics of biotechnology through lectures and practical classes.
- Develops laboratory skills like preparation of solutions and culture media, handling of equipment, aseptic techniques, cell culture techniques etc...
- Develop technical and critical thinking skills necessary for success in the field of biotechnology.
- Take up variety of roles like researchers, scientists, consultants, entrepreneurs, academicians, industry leader etc.
- Develop strong foundation for higher study and research in this subject for industrial need and also to pursue further education.
- Develop skills, attitude and values required for self-directed, lifelong learning and professional development.
- Work independently and collaboratively.

II B.Sc-BOTANY

B.Sc. BOTANY: Semester - 3
Theory: Discipline-Specific Core Course (DSCC)
Title of the Course and Code:
BOT-A-3.1: PLANT ANATOMY AND DEVELOPMENTAL BIOLOGY

Course Outcomes:

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

B.Sc. BOTANY – III Semester
Open Elective Course (OEC-3) (OEC for other students)Paper: Landscaping and Gardening
Code: OEC-3.3

Learning outcomes:
After the completion of this course the learner will be able to:
• Apply the basic principles and components of gardening
• Conceptualize flower arrangement and bio-aesthetic planning
• Design various types of gardens according to the culture and art of bonsai
• Distinguish between formal, informal and free style gardens
• Establish and maintain special types of gardens for outdoor and indoor landscaping

B.Sc. BOTANY: Semester - 4

Theory: Discipline Specific Core Course (DSCC)

Title of the Course and Code:

Course Outcomes:

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

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

B.Sc. BOTANY – IV Semester
Open Elective Course (OEC- 4)
(OEC for other students)
Paper:Floriculture Code: OEC-4.3

Learning outcomes:
After completing this course the learner will be able to:
- Develop conceptual understanding of gardening from historical perspective
- Analyse various nursery management practices with routine garden operations.
- Distinguish among the various Ornamental Plants and their cultivation
- Evaluate garden designs of different countries
- Appraise the landscaping of public and commercial places for floriculture. Diagnoses the various diseases and uses of pests for ornamental plants

Course Outcome

1. ARTIFICIAL INTELLIGENCE

- Understand the various characteristics of problem solving agents and apply problem solving through search for AI applications.
- Appreciate the concepts of knowledge representation using Propositional logic and Predicate calculus and apply them for inference/reasoning.
- Obtain insights about Planning and handling uncertainty through probabilistic reasoning and fuzzy systems.
- Understand basics of computer vision and Natural Language Processing and understand their relevance in AI applications.
- Obtain insights about machine learning, neural networks, deep learning networks and their significance.

2. DATA ANALYTICS

- Explore the fundamental concepts of data analytics
- Recognize and conduct statistical inference to solve engineering problems.
- Appreciate the science of statistics and the scope of its potential applications
- Summarize and present data in meaningful ways
- Select the appropriate statistical analysis depending on the research question at hand
- Form testable hypotheses that can be evaluated using common statistical analyses Effectively and clearly communicate results from analyses performed to others.

3. WEB PROGRAMMING

- Understand the basics of Web Programming concepts
- To build dynamic web pages with validation using JavaScript objects and by applying different event-handling mechanisms.
- Analyze various PHP library functions that manipulate files and directories.
- To develop modern interactive web applications using PHP and XML.

4. DATA MINING

- Ability to understand the role of data mining in knowledge discovery process.
- To familiarize with various data mining functionalities and how it can be applied to various real-world problems.
- To learn about finding data characteristics and evaluating the outcome of data mining process.

5. COMPUTER GRAPHICS

- To describe the fundamental algorithms used in computer graphics and to

some extent be able to compare and evaluate them.

> To work and interact, through hands-on experiences, to design, develop, and modify electronically generated imaginary using a wide range of sophisticated graphical tools and techniques.
> To summarize different hidden surface elimination algorithms and shading techniques used in computer graphics and digital media production.

6. Cyber Crimes, Cyber Laws and Intellectual Property Rights

> Understand cyber crimes, their nature, legal remedies and as to how report the crimes through available platforms and procedures.
> Recognize various privacy and security concerns on Social media and e-commerce platforms.
> Use basic tools and technologies to protect their devices.
> Understand digital environment and IPR issues.

7. MACHINE LEARNING

> Learn the basics of machine learning, understanding its uses, challenges, and various applications.
> Build practical data skills, covering data collection, analysis, visualization, and preparation.
> Become skilled in using classification and regression algorithms, including selecting, training, and evaluating models.
> Dive into advanced clustering and specialized applications, using methods like K-Means, DBSCAN, and others.

8. MOBILE APPLICATION DEVELOPMENT

> Understand the basic concepts of Mobile application development.
> Design and develop user interfaces for the Android platforms.
> Apply Java programming concepts to Android application development and create an application using database

9. ELECTRONIC CONTENT DESIGN

> To deliver the content via various media such as radio, television, computer etc.
> To increase students' concentration on particular subject matter in depth learning
> To feel emotionally good with joyful learning and active learning involvement of students during the content delivery
> To reuse many time the content to various group of same class without hesitate and unchanging.
> To handle easy to the facilitators during the content delivery.
> To modify the content with present time needs.

10. OPERATION RESEARCH

➤ Formulation of optimization model and applying appropriate optimization techniques for decision making.
➤ Solve linear programming problems using appropriate optimization techniques.
➤ Finding the optimal strategy for Minimization of Cost of shipping of products from source to Destination.
➤ Optimizing the allocation of resources to Demand points in the best possible way.

11. SOFTWARE TESTING

➤ Differentiate the various testing techniques
➤ Derive Test Cases for any given problem.
➤ Classify the problem into suitable testing models.
➤ Apply a wide-variety of testing techniques in an effective and efficient manner.
➤ Explain the need for planning and monitoring a process

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Basavanagudi, Bengaluru – 04

Department of B.Voc - RM

Semester - III

Course Code: **BVRM3DSC07**
Name of the Course: Cost Accounting
Course Outcomes: On successful completion of the course, the students will be able to :

    a) Imbibe conceptual knowledge of Cost accounting.

    b) Understand the cost information in cost sheet

    c) Acquaint with the procedure of storekeeping, documentation of material receipt and issue, technique on managing the inventory

    d) Understand the methods of labor remuneration and calculation of labor cost

    e) Procedure for classification, allocation, apportionment of Overheads

Course Code: BVRM3DSC08
Name of the Course: Banking Law and Practice
Course Outcomes: On successful completion of the course, the students will be able to :

    a) Understand the basic concepts of banker and customer & their relationship.
    b) Understand the different types of accounts and loans & Advances
    c) Understand the trends and innovations in banking.
    d) Understand the concepts of Retail Banking & products
    e) Explore & understand recent trends in retail banking

Course Code: BVRM3DSC09
Name of the Course: Advertising and Sales Management
Course Outcomes: On successful completion of the course, the students will be able to

    1. Understand the concept of Advertisement and its importance
    2. Understand the framework for advertising media
    3. Design and understand the execution of advertisements.
    4. Understand the role of international advertising
    5. Understand the concept of sales management and promotion

Course Code: BVRM3OE
Name of the Course: Social Media Marketing
Course Outcomes: On successful completion of the course, the students will be able to

    a) Understand the concept and role of social media marketing.

b) Understand the social media marketing plan.

c) Understand the major social media platforms, there benefits and role they play in marketing.

d) Choose the right social media platform and learn how to create profile in social media platforms.

Semester - IV

Course Code: BVRM4DSC10
Name of the Course: Statistics for Business Decisions
Course Outcomes: On successful completion of the course, the Students will be able to:

a) Provide basic knowledge of statistics and their application to business situations.

b) Analyse different sources of data and methods of collection

c) Graphically represent the statistical data

d) Analyse statistical data using measures of central tendency

e) Apply the concept of measures of dispersion & skewness

Course Code: BVRM4DSC11
Name of the Course: Retail Logistic Management
Course Outcomes: On successful completion of the course, the students will be able to

a. Imbibe the Conceptual knowledge of the elements of retail logistics.

b. Understand the logistics management for organized retail business.

c. Understand the Process and types of Outsourcing in Logistics.

d. Explain the components of an integrated logistics management system.

e. Analyse issues and challenges in execution of efficient and effective logistics functions in retail industry

Course Code: BVRM4DSC12
Name of the Course: ICT Application in Retail Business
Course Outcomes: On successful completion of the course, the Students will be able to

a) Understand the concept of Information and Communication Technology.

b) Understand and develop Knowledge on ICT operations.

c) Understand the different IT Applications used in Retail Business.

d) Present the Purpose and use of Technology of Retail Information System

Analyse recent technology trends in Retail

Course Code: BVRM4OE
Name of the Course: Creativity and Innovation
Course Outcomes: On successful completion of the course, the students will be able to

a) Understand the concept of creativity.

b) Learn the Importance of Innovation management

c) Understanding different tools & techniques of creativity
d) Understand business incubators, startups and innovation.

CHEMISTRY

DSC-3: Analytical and Organic Chemistry-III

Course Objectives:
1) Interrelationship among frequency, wavelength and wave number and importance of validation parameters of an instrumental method will be taught
2) Principle, instrumentation and applications of spectrophotometry, nephelometry and turbidimetry will be taught
3) Fundamentals of separation methods and principles of paper, thin layer and column chromatography will be taught
4) Principle, types and applications of solvent extraction will be taught
5) Principle and mechanism of ion-exchange, types of resins and domestic and industrial applications of ion-exchange chromatography will be taught
6) The concept of mechanism and its importance will be taught to the student
7) Concept and importance of intermediates in organic chemistry will be taught taking proper examples
8) The various techniques for identification of reaction mechanism will be taught to the student taking proper examples
9) Concept of stereochemistry and its importance will be taught.
10) The various projection formulae and the techniques of designating the molecules into R, S, D, L will be taught taking proper examples
11) The theory and concept of Cis-Trans- isomerism and its importance and the techniques to differentiate between them will be taught taking examples

Course Specific Outcomes

After the completion of this course, the student would be able to
1) Understand the importance of fundamental law and validation parameters in chemical analysis
2) Know how different analytes in different matrices (water and real samples) can be determined by spectrophotometric, nephelometric and turbidometric methods.
3) Understand the requirement for chemical analysis by paper, thin layer and column chromatography.
4) Apply solvent extraction method for quantitative determination of metal ions in different samples
5) Utilize the ion-exchange chromatography for domestic and industrial applications
6) Explain mechanism for a given reaction.
7) Predict the probable mechanism for a reaction. Explain the importance of reactive intermediates role and techniques of generating such intermediates
8) Explain the importance of Stereochemistry in predicting the structure and property of organic molecules.
9) Predict the configuration of an organic molecule and able to designate it.
10) Identify the chiral molecules and predict its actual configuration

CHEMISTRY DSC- 4:
Inorganic and Physical Chemistry - IV

Course Objectives:
Students learn about
1. Different types of bonding in molecules/compounds/ions
2. The structures of molecules/compounds/ions based on different models/theories
3. Properties of compounds based on bonding and structure
4. The fundamentals of thermodynamics including the laws, the concept of entropy and free energy functions and their applications.
5. The concepts of surface chemistry, catalysis and their applications.
6. The theoretical and experimental aspects of chemical kinetics including basic theories of reaction rates and methods of determining order.
7. Electrochemistry dealing with electrolytes in solution. Conductance measurements and applications. Concept of ionic mobility and their determination.

Course outcomes:
After the completion of this course, the student would be able to :
1. Predict the nature of the bond formed between different elements
2. Identify the possible type of arrangements of ions in ionic compounds
3. Write Born - Haber cycle for different ionic compounds
4. Relate different energy parameters like lattice energy, entropy, enthalpy and solvation energy in the dissolution of ionic solids
5. Explain covalent nature in ionic compounds
6. Write the M.O. energy diagrams for simple molecules
7. Differentiate bonding in metals from their compounds
8. Learn important laws of thermodynamics and their applications to various thermodynamic systems
9. Understand adsorption processes and their mechanisms and the function and purpose of a catalyst
10. Apply adsorption as a versatile method for waste water purification.
11. Understand the concept of rate of a chemical reaction, integrated rate equations, energy of activation and determination of order of a reaction based on experimental data
12. Know different types of electrolytes, usefulness of conductance and ionic mobility measurements
13. Determine the transport numbers

Course Title: FUNDAMENTALS OF NUTRITION (DSC-1)

Course outcomes (COS):

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

1. To understand the guidelines of diet requirements
2. To learn about different methods and principle of cooking
3. To understand the role of macro nutrients in human nutrition
4. To understand their physiological functions, requirements, and sources of macronutrients
5. To acquire knowledge on food sanitation and hygiene
6. To understand food laws and food regulations

Course Title: ESSENTIALS OF MACRO NUTRIENTS (DSC- 2)

Course Outcomes (COs): At the end of the course the student should be able to:

1. Understand significance of Macro nutrients in the diet
2. Understand their physiological functions, requirements, and sources of macronutrients

Course Title: FOOD SANITATION AND HYGYEINE (DSC-3)

Course Outcomes (COs): At the end of the course the student should be able to:

1. Understand importance of food hygiene
2. Understand the procedure for cleaning and sanitation

II Semester BSc

Course Title: HUMAN PHYSIOLOGY (DSC – 4)
Course Outcomes (COs):

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

1 To gain elementary knowledge of functions of organ systems in the human body.

2 To learn about the physiological functions, sources, requirements, micronutrients andits deficiencies

3 To understand the concept of water balance and the function of electrolytes inhuman nutrition

4 To understand the major nutritional problems in populations
5 To study the different programs and interventions for improving nutritional status.

Course Title: ESSENTIALS OF MICRO-NUTRIENTS (DSC – 5)
Course Outcomes (COs):

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

1. Understand the significance of micronutrients
2. Know the role of water and electrolytes in the body.

Course Title: FOOD SAFETY AND SECURITY (DSC-6)
Course Outcomes (COs):

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

1. Understand food laws, regulations and policies
2. Know about food safety and food adulteration