



B.M.S. COLLEGE FOR WOMEN
Autonomous Institution under Bengaluru City University
Bugle Rock Road, Basavanagudi,
Bengaluru – 560004
NAAC Accreditation 'A'

DEPARTMENT OF ACCOUNTING AND FINANCE

REGULATIONS PERTAINING TO B.COM- ACCOUNTING & FINANCE DEGREE

2023-2024

PROGRAMME OUTCOME:

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

- PO1-** Acquire the essential knowledge on the successful prospects of business.
- PO2-** Be employable, exhibit entrepreneurial drive and be a model of principled and ethically sound business professionals..
- PO3-** Gain analytical skill in undertaking commercial ventures and evaluate the pros and cons of embarking on trade and trade related activities based on their in-depth knowledge.
- PO4 -** Enables learners to get theoretical and practical exposure in the commerce sector which includes Accounts, Commerce, Marketing, Management, Economics, and Environment.
- PO5 –** Makes students industry ready and develop various managerial and accounting skills for better professional opportunities.
- PO6 -** Strengthens their capacities in varied areas of commerce and industry aiming towards holistic development of learners.
- PO7-** Enables learners to prove themselves in different Professional examinations like CA, CS, ICWA, CAT, CMA, FDA, SDA KPSC, UPSC etc.
- PO8-**Students will learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.
- PO9-**Students get opportunities to explore many career paths like investment and portfolio management, stock market, security analysis, mutual fund and capital market analysis, accounting field, financial field etc.
- PO10-**Learners will acquire the skills like effective communication, decision making, problem solving, business analysis, in day to day business activities.
- PO11-**To develop ethical managers with substantial integrity and social responsibility
- PO12-**Learners will be able to do higher education and advance research in the field of commerce and finance.

TRP 10/1/25

BUSINESS DATA ANALYTICS

REGULATIONS PERTAINING TO B.COM- Business Data Analytics DEGREE

2023-2024

PROGRAMME OUTCOME:

Programme Outcomes (PO) for **B.COM- business data analytics**. Upon completion of Degree programme, the graduates will be able to:

PO1- Acquire the essential knowledge on the successful prospects of business.

PO2- Be employable, exhibit entrepreneurial drive and be a model of principled and ethically sound business professionals..

PO3- Gain analytical skill in undertaking commercial ventures and evaluate the pros and cons of embarking on trade and trade related activities based on their in-depth knowledge.

PO4 - Enables learners to get theoretical and practical exposure in the commerce sector which includes Accounts, Commerce, Marketing, Management, Economics, and Environment.

PO5 – Makes students industry ready and develop various managerial and accounting skills for better professional opportunities.

PO6 - Strengthens their capacities in varied areas of commerce and industry aiming towards holistic development of learners.

PO7- Enables learners to prove themselves in different Professional examinations like CA, CS, ICWA, CAT, CMA, FDA, SDA KPSC, UPSC etc.

PO8-Students will learn relevant managerial accounting career skills, applying both quantitative and qualitative knowledge to their future careers in business.

PO9-Students get opportunities to explore many career paths like investment and portfolio management, stock market, security analysis, mutual fund and capital market analysis, accounting field, financial field etc.

PO10-Learners will acquire the skills like effective communication, decision making, problem solving, business analysis, in day to day business activities.

PO11-To develop ethical managers with substantial integrity and social responsibility

PO12-Learners will be able to do higher education and advance research in the field of commerce and finance.

RA 10/11/25

Program Outcomes: B.Voc-IT UG Program

1. **Discipline knowledge:** Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity
2. **Problem Solving:** Improved reasoning with strong mathematical ability to Identify, formulate and analyse problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.
3. **Design and Development of Solutions:** Ability to design and development of algorithmic solutions to real world problems and acquiring a minimum knowledge on statistics and optimization problems. Establishing excellent skills in applying various design strategies for solving complex problems.
4. **Programming a computer:** Exhibiting strong skills required to program a computer for various issues and problems of day-to-day applications with thorough knowledge on programming languages of various levels.
5. **Application Systems Knowledge:** Possessing a sound knowledge on computer application software and ability to design and develop app for applicative problems.
6. **Modern Tool Usage:** Identify, select and use a modern scientific and IT tool or technique for modelling, prediction, data analysis and solving problems in the area of Computer Science and making them mobile based application software.
7. **Communication:** Must have a reasonably good communication knowledge both in oral and writing.
8. **Project Management:** Practicing of existing projects and becoming independent to launch own project by identifying a gap in solutions.
9. **Ethics on Profession, Environment and Society:** Exhibiting professional ethics to maintain the integrity in a working environment and also have concern on societal impacts due to computer-based solutions for problems
10. **Lifelong Learning:** Should become an independent learner. So, learn to learn ability.
11. **Motivation to take up Higher Studies:** Inspiration to continue educations towards advanced studies on Computer Science.

M.Com:

Programme Outcome:

Upon completion of the M.Com. Degree Programme, the graduate will be able to:

- Master of Commerce (M.Com) is a Post Graduate program designed to acquire the techniques of managing the business with special focus on accounting, finance, taxation and banking.
- M.Com course has been designed to develop critical, analytical, cognitive skills among the students. The course provides a platform to students to articulate their multidimensional skills in diverse magnitude
- The concepts, process and the requirements for starting up and carrying on a business or a profession are incorporated in the courses to develop entrepreneurial qualities among the students.
- Employability skills required to make the students efficient and disciplined employees in business and professional organizations are embedded in the courses of this programme.
- Opportunities are created through the courses to enhance the communication and presentation skills among the students.
- The methods of teaching and learning the courses will lead the students in building up the teamwork skills necessary for the students to work as a team of administrators, managers and employees.
- Courses have been prepared to infuse the sense of social responsibilities and to apply in business and professions the principles of ethics.
- Application of concepts, process and methods learnt in class rooms and practical learning are provided through courses and internships in this programme.
- Leadership qualities are enhanced by making the students organize events learnt and understood through the courses in the programme.
- . In order to meet the challenges of today's complicated world, our vision is to build a solid foundation of self-concept, so that they can acquire the necessary inner and outer life skills that can help them to take on the challenges that life presents confidently.

BMS College for Women
Autonomous
Post Graduate Department of Mathematics

Programme name: M.Sc. Mathematics

Programme outcome

PO1:	Apply knowledge of Mathematics, in all the fields of learning including higher research and its extensions.
PO2:	Innovate, invent and solve complex mathematical problems using the knowledge of pure and applied mathematics.
PO3:	Explain the knowledge of contemporary issues in the field of Mathematics and Applied sciences.
PO4:	Crack lectureship and fellowship exams approved by UGC like CSIR – NET and SET, Identify the need and scope of the Interdisciplinary research. Enhance disciplinary competency, employability and leadership skills.

Program specific outcome

SPO1:	To develop problem-solving skills and apply them independently to problems in pure and applied mathematics.
SPO2:	To assimilate complex mathematical ideas and arguments.
SPO3:	To improve own learning and performance.
SPO4:	To develop abstract mathematical thinking.

Programme outcome

PO1: Master of Science basically aims at the training of students with a detailed knowledge in their area of study.

PO2: Learners will adopt the skills and knowledge required to the professional life and to acquire knowledge towards scientific research

PO4: Acquire the skills of planning and conducting advanced experiments by applying suitable analytical techniques.

PO5: Examine specific phenomena theoretically and practically which contribute to the generation of new scientific insights.

Program specific outcome

SPO1: Students will equip themselves with up-to-date knowledge in the field of frontier areas of chemistry.

SPO2: Students will be trained to qualify CSIR – NET and other Competitive examinations and also get motivated to take up higher studies.

SPO3: Attain confidence to take up R & D positions in industry, teaching at higher education institutions, and take part in various public sector.

SPO4: Learners will be able to use their knowledge in day to day life and work for betterment of society.

**B.M.S.College for Women, Autonomous
Basavanagudi, Bengaluru – 04**

Department of B.Voc - RM

PROGRAM OUTCOME:

- PO1:** Graduates will have adequate Knowledge and Skills so they are work ready at each exit point of the programme.
- PO2:** Graduates will be able to work in retail industry and contribute to economic development of the country.
- PO3:** Graduates will be successful in pursuing higher studies in their respective domain.
- PO4:** Graduates will have adequate entrepreneurial skills to start their own enterprise.
- PO5:** Graduates will pursue career path in teaching or research.

Semester - V

Course Code: BVRM5DSC13

Name of the Course: Warehousing & Inventory Management

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

- a) Identify business strategies and its competitive advantage
- b) Know about logistics operations and its optimum utilization
- c) Familiarize with inventory management in the warehouse.
- d) Understand the importance of holding inventory by the organization.
- e) Describe ABC inventory systems, calculate an Economic Order Quantity(EOQ) and safety stock

Course Code: BVRM5DSC14

Name of the Course: Income Tax – I

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

- a) Understand the framework of income tax as well scheme of taxation.
- b) Understand different exempted incomes u/s 10.
- c) Determine the residential status of individual.
- d) Ability to solve the practical problems on income from salary.
- e) Ability to solve the practical problems on income from House Property.

State Education Policy Syllabus for Bachelor of Science (BSc Degree)

I & II Semester Mathematics Course

Program Outcomes (PO): By the end of the program the students will be able to:

PO1	Disciplinary Knowledge: Bachelor degree with Mathematics as one of subjects in chosen combination 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
PO2	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 modelling and solving of real-life problems.
PO3	Critical thinking and analytical reasoning: The students undergoing this program acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real-life problems.
PO4	Problem Solving: The Mathematical knowledge gained by the students through this program develop an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This program enhances students' overall development and also equip them with mathematical modelling ability, problem solving skills.
PO5	Research related skills: The completing this program develop the capability of inquiring about appropriate questions related to the Mathematical concepts in different areas of Mathematics.
PO6	Information/digital Literacy: The completion of this program will enable the learner to use appropriate software's to solve system of algebraic equation and differential equations.
PO7	Self – directed learning: The student completing this program will develop ability of working independently and to make an in-depth study of various notions of Mathematics.
PO8	Moral and ethical awareness/reasoning: The student completing this 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.
PO9	Lifelong learning: This program provides self-directed learning and lifelong learning skills. This program helps the learner to think independently and develop algorithms and computational skills for solving real word problems.
PO10	Ability to peruse advanced studies and research in pure and applied Mathematical sciences.

ಬಿ.ಎಲ್.ಎಸ್ ಮಹಿಳಾ ಮಹಾವಿದ್ಯಾಲಯ
ಬಸವನಗುಡಿ, ಬೆಂಗಳೂರು - 04

ಕನ್ನಡ ವಿಭಾಗ

COURSE OUTCOME – 1ST And 2ND YEAR

Course Outcomes (COs)/ program outcomes (Pos)	1 ಬಿ.ಎ	2 ಬಿ.ಎ ಸಿ	3 ಬಿ.ಕಾಂ	4 ಬಿ.ಬಿ.ಎ/ಬಿ. ವೋಕ್ ಆರ್.ಎಂ	5 ಬಿ.ಸಿ.ಎ/ಬಿ. ವೋಕ್. ಐ.ಟಿ	6 ಐಚ್ಛಿಕ ಕನ್ನಡ	7 ಕನ್ನಡೀ ತರರಿಗೆ ಕನ್ನಡ	8 ಮುಕ್ತ ಆಯ್ಕೆ ಕನ್ನಡ
1.ವಿವಿಧ ಬರಹಗಾರರು, ಸಾಹಿತ್ಯ ಕೃತಿಗಳು ಮತ್ತು ಸಾಹಿತ್ಯ ಚಳವಳಿಗಳ 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	/	/	/	/		/		

S.R. Ravula

ರಾಧಾ ಸಾಡಿಗ್, ಮುಖ್ಯಸ್ಥರು
ಕನ್ನಡ ವಿಭಾಗ

ಬಿ.ಎಂ.ಎಸ್ ಮಹಿಳಾ ಮಹಾವಿದ್ಯಾಲಯ

ಬಸವನಗುಡಿ, ಬೆಂಗಳೂರು - 04

ಕನ್ನಡ ವಿಭಾಗ

COURSE OUTCOME - 1ST And 2ND YEAR

ತಿಳುವಳಿಕೆಯನ್ನು ಹೊಂದುವುದು.								
5.ವೈಚಾರಿಕ-ವೈಜ್ಞಾನಿಕ ಚಿಂತನೆಗಳನ್ನು ಅಳವಡಿಸಿಕೊಳ್ಳುವುದು.	/	/	/	/		/		
6.ಭಾಷಾ ಕೌಶಲ್ಯವನ್ನು ಬೆಳೆಸಿಕೊಳ್ಳುವುದು.	/		/		/	/	/	
7.ನಾಹಿತ್ಯದ ಓದು ತಿಳುವಳಿಕೆ ಹಾಗೂ ಬರವಣಿಗೆಯನ್ನು ರೂಢಿಸಿಕೊಳ್ಳುವುದು.	/	/		/		/	/	
8.ನಾಡು-ನುಡಿಯನ್ನು ಕುರಿತು ಅರಿವನ್ನು ಹೆಚ್ಚಿಸಿಕೊಳ್ಳುವುದು.	/	/	/			/		/
9.ಸಮಕಾಲೀನ ವಿದ್ಯಮಾನಗಳ ಅರಿವು.	/	/	/	/		/	/	
10.ಸಾಮಾಜಿಕ ಹೊಣೆಗಾರಿಕೆಯ ಅರಿವು	/	/		/		/		/
11. ಸದ್ಯದ ಬೌದ್ಧಿಕ ವ್ಯಕ್ತಿತ್ವ ನಿರ್ಮಾಣ	/		/	/	/		/	

S.R.Rastha

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BMS COLLEGE FOR WOMEN AUTONOMOUS
Basavanagudi, Bengaluru - 560004

DEPARTMENT OF BUSINESS ADMINISTRATION
2023-2024

Programme Outcome:

1. This programme will help students in acquisition of knowledge of various management functions.
2. Students can apply knowledge in the field of corporate administration, operations management, finance, HR, accountancy to face the challenges in the corporate environment.
3. Students will be able to implement corporate skills and life skills.
4. Students will be able to acquire professional education in the area of business.
5. Acquisition of the requisite skills to become an entrepreneur.
6. Students will develop the ability to face social challenges.
7. Students will be able to demonstrate experiential learning

Programme Specific Outcomes:

1. The courses in this program are meant to help students have a better knowledge of business concerns and the economy as a whole.
2. The program will assist students in comprehending and evaluating numerous systems, policy frameworks, and methods required to manage rapid changes in an organization's globally focused environment, such as providing them with an awareness of the present business.
3. The program also incorporates hands-on experience through case studies, projects, presentations, industrial visits, and discussions with industry professionals.
4. It enables students to get sufficient knowledge in the areas of business administration, human resource management, organizational behavior, business communication, management skills, corporate administration, finance management, and business management.

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 |

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 outcome

B.M.S. COLLEGE FOR WOMEN
BASAVANAGUDI, BENGALURU – 560004
DEPARTMENT OF BOTANY

B.SC. CBZ/CBBT - BOTANY PROGRAMME OUTCOMES

Programme Outcome	
1	<p>Knowledge and understanding of:</p> <ul style="list-style-type: none"> • The range of plant diversity in terms of structure, function and environmental relationships. • The evaluation of plant diversity. • The role of plants in the functioning of the global ecosystem.
2	<p>Intellectual skills – able to:</p> <ul style="list-style-type: none"> • Think logically and organize tasks into a structured form. • Assimilate knowledge and ideas based on wide reading and through the internet. • Transfer of appropriate knowledge and methods from one topic to another within the subject.
3	<p>Practical skills:</p> <ul style="list-style-type: none"> • Students learn to carry out practical work, in the field and in the laboratory, with minimal risk. • Interpreting plant morphology and anatomy. • Plant identification. • Vegetation analysis techniques. • A range of physiochemical analyses of plant materials in the context of plant physiology and biochemistry
4	<p>Scientific Knowledge:</p> <ul style="list-style-type: none"> • Apply the knowledge of basic science, life sciences and fundamental process of plants to study and analyse any plant form.
5	<p>Problem analysis:</p> <ul style="list-style-type: none"> • Identify the taxonomic position of plants, formulate the research literature, and analyse non reported plants with substantiated conclusions using first principles and methods of nomenclature and classification in Botany.
6	<p>Design/development of solutions:</p> <ul style="list-style-type: none"> • Design solutions from medicinal plants for health problems, disorders and disease of human beings and estimate the phytochemical content of plants which meet the specified needs to appropriate consideration for the public health
7	<p>Modern tool usage:</p> <ul style="list-style-type: none"> • Create, select, and apply appropriate techniques, resources, and modern instruments and equipments for Biochemical estimation, Molecular Biology, Biotechnology, Plant Tissue culture experiments, cellular and physiological activities of plants with an understanding of the application and limitations.
8	<p>Environment and sustainability:</p> <ul style="list-style-type: none"> • Understand the impact of the plant diversity in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.
9	<p>Ethics:</p> <ul style="list-style-type: none"> • Apply ethical principles and commit to environmental ethics and responsibilities and norms of the biodiversity conservation.

BSc Clinical Nutrition and Dietetics

Program Outcomes: At the end of the program the student should be able to:

- PO1. Understand the basic concepts of food science and nutrition and the role of food and nutrients in growth, development, disease prevention, and management.
- PO2. Explain functions of macro and micronutrients, deficiencies, and disorders, and identify foods rich in specific nutrients.
- PO3. Understand the complex processes of human physiology, metabolism, and human biochemistry regarding energy and nutrition requirements.
- PO4. Competent in implementing food safety regulations and creating awareness about sanitation, safety, and hygiene for individuals, families, and communities.
- PO5. Understand food and nutrition security and create awareness for the public and communities. PO6. Evaluate and assess the nutrient requirements of infants, children, and adults.
- PO7. Critically analyse the nutritional status of different age groups, and design diet plans as per the nutritional requirements.
- PO8. Understand the importance of nutrition in lifestyle disorders and derive a plan accordingly.
- PO9. Apply technical skills, knowledge of nutrition, and decision-making skills, assessing capabilities in evaluating the nutritional status of individuals and communities and their response to nutrition intervention.
- PO10. Provide nutrition awareness and counseling to individuals, groups, and communities.
- PO11. Competence in the skills of Nutritional assessment, Diet planning, and Food service management in healthcare systems, communities, and institutions
- PO12. Shall be able to understand the principles of fitness and nutrition during various stages of life cycle such as childhood, adolescence, and old age and assess and evaluate their dietary and exercise habits.
- PO13. Data collection and interpretation in nutrition surveys and critical analysis to resolve complex societal problems.
- PO14. Maintain ethical, legal, and professional practice standards during nutritional counseling or consultancy and take leadership roles in fields of health, food research laboratories, dietetics, special nutritional needs, and nutritional counseling.
- PO15. Practice and implement state of art nutrition care or consultancy in the health food industry, critical care nutrition segments, clinical setups, nutraceutical industry, sports and fitness centers, therapeutic nutrition product manufacturing setups, geriatric care units, meal/food distribution centers, women and child development organizations, Food auditing setups, Food testing labs, and Food corporations.

BSc Clinical Nutrition and Dietetics

Program Outcomes: At the end of the program the student should be able to:

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PO3. Understand the complex processes of human physiology, metabolism, and human biochemistry regarding energy and nutrition requirements.

PO4. Competent in implementing food safety regulations and creating awareness about sanitation, safety, and hygiene for individuals, families, and communities.

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Department of Zoology

2023-24

Program Outcome

PO1 – Students gain knowledge and skill in the fundamentals of animal sciences, understands the complex interactions among various living organisms.

PO2 – Analyse complex interactions among the various animals of different phyla, their distribution and their relationship with the environment.

PO3 – Apply the knowledge of internal structure of cell, its functions in control of various metabolic functions of organisms.

PO4 – Understands the complex evolutionary processes and behaviour of animals.

PO5 – Correlates the physiological processes of animals and relationship of organ systems.

PO6 – Understanding of environmental conservation processes and its importance, pollution control and biodiversity and protection of endangered species.

PO7 – Gain knowledge of small scale industries like sericulture, fish farming, bee keeping, aquaculture, animal husbandry, poultry farm.

Program Specific Outcomes:

PSO1. Understand the nature and basic concepts of cell biology, genetics, taxonomy, physiology, biochemistry, ecology, evolutionary biology, developmental biology and applied and economic zoology.

PSO2. Analyse the relationships among animals, plants and microbes, Wildlife conservation, Environmental science, Biostatistics and Bioinformatics

PSO3. Perform procedures as per laboratory standards in the areas of Taxonomy, Physiology, Ecology, Cell biology, Genetics, Applied Zoology, Molecular, tools and techniques of Zoology, Sericulture, Biochemistry, Fish biology, gene biotechnology.

PSO4. Understand the applications of biological sciences in Apiculture, Aquaculture, Sericulture, Animal Husbandry, Poultry Farm.

PSO5. Gains knowledge about effective communication and skills of problem solving methods.

PSO6. Contributes the knowledge for Nation building.

PSO7 – Understands about various concepts of genetics and its importance in human health.

PSO8 - Apply ethical principles and commit to professional ethics and responsibilities in delivering his duties.

PSO9 – Apply the knowledge and understanding of Zoology to one's own life and work.

PSO10 – Develops empathy and love towards the animals.

PSO11- Inculcates research aptitude.

B.M.S. COLLEGE FOR WOMEN
Autonomous
Affiliated to Bengaluru City University
DEPARTMENT OF MICROBIOLOGY

PROGRAMME OUTCOME:

PO 1: Critical Thinking: The students are well trained to analyse the situation and develop the critical thinking, problem solving mindsets

PO 2: Environment and Sustainability: Curriculum gives the knowledge about the environmental issues and working towards Sustainable development.

PO 3: Communicative Skills: The communication among the students is strengthened in graduates.

PO 4: Carrier making: The curriculum focus on the students with different disciplines are well placed in their carriers.

STATEMENTS OF PROGRAMME SPECIFIC OUTCOMES (PSOs)

PSO 1: Theoretical and Practical skills of the Programme are rendered to the students to play a vital role in the society to **diagnose and treat the existing and new emerging microbial diseases.**

PSO 2: In-house project- the students are trained to develop research attitude by encouraging students to carry on projects apart from their curriculum topics.

PSO 3: Industrial Visits as per the curriculum provides an exposure to Industrial knowledge to students and make them employable to work in companies.

PSO 4: Workshops conducted prepares the students for getting with new techniques apart from curriculum

Radhika S
10/01/2025

Head of the Department of Microbiology
B.M.S. College for Women
(Autonomous)
Basavanagudi, Bengaluru - 560 004.

Program Outcomes: **BCA (3 Years) Degree**

1. **Discipline knowledge:** Acquiring knowledge on basics of Computer Science and ability to apply to design principles in the development of solutions for problems of varying complexity
2. **Problem Solving:** Improved reasoning with strong mathematical ability to Identify, formulate and analyze problems related to computer science and exhibiting a sound knowledge on data structures and algorithms.
3. **Design and Development of Solutions:** Ability to design and development of algorithmic solutions to real world problems and acquiring a minimum knowledge on statistics and optimization problems. Establishing excellent skills in applying various design strategies for solving complex problems.
4. **Programming a computer:** Exhibiting strong skills required to program a computer for various issues and problems of day-to-day applications with thorough knowledge on programming languages of various levels.
5. **Application Systems Knowledge:** Possessing a sound knowledge on computer application software and ability to design and develop app for applicative problems.
6. **Modern Tool Usage:** Identify, select and use a modern scientific and IT tool or technique for modeling, prediction, data analysis and solving problems in the area of Computer Science and making them mobile based application software.
7. **Communication:** Must have a reasonably good communication knowledge both in oral and writing.
8. **Project Management:** Practicing of existing projects and becoming independent to launch own project by identifying a gap in solutions.
9. **Ethics on Profession, Environment and Society:** Exhibiting professional ethics to maintain the integrality in a working environment and also have concern on societal impacts due to computer-based solutions for problems.
10. **Lifelong Learning:** Should become an independent learner. So, learn to learn ability.
11. **Motivation to take up Higher Studies:** Inspiration to continue educations towards advanced studies on Computer Science.

Department of Psychology

Course outcomes 2023-24

Paper title: Health Psychology

Semester: V (paper 05)

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

- a) Understand the subject matter of health psychology.
- b) Understand the correlates of pain, illness and its management.
- c) Understand the impact of stress on health.
- d) Have awareness about health enhancing and compromising lifestyles.
- e) Attain and maintain one's health through coping strategies and interventions.

Paper title: Social Psychology

Semester: V (paper 06)

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

- a) Develop an understanding of the individual in relation to the social world.
- b) Introduce students to realm of social influences on behaviour.
- c) Understand the various social issues prevalent.
- d) Know the significance of Interpersonal Relationship.
- e) Sensitize the students about social issues.

Paper title: Abnormal Psychology

Semester: VI (paper 07)

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


- a) Impart knowledge about the difference between the concepts of normality and abnormality to dispel myths regarding abnormality. Familiarize students with criteria and classification of psychological disorders.
- b) Provide an overview of the symptoms and etiology of various psychological disorders.
- c) Introduce students to different perspectives regarding the causation of mental illnesses.
- d) Familiarize students with a conceptual overview of abnormal behaviour

Paper title: Human Resource Management

Semester: VI (paper 08)

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

- a) Understand the nature, objectives and functions of HRM with psychological perspective
- b) Understand the processes of selection and tools of training.
- c) Know the tools of performance appraisal in work setting.
- d) Know the application of electronic in HR and management of international HR.
- e) Utilize available human resource effectively


Head of the Department of Psychology
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Department of Psychology

Course outcomes 2023-24

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DEPARTMENT OF COMPUTER SCIENCE
BCA SUBJECTS WITH COURSE OUTCOME 2023 - 2024

II BCA	BCA3DSC07	OPERATING SYSTEMS
Course Outcome : <ul style="list-style-type: none"><input type="checkbox"/> Understands the different services provided by Operating System at different level.<input type="checkbox"/> They learn real life applications of Operating System in every field.<input type="checkbox"/> Understands the use of different process scheduling algorithm and synchronization techniques to avoid deadlock.<input type="checkbox"/> They will learn different memory management techniques like paging, segmentation and demand paging etc.		

II BCA	BCA3DSC08	COMPUTER NETWORKS
Course Outcome : <ul style="list-style-type: none"><input type="checkbox"/> To develop an understanding of computer networking basics.<input type="checkbox"/> To develop an understanding of different components of computer networks, various protocols, modern technologies and their applications.<input type="checkbox"/> To identify the different types of network topologies and protocols.<input type="checkbox"/> Enumerate the layers of OSI model and TCP/IP model.		

II BCA	BCA3DSC09	PYTHON PROGRAMMING
Course Outcome : <ul style="list-style-type: none"><input type="checkbox"/> To understand why Python is a useful scripting language for developers.<input type="checkbox"/> To design and program Python applications.<input type="checkbox"/> To use lists, tuples, and dictionaries in Python programs.<input type="checkbox"/> To identify Python object types.<input type="checkbox"/> To use indexing and slicing to access data in Python programs.<input type="checkbox"/> To define the structure and components of a Python program.<input type="checkbox"/> To write loops and decision statements in Python.<input type="checkbox"/> To write functions and pass arguments in Python.		

II BCA	BCA4DSC10	SOFTWARE ENGINEERING
Course Outcome : <ul style="list-style-type: none"><input type="checkbox"/> Knowledge of basic Software engineering methods and practices, and their appropriate application.<input type="checkbox"/> Describe software engineering layered technology and Process frame work.<input type="checkbox"/> A general understanding of software process models such as the waterfall and evolutionary models.<input type="checkbox"/> Understanding of software requirements and the SRS documents.<input type="checkbox"/> Understanding of the role of project management including planning, scheduling, risk management, etc.		

II BCA	BCA4DSC11	THE DESIGN AND ANALYSIS OF ALGORITHMS
Course Outcome :		

- Understand the basic notation for analyzing the performance of the algorithm.
- Use divide-and-conquer techniques for solving suitable problems.
- Use greedy approach to solve an appropriate problem for optimal solution.
- Apply dynamic programming approach to solve suitable problems
- Understand the limitations of algorithm power and study how to cope with the limitations of algorithm power for various problems

II BCA	BCA4DSC12	INTERNET TECHNOLOGIES
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Course Outcome :

- Analyze a web page and identify its elements and attributes.
- Create web pages using HTML and Cascading Style Sheets.
- Build dynamic web pages using JavaScript (Client side programming).

III BCA	BCA5DSC13	ARTIFICIAL INTELLIGENCE
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Course Outcome :

- 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.

III BCA	BCA5DSC14	DATA ANALYTICS
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Course Outcome :

- 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.

III BCA	BCA5DSC14	WEB PROGRAMMING
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Course Outcome :

- 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

III BCA	SEC5SB05B	Cyber Crimes, Cyber Laws and Intellectual Property Rights
Course Outcome :		
<input type="checkbox"/> Understand cyber crimes, their nature, legal remedies and as to how report the crimes through available platforms and procedures.		
<input type="checkbox"/> Recognize various privacy and security concerns on Social media and e-commerce platforms.		
<input type="checkbox"/> Use basic tools and technologies to protect their devices.		
<input type="checkbox"/> Understand digital environment and IPR issues.		

III BCA	BCA5DSC17	MACHINE LEARNING
Course Outcome :		
<input type="checkbox"/> Learn the basics of machine learning, understanding its uses, challenges, and various applications.		
<input type="checkbox"/> Build practical data skills, covering data collection, analysis, visualization, and preparation.		
<input type="checkbox"/> Become skilled in using classification and regression algorithms, including selecting, training, and evaluating models.		
<input type="checkbox"/> Dive into advanced clustering and specialized applications, using methods like K- Means, DBSCAN, and others.		

III BCA	BCA5DSC18	MOBILE APPLICATION DEVELOPMENT
Course Outcome :		
<input type="checkbox"/> Understand the basic concepts of Mobile application development.		
<input type="checkbox"/> Design and develop user interfaces for the Android platforms.		
<input type="checkbox"/> Apply Java programming concepts to Android application development and create an application using database		

III BCA	BCA6DSE01	OPERATIONS RESEARCH
Course Outcome :		
<input type="checkbox"/> Formulation of optimization model and applying appropriate optimization techniques for decision making.		
<input type="checkbox"/> Solve linear programming problems using appropriate optimization techniques.		
<input type="checkbox"/> Finding the optimal strategy for minimization of cost of shipping of products from source to destination.		
<input type="checkbox"/> Optimizing the allocation of resources to demand points in the best possible way.		

III BCA	BCA6DSE02	SOFTWARE TESTING
Course Outcome :		
<input type="checkbox"/> Understand the basic concepts of Mobile application development.		
<input type="checkbox"/> Design and develop user interfaces for the Android platforms.		
<input type="checkbox"/> Apply Java programming concepts to Android application development and create an application using database		



B.M.S. COLLEGE FOR WOMEN
Autonomous
Affiliated to Bengaluru City University
DEPARTMENT OF MICROBIOLOGY

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 gene expression in Prokaryotes and Eukaryotes.
2. Differentiate the process of replication, transcription, translation, regulation of gene expression in Prokaryotes 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

Radhika
10/01/2025
Head of the Department of Microbiology
B.M.S. College for Women
(Autonomous)
Basavanagudi, Bengaluru - 560 004

Course outcome

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

- CO1. Group animals on the basis of their morphological characteristics/structures.
- CO2. Demonstrate comprehensive identification abilities of Non-Chordate diversity
- CO3. Explain structural and functional diversity of Non-Chordates
- CO4. Develop the knowledge of economic animals.

Chordates and Comparative Anatomy Zoology: Course Outcomes (COs): After the completion of the course, the student will be able to: CO1. Demonstrate comprehensive identification abilities of chordate diversity

- CO2. Explain structural and functional diversity of chordate diversity
- CO3. Understand evolutionary relationship amongst chordates
- CO4. Take up research in biological sciences.
- CO5. Realize that very similar physiological mechanisms are used in very diverse organisms.
- CO6. Get a flavor of research by working on project besides improving their writing skills. It will further enable the students to think and interpret individually.

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

- CO1. Understand that by biological evolution we mean that many of the organisms that inhabit the earth today are different from those that inhabited it in the past.
- CO2. Understand that natural selection is one of several processes that can bring about evolution, although it can also promote stability rather than change.
- CO3. Understand how the single cell formed at fertilization forms an embryo and then a full adult organism.
- CO4. Integrate genetics, molecular biology, biochemistry, cell biology, anatomy and physiology during embryonic development.
- CO5. Understand a variety of interacting processes, which generate an organism's heterogeneous shapes, size, and structural features.
- CO6. Understand how a cell behaves in response to an autonomous determinant or an external signal, and the scientific reasoning exhibited in experimental life science.

Environmental Biology, Wildlife Management & Conservation: Course Outcomes (COs): After the successful completion of the course, the student will be able to:


- CO1. Develop an understanding of how animals interact with each other and their natural environment.

CO2. Develop the ability to use the fundamental principles of wildlife ecology to solve local, regional and national conservation and management issues.

CO3. Develop the ability to work collaborative team-based projects.

CO4. Gain an appreciation for the modern scope of scientific inquiry in the field of wildlife conservation management.

CO5. Develop an ability to analyze, present and interpret wildlife conservation Management information.


Head of the Department of Zoology
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Course outcomes: At the end of the course the student should be able to:

Life Cycle Nutrition

1. To understand the nutrition requirements of different age groups
2. To understand the guidelines of diet requirements
3. To determine nutrient requirements/needs of individuals at different stages of life.
4. To discuss the major nutrition-related concerns at each stage of life

DIETETICS I

1. Understand the concept of nutrient modifications in therapeutic diets.
2. Understand the principles of diet and nutrition in infections and fever.
3. Learn dietary requirements in therapeutic conditions.
4. Understand the concept and importance of Weight management

Nutritional Biochemistry

1. Understand the basics of Biomolecules – Macronutrients and micro-nutrients.
2. Role of biomolecules as nutrients and their requirement for physiological functions
3. Learn the biochemical mechanisms of nutrition and metabolism.
4. Understand the mechanism and carbohydrate metabolism and the interrelationship between metabolic pathways

Traditional Foods and Health

1. Understand the cultural, historical, and geographical significance of traditional diets in various communities.
2. Analyze the role of traditional foods in preventing lifestyle-related diseases like obesity, diabetes, and cardiovascular issues.
3. Recognize the sustainable practices associated with the production and preparation of traditional foods.

DIETETICS II

1. Learn the pathophysiology of gastrointestinal disorders and their dietary management.
2. Understand the pathophysiology of diabetes mellitus, dietary management, and treatment.
3. Learn the pathophysiology of Hypertension and Cardiovascular diseases and their dietary management.

Community Nutrition

1. Learn the concept of malnutrition and nutritional epidemiology.
2. Understand major nutritional problems prevalence, prevention, and control.
3. Understand policies and programs to combat community nutrition programs discussed in class.
4. Know the role of organizations working towards combating malnutrition.

Nutrition In Physical Activity

1. Learn how nutrition influences human development, exercise performance, recovery, and physiological adaptations
2. Understand macronutrient metabolism during and after exercise and outline the requirements of these nutrients for athletes
3. Understand the physiological functions of vitamins, minerals, and major nutrients in athletes.
4. Learn the composition of common sports drinks and ergogenic aids and discuss how these can be used appropriately and safely before, during, and after exercise.

- % of Syllabus Revision= 10-15%

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A. P. Singh

B.SC. CBZ/CBBT - BOTANY COURSE OUTCOMES

SI No.	Course Outcome
1	Critically evaluation of ideas and arguments by collection relevant information about the plants, so as recognize the position of plant in the broad classification and phylogenetic level.
2	Identify problems and independently propose solutions using creative approaches, acquired through interdisciplinary experiences, and a depth and breadth of knowledge/expertise in the field of Plant Identification.
3	Accurately interpretation of collected information and use taxonomical information to evaluate and formulate a position of plant in taxonomy
4	Students will be able to apply the scientific method to questions in botany by formulating testable hypotheses, collecting data that address these hypotheses, and analysing those data to assess the degree to which their scientific work supports their hypotheses.
5	Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
6	Students will be able to apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations.
7	Students will be able to identify the major groups of organisms with an emphasis on plants and be able to classify them within a phylogenetic framework. Students will be able to compare and contrast the characteristics of plants, algae, and fungi that differentiate them from each other and from other forms of life.
8	Students will be able to use the evidence of comparative biology to explain how the theory of evolution offers the only scientific explanation for the unity and diversity of life on earth. They will be able to use specific examples to explicate how descent with modification has shaped plant morphology, physiology, and life history.
9	Students will be able to explain how Plants function at the level of the gene, genome, cell, tissue, Flower development. Drawing upon this knowledge, they will be able to give specific examples of the physiological adaptations, development, reproduction and mode of life cycle followed by different forms of plants.
10	Students will be able to explain the ecological interconnectedness of life on earth by tracing energy and nutrient flow through the environment. They will be able to relate the physical features of the environment to the structure of populations, communities, and ecosystems.
11	Students will be able to demonstrate proficiency in the experimental techniques and methods of analysis appropriate for their area of specialization within biology.

Geetika

CHEMISTRY

DSC-5: Inorganic and Organic Chemistry

Contact Hours :56
Credit points: 04

Work load: 4 hours/week
Course Code: CHE05 DSC05

Evaluation: Continuous internal Assessment – 40 marks
Semester End Examination - 60 marks

COURSE OBJECTIVES

1. Concept of nomenclature of coordination compounds, geometries (e.g., octahedral, tetrahedral, square planar), and the factors that influence the geometry of coordination complexes by taking various examples.
2. Interface between coordination chemistry and other branches of chemistry and related fields, such as bioinorganic chemistry and organometallic chemistry.
3. understand the basic concepts of nuclear chemistry, Binding energies, nuclear model, decay law, radioactive series, artificial radioactivity, concept of nuclear fusion and fission, nuclear reactors and applications of radio isotopes in various fields.
4. Explore the manufacture of steel and surface treatment of steel, composition of different types of steel, ferrous and non ferrous alloys.
5. to study the reactivity of aldehydes and ketones with nucleophiles and reducing agents.
6. to know the structure and reaction of di and tricarboxylic acid and to study the various reaction of acid derivatives
7. To learn about the Synthesis of amines, basicity and reactivity of amines with nucleophiles, applications of BDC
8. to understand the concept of tautomerism, and study the preparation and applications of diethyl malonate and Ethyl acetoacetate
9. learn the mechanisms in different rearrangements – Meerwin, Beckmann, Hoffmann, Benzil, Favorski & Bayer Villiger

Course Specific outcomes

After the completion of the course, the student would be able to

1. name or write the structure, explain the geometry of any coordination compound. Predict its magnetic behaviour;
2. mention the hapticity of an organometallic , explain the structures of organometallics in various fields
3. explain how radioactive elements can be synthesized artificially , explain the working of atom and hydrogen bomb, working of a nuclear reactor in generation of electricity and able to explain the uses of radio isotopes in several fields.
4. explain the manufacture of steel, the different types of treatment steel can undergo, mention composition of various ferrous and non ferrous alloys.
5. explain the mechanism of the reactions undergone by carbonyl compounds.
6. explain the reaction undergone by di and tricarboxylic acid.
Will be able to explain the reaction and predict the products that will be formed by acid derivatives.
7. explain tautomerism with different examples and the applications of active methylene compounds in synthesis of various organic compounds.
8. able to explain the basic nature of amines, distinguish different amines based on Hinsberg test, learns the preparation of azo dyes
9. explain the mechanism in various rearrangement reactions.

Practical-V Semester DSC Lab-5: Inorganic Chemistry

Contact Hours :04

Credit points: 02

Work load: 4 hours/week

Course Code: CHE05 PRAC05

**Evaluation: Continuous internal Assessment – 25marks
Semester End Examination - 25 marks**

Course Objectives:

1. To impart knowledge of preparation of standard solutions.
2. Explain the difference in doing complexometric titrations
3. To impart knowledge how estimation of an element is carried out using ore samples or alloys
- 4 To learn the technique of preparation of complex.
5. To learn gravimetric estimation of an ion in a mixture of two metal ions.

Course Outcome:

After the completion of this semester, the student would be able to

- 1, know the importance of buffers in complexometric titrations
2. learns the difference between direct and back titration.
3. learns how the percentage of an element is determined in an ore sample
4. learns the technique of carrying out gravimetric analysis by different methods
5. learns how to prepare inorganic complexes, conditions to be taken care of.

Practical-V Semester DSC-Lab 6: Organic and Physical Chemistry

Contact Hours :04
Credit points: 02

Work load: 4 hours/week
Course Code: CHE05 PRAC06

Evaluation: Continuous internal Assessment – 25marks
Semester End Examination - 25 marks

COURSE OBJECTIVES

1. To learn one step preparation of an organic compound – benzaldehyde, coumarin, adipic acid, 2,4,6 tribromo aniline and 4-chlorotoluene based on different reactions.
2. To understand the mechanism involved in the preparation of the above mentioned compounds.
3. To recrystallize the prepared compound.
4. To learn to calculate the theoretical yield of the compound prepared.
5. To learn the determination of rate constant of methyl acetate using different concentration of acids
6. To study the influence of temperature on the acid hydrolysis of methyl acetate and to determine E_a .
7. To study transition temperature determination of salt hydrate.
8. To study the variation of viscosity with change in % of a solute.
9. To study about the solubility of benzoic acid.
10. To determine the composition of ferric salicylic acid complex.

Course Outcome:

1. Students will learn the mechanism of each one of the compounds prepared.
2. They will learn the importance of maintaining the conditions in preparation of organic compounds and how to obtain the best yield.
3. Students will learn to identify a solvent for recrystallization.
4. Students will learn how the factors such as concentration and temperature influences the rate of a reaction by determining the rate constants
5. Students will learn that temperature remains constant during phase transition of a salt hydrate.
6. Students will learn how the solubility of a known quantity of a substance changes With temperature.

**VI Semester
CHEMISTRY
DSC-7: Industrial Chemistry**

Contact Hours :56

Credit points: 04

Work load: 4 hours/week

Course Code: CHE06 DSC07

Evaluation: Continuous internal Assessment – 40 marks

Semester End Examination - 60 marks

COURSE OBJECTIVES :

The student will learn/gain /acquire knowledge

1. of the manufacturing and processing methods for various industrial materials, including the techniques used to shape, heat treat, and finish them
2. about the constituents of paints and varnishes.
3. about the different kinds of fuels, their characteristics, advantages, disadvantages and determination of calorific value.
4. about the types, classification and manufacture of a few fertilisers.
5. definition, properties, preparation and applications about newer materials like conducting polymers, fullerenes, nanomaterials and super conductors .
6. about the concept of free energy, spontaneity, derivation of Gibbs Helmholtz, Gibbs Duhem, Van't Hoff, reaction isotherm and isochore, Clausius Clayperon equation,, solve problems and third law of thermodynamics
7. about the optical methods of analysis like AAA and AES
8. dipole moment, electrical properties of solids, types of solids, definition and examples of pyro, piezo, ferro inverse piezo electricity. Thomson, Seebeck and Peltier effect.
9. about some of the electroanalytical methods like voltammetry, cyclic voltammetry and thermal methods of analysis

COURSE OUTCOME :

The students will be able to explain

1. the manufacturing and processing methods of various industrial materials
2. constituents of different paints
3. different categories of fuels along with determination of calorific value
4. different types of fertilisers and also how to industrially manufacture them.
5. the preparation and properties of several newer materials like conducting polymers, fullerenes, nano materials ...
6. several thermodynamic concepts related to II and III law of thermodynamics
7. AAA and AES methods of analysis
8. physical and electrical properties of molecules- dipole moment, Pyro, ferro electricity etc.,
- 9 quantitative instrumental analysis – voltammetry, cyclic voltammetry and TMA

Practical-VI Semester

DSC-Lab 7: Physical Chemistry

Contact Hours :04
Credit points: 02

Work load: 4 hours/week
Course Code: CHE06 PRAC07

Evaluation: Continuous internal Assessment – 25marks
Semester End Examination - 25 marks

COURSE OBJECTIVES:

To study / learn

1. the influence of a salt on phenol water system and to determine the percentage composition of the given salt solution.
2. to determine the endpoint of a redox reaction using emf values.
3. to determine the endpoint of a weak acid and weak base titration using quinhydrone electrode.
4. to determine the endpoint of weak acid/acid mixture/acid and salt against a base conductometrically.
5. to determine the isoelectric point of an amino acid by pH method.

COURSE OUTCOME:

The student will

1. learn how the presence of an impurity will affect the miscibility temperature of a dilute phenol solution
2. understand the importance of instrumental methods for quantitative estimation of a chemical substance.
3. learn to determine the endpoint of a titration by drawing graphs

**VI Semester
CHEMISTRY
DSC-8: Organic Chemistry and Spectroscopy**

**Contact Hours :56
Credit points: 04**

**Work load: 4 hours/week
Course Code: CHE06 DSC08**

**Evaluation: Continuous internal Assessment – 40 marks
Semester End Examination - 60 marks**

COURSE OBJECTIVES:

The student will learn/gain /acquire knowledge

1. Recognize and classify heterocyclic compounds , aromaticity of 5 and 6 membered ring compound, basicity and its comparison; synthesis and reactivity; structures of indole, purine and pyrimidine
2. Organic and inorganic polymers; types of polymerization ; molecular weight; preparation and structure and uses of a few polymers ; Biodegradable polymers
3. Classification and synthesis of drugs
4. Principles of green chemistry and synthesis of ibuprofen
5. about the structure, chemistry and functions of biomolecules like lipids, amino acids and proteins
6. the basic characteristics of enzyme and its classification, mechanism enzyme action, enzyme kinetics, enzyme inhibition and co-enzyme
7. study about chemistry of natural products like carbohydrates, terpenes, terpenoids, alkaloids and vitamins
8. of various spectroscopic techniques, including UV-Vis, IR, NMR, and their applications in organic compound analysis

COURSE OUTCOME:

The students will be able to explain

1. The various classes of heterocyclics, predict which is more aromatic and basic, write structures, and mention the synthesis method.
2. the different classes of polymers, polymerization, write the structure and give method of preparation of a few polymers along with their uses.
3. the different classes of drugs with examples and also give methods of synthesis of drugs.
4. the twelve principles of green chemistry
5. the structure, chemistry and functions of lipids, amino acids and proteins
6. the basic characteristics of enzymes along with their classification, mechanism of enzyme reaction, kinetics involved I and enzyme inhibition.
7. classify carbohydrates, write the structures of aldohexoses, ketoses and disaccharides; explain epimers, mechanism of mutarotation, glycosidic bond; structural elucidation of glucose classification and uses of terpenes; structural elucidation of citral
8. UV spectroscopy, calculation of λ_{max} , graphical representation of nicotine classification, characteristics and uses of alkaloids; structural elucidation of citral print region and group frequency.
Principle conditions for a compound to be IR Active, stretching frequency, finger Principle of PMR, chemical shift, shielding and deshielding, equivalent and nonequivalent protons and NMR Spectra

Practical-VI Semester DSC-Lab 8: Organic Chemistry

**Contact Hours :04
hours/week**

Work load: 4

**Credit points: 02
PRAC08**

Course Code: CHE06

**Evaluation: Continuous internal Assessment – 25marks
Semester End Examination - 25 marks**

COURSE OBJECTIVES:

To learn / carry out

1. to identify two functional groups in an organic compound systematically.
2. to determine the amount of amino acid in a solution by titrimetric method.
3. to determine the amount of glucose by Fehling's method.
4. to estimate the amount of phenol
5. to estimate the amount of a keto group in an organic compound.
6. to estimate the iodine value of an oil by chloramine T method.
7. qualitative tests to identify a carbohydrate in a given solution.
8. tests to identify a protein in a given solution.
9. To learn the preparation of an organic compound such as 2,4 dinitro phenyl hydrazine,
anthranilic acid, benzanilide and benzilic acid.

COURSE OUTCOME:

The student will learn

1. to identify the special element in an organic compound.
2. to identify two functional groups in an organic compound by carrying out suitable tests systematically.
3. to estimate the amount of glucose / keto / phenol quantitatively.
4. to identify whether the given solution contains a carbohydrate or protein by carrying out suitable qualitative tests.
5. the preparation of an organic compound involving two steps, the perfect conditions to be maintained to obtain a good yield.

Course outcome

Course Outcomes (COs) of V sem:

- Inertial and non-inertial frames of reference.
- Apply the Lorentz transformations to transform velocities in special relativity.
- Calculate the relativistic Doppler effect.
- Limitations of classical physics.
- Physical significance of wave function: expectation values and probability.
- Understanding uncertainty relation.
- Examples of exactly solvable potentials.
- Importance of commutation relations.

Course Outcomes (COs) of VI sem:

- Description of atomic properties using basic atomic models.
 - Interpretation of atomic spectra of elements using vector atom model.
 - Interpretation of molecular spectra of compounds using basics of molecular physics.
- Explanation of laser systems and their applications in various fields.

Course outcome

Course Outcomes (COs) of V sem:

- Inertial and non-inertial frames of reference.
- Apply the Lorentz transformations to transform velocities in special relativity.
- Calculate the relativistic Doppler effect.
- Limitations of classical physics.
- Physical significance of wave function: expectation values and probability.
- Understanding uncertainty relation.
- Examples of exactly solvable potentials.
- Importance of commutation relations.

Course Outcomes (COs) of VI sem:

- Description of atomic properties using basic atomic models.
 - Interpretation of atomic spectra of elements using vector atom model.
 - Interpretation of molecular spectra of compounds using basics of molecular physics.
- Explanation of laser systems and their applications in various fields.

COURSE OUTCOME

5th semester BBA

Name of the Course: PRODUCTION & OPERATIONS MANAGEMENT

- Course Outcomes:** On successful completion of the course, the students will be able to-
- Understand ever growing importance of Production and Operations Management in an uncertain business environment.
 - Gain an in-depth understanding of Plant Location and Layout
 - Appreciate the unique challenges faced by firms in Inventory Management.
 - Understand the subject of Production Planning and Control.
- Develop skills to operate competitively in the current business scenario.

Name of the Course: INCOME TAX - I

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

- understand the concepts of Income tax.
 - understand exempted incomes in income tax
 - Understand the provisions for determining the residential status of an Individual.
 - Comprehend the meaning of Salary, Perquisites, Profit in lieu of salary, allowances and various retirement benefits.
- Compute the income house property for different categories of house property.

Name of the Course: BANKING LAW & PRACTICE

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

- Understand the legal aspects of banker and customer relationship.
 - Open the different types of accounts.
 - Describe the various operations of banks.
 - Understand the different types of crossing of cheques and endorsement.
- Understanding of different types of E-payments.

5th semester BBA

Name of the Course: Advanced Corporate Financial Management (Finance Specialization)

- Course Outcomes:** On successful completion of the course, the students will be able to:
- Understand and determine the overall cost of capital.
 - Comprehend the different advanced capital budgeting techniques.
 - Understand the importance of dividend decisions and dividend theories.
 - Understand current asset management.

Name of the Course: Consumer Behaviour and Market Research
(Marketing Specialization)

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

- a) Understanding of Consumer Behavior towards products, brands, and services.
- b) Establish the relevance of consumer behavior theories and concepts to marketing decisions.
- c) Implement appropriate combinations of theories and concepts.
- d) Understanding of market research process
- e) Understanding of Data Analysis and reporting in market research.

Name of the Course: Human Resource Development and Leadership
(Human Resource Specialization)

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

- a) Understand the need of HRD.
- b) Understand the different training methods.
- c) Understand the models for evaluating the HRD.
- d) Analyse different leadership styles, types, patterns and functions.
- e) Demonstrate an understanding of various leadership approaches for effective management of people.

Name of the Course: Fundamentals of Supply Chain Management
(Supply chain management specialization)

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

- a) Understand the fundamentals of Supply Chain Management along with its trends and challenges.
 - b) Analyse the foundational role of Logistics and its relationship with Supply chain management.
 - c) Gain the knowledge about wide range of factors of demand management that have an impact on customer demand & supply chain management.
 - d) Awareness about the role & application of various types of production activities in business.
 - e) Comprehend the relationship between competitive strategies and supply chain strategies.
 - f) Understand the best practices in SCM
-

Name of the Course: Information Technology For Business
(Vocational Course)

Course Outcomes: On successful completion Student will demonstrate;

- a) Understand the fundamentals of Information technology & Information System
- b) Understand the various subsystems of information System & its usage in business.
- c) Learn core concepts of Database Management systems.
- d) Learn as to how does an MS Access will provide a better solution to manage data rather in spreadsheets.
- e) Understanding the application & usage of MS Excel in Business.
- f) Provide Awareness about latest trends in IT.

Name of the Course: DIGITAL MARKETING
(Vocational Course)

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

- a) Gain knowledge on Digital Marketing, Email marketing and Content marketing.
 - b) Understand Search Engine Optimization tools and techniques
 - c) Gain skills on creation of Google AdWords & Google AdSense
 - d) Gain knowledge on Social Media Marketing and Web Analytics.
 - e) Gain knowledge on YouTube Advertising & Conversions.
-

6th SEMESTER

Name of the Course: Business Law

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

- 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 Negotiable Instrument Act and its provisions relating to Cheque and other Negotiable Instruments.
- d) Understand the significance of Consumer Protection Act and its features.
- e) Understand the need for Environment Protection.

Name of the Course: Income Tax – II

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

- a) Understand the procedure for computation of income from business and other Profession.
- b) Ability to compute capital gains.
- c) Compute the income from other sources.
- d) Demonstrate the computation of total income of an Individual.
- e) Comprehend the assessment procedure and to know the power of income tax authorities.

Name of the Course: International Business

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

- a) Understand the concept of International Business.
- b) Differentiate the Internal and External International Business Environment.
- c) Understand the difference between MNC and TNC
- d) Understand the role of International Organisations in International Business.
- e) Understand International Operations Management.

Name of the Course: Security Analysis and Portfolio Management

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

- a) Understand the concept of basics of Investment.
- b) Evaluate the different types of investment alternatives.
- c) Understand the concept of risk and returns.
- d) Understand fundamental and technical analysis.
- e) Evaluate portfolio and portfolio management.

Name of the Course: Advertising and Media Management
(Marketing Specialization)

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

- a) Understand the nature, role, and importance of IMC in marketing strategy
- b) Understand effective design and implementation of advertising strategies
- c) Present a general understanding of content, structure, and appeal of advertisements.
- d) Understand ethical challenges related to responsible advertising and brand strategy management.
- e) Evaluate the effectiveness of advertising and agencies role.

Name of the Course: Compensation and Performance Management
(Human Resource Management Specialisation)

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

- a) Understand the concepts of Compensation management.
- b) Describe job evaluation and its methods.
- c) Evaluate the different methods of wages.
- d) Describe performance management and methods of performance management.
- e) Preparation of Payroll.

Name of the Course: Logistics Management
(Supply Chain Management Specialisation)

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

- a) Understand the fundamental aspects & role of logistics in Supply Chain Management.
- b) Comprehend the various elements of logistics management.
- c) Analyse the functionality and utility of inventory thereby managing the uncertainties using inventory control methods.
- d) Understand the various aspects of transportation management.
- e) Able to explain the concept of warehouse and storage activities and its importance in the Supply Chain.
- f) Understand the role of packaging in material handling with reference to environmental protection.

Name of the Course: GOODS AND SERVICES TAX
(Vocational Course)

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

- a) Comprehend the concepts of Goods and Services tax.
- b) Understand the fundamentals of GST.
- c) Analyse the GST Procedures in the Business.
- d) Know the GST Assessment and its computation.

Name of the Course: Event Management
(Vocational Course)

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

- a) Understand the significance, scope & decisions related to various events
- b) Demonstrate the ability to organize the event.
- c) Demonstrate the ability to conduct the event & understand the right communication channel to be used for various events.
- d) Prepare the budget required for conducting an event & report on event success.
- e) Enable them to successfully execute the corporate events & hence undertake entry level jobs in event management organizations.

BA English
Semester V Course: 9
Title of the Course: Life Narratives

Course Objectives:

- To develop a comprehensive understanding of life narratives, including autobiographies, memoirs, diaries, biographies, and biopics, and recognise their significance in shaping individual and collective identities.
- To explore the diverse genres of life writings, analysing their unique characteristics, narrative styles, and cultural contexts.
- To develop critical thinking skills to analyse life narratives critically, evaluating the author's perspective, socio-cultural influences, and the impact of the narrative on the audience.
- To enhance media literacy skills by critically evaluating biographical films (biopics), understanding their adaptation from written narratives, and comparing the artistic representation with the original source material.

Course Outcomes:

- Students will acquire in-depth knowledge about various forms of life narratives, including autobiographies, memoirs, diaries, biographies, and biopics, and their role in reflecting social, cultural, and historical contexts.
- Students will develop analytical skills to critically analyze life narratives, identifying themes, narrative techniques, and the socio-cultural factors influencing the author's perspective.
- Will enhance verbal and written communication skills through class discussions, presentations, and analytical essays, enabling students to articulate their analyses of life narratives effectively.
- Will develop proficiency in media literacy by critically evaluating biopics in comparison to their source materials, understanding the impact of visual storytelling, and analyzing the artistic choices made in film adaptations
- Will foster critical thinking skills by engaging with complex themes and interpretations within life narratives, encouraging students to question assumptions, challenge stereotypes, and develop well-supported arguments

Course	A12
Type of Course	DSC
Theory/ Practical	Theory
Credits	4
Instruction hours per week	4
Total No. of Lectures/Hours Semester	60
Duration of Exam	2 ½ hours
Formative Assessment Marks	40
Summative Assessment Marks	60
Total Marks	100

B.A. English
Semester V Course – A 10
Title of the Course: Gender Studies Part: II- Women's Writing

Course Objectives:

- To explore the evolution of women's writing from ancient civilizations to the contemporary era.
- To understand the social, cultural, and historical contexts that influenced women writers and their works.
- To develop critical thinking skills in analysing literary texts, including poetry, short stories, essays, and novels.
- To examine traditional gender roles and stereotypes as depicted in literature.
- To recognize the intersectionality of gender with race, class, ethnicity, and other social factors in women's writing.
- To empower students, particularly women, by exposing them to strong and diverse female voices in literature.

Course Outcomes:

- Students will be able to analyse and interpret various forms of women's writing, including poetry, essays, short stories, and novels.
- Will demonstrate an understanding of literary techniques, themes, and symbolism used by women authors.
- Will critically assess the societal and cultural implications of the texts, considering diverse perspectives
- Will demonstrate awareness of the diversity of women's experiences across cultures and historical periods.
- Will be encouraged to express their own thoughts and perspectives on gender issues, both orally and in writing.
- Will recognize the importance of literature as a tool for advocacy and social change, promoting gender equality and inclusivity.

Course A 10: Women's Writing	
Course	A 10
Type of Course	DSC
Theory/ Practical	Theory
Credits	4
Instruction hours per week	4
Total No. of Lectures/Hours Semester	60
Duration of Exam	2 ½ hours
Formative Assessment Marks	40
Summative Assessment Marks	60
Total Marks	100

Name of the Program: Bachelor of Commerce (B.Com.)		
Course Code: COM.5.1		
Name of the Course: Financial Management		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs.	56 Hrs.
Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminar & field work etc.,		
Course Outcomes: On successful completion of the course, the students will be able to		
<ul style="list-style-type: none"> a) Understand the Role of Financial Managers effectively in an organization. b) Apply the compounding & discounting techniques for time value of money. c) Take investment decision with appropriate capital budgeting techniques for investment proposals. d) Understand the factors influencing the capital structure of an organization. e) Understand the factors influencing the working capital requirements of an organization 		

Name of the Program: Bachelor of Commerce (B.Com.)		
Course Code: COM 5.2		
Name of the Course: Income Tax Law and Practice – I		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	56 Hrs
Pedagogy: Classroom lectures, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		
Course Outcomes: On successful completion of the course, the students will be able to		
<ul style="list-style-type: none"> a) Understand the basic concepts of Income Tax as per Income Tax Act 1961. b) Understand the provisions for determining the residential status of an Individual. c) Comprehend the meaning of Salary, Perquisites, allowances and Profit in lieu of salary, and various retirement benefits. d) Compute the income house property for different categories of house property. e) Comprehend the assessment procedure and to know the power of income tax authorities. 		

Name of the Program: Bachelor of Commerce (B.Com.)		
Course Code: COM 5.3		
Name of the Course: Principles and Practice of Auditing		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	56 Hrs
Pedagogy: Classroom lectures, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		

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

- a) Understand the conceptual framework of auditing.
- b) Examine the Internal control System and its objectives.
- c) Understand the Vouching procedure for various items of receipts and payments
- d) Examine the Audit procedure involved in the verification and valuation of different items of Assets and Liabilities
- e) Gain knowledge on the aspect of Audit Reporting
- f) Understand the qualities of an Auditor and appointment procedure involved.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM A1

Name of the Course: Advanced Accounting

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminar & field work etc.,

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

- a) Understand the key principles and theories of Advanced Accounting.
- b) Learn various valuation methods and techniques used in practice.
- c) Develop skills in Advanced Accounting.
- d) Explore the challenges and considerations involved in preparation of financial statements of Banking & Insurance companies.
- e) Gain knowledge of Advanced Accounting and their impact on business.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM F1

Name of the Course: Financial Institutions and Markets

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Group discussion, Seminar & field work etc.,

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

- a) Understand the structure of Indian financial system and its constituents.
- b) Outline the role of capital and money market in economic development.
- c) Comprehend primary and secondary market and its relevance in capital formation.
- d) Appraise the role played by banking and development financial institutions in economic development so far.
- e) Understand the different types of NBFCs and their contribution.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM M1

Name of the Course: Consumer Behavior and Market Research

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Group discussion, Seminar & field work etc.,

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

- Understanding of Consumer Behavior towards products, brands and services.
- Establish the relevance of consumer behavior theories and concepts to marketing decisions.
- Implement appropriate combinations of theories and concepts.
- Understanding of market research process
- Understanding of Data Analysis and reporting in market research.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM HR 1

Name of the Course: Human Resources Management

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs	56 Hrs

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminar & fieldwork etc.,

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

- Describe the role and responsibility of Human resources management functions on business
- Describe HRP, Recruitment and Selection process
- Describe the process of Job Analysis.
- Describe to induction, training, and compensation aspects.
- Explain performance appraisal and its process.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM. BD 1

Name of the Course: Business Analytics

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminars & field work etc.,

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

- Analyze and model financial data.
- Access the different open-source domains.
- Evaluate and build model on time series data.
- Understand tools used in statistical analysis.

Name of the Program: Bachelor of Commerce (B.Com)

Course Code: COM 5.6 (a) (Vocational Course-1)

Name of the Course: GST - LAW & PRACTICE

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminar & fieldwork etc.,

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

- Comprehend the concepts of Goods and Services tax.
- Understand the fundamentals of GST.
- Understand the GST Registration Process.
- Analyze the GST Procedures in Business.
- Know the GST Assessment and its computation.

Name of the Program: Bachelor of Commerce (B. Com)

Course Code: 5.6 (b) (Vocational Course-1)

Name Of The Course: DIGITAL MARKETING

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Group Discussion, Seminar, Case Studies and Field Work etc.

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

- Gain knowledge on Digital Marketing, Email marketing and Content marketing
- Understand Search Engine Optimization tools and techniques
- Gain skills on creation of Google AdWords & Google AdSense
- Gain knowledge on Social Media Marketing and Web Analytics
- Gain knowledge on YouTube Advertising & Conversions.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM 5.7

Name of the Course: Employability Skills

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	3 Hrs	45 Hrs

Pedagogy: Classrooms lecture, Case studies, Group discussion, Seminar & field work etc.,

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

- Solve the problems on quantitative aptitude, logical reasoning and analytical ability.
- Exhibit the communication and leadership skills.
- Face interviews and write resumes
- Conduct self SWOC analysis and set his career goals.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM 6.1

Name of the Course: Management Accounting

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminar & fieldwork etc.,

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

- Demonstrate the significance of management accounting in decision making.
- Analyze and interpret the corporate financial statements by using various techniques.
- Compare the financial performance of corporate through ratio analysis.
- Understand the latest provisions in preparing cash flow statement.
- Understand the concepts of Budgetary Control.

Name of the Program: Bachelor of Commerce (B.Com.) Course Code: COM 6.2 Name of the Course: Income Tax Law & Practice – II		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	56 Hrs
Pedagogy: Classroom lectures, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		
Course Outcomes: On successful completion of the course, the students will be able to		
<ul style="list-style-type: none"> a) Understand the procedure for computation of income from business and other Profession. b) Understand the provisions for computation of capital gains. c) Learn to compute the taxable income from other sources. d) Learn the computation of total income of an Individual. e) Understand the provisions relating to Set Off and Carry Forward of Losses 		

Name of the Program: Bachelor of Commerce (B.Com.) Course Code: COM 6.3 Name of the Course: Advanced Financial Management		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	56 Hrs
Pedagogy: Classroom lectures, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		
Course Outcomes: On successful completion of the course, the students will be able to		
<ul style="list-style-type: none"> a) Understand Weighted Average Cost of Capital and its significance b) Comprehend the different advanced capital budgeting techniques. c) Understand different capital structure theories and its application in financing decisions. d) Evaluate different dividend decisions and its impact on the security valuation. e) Understand the important components of Working capital and its management. 		

Name of the Program: Bachelor of Commerce (B.Com.) Course Code: COM A2 Name of the Course: Indian Accounting Standards		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs	56 Hrs
Pedagogy: Classroom lectures, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		
Course Outcomes: On successful completion of the course, the students' will be able to		
<ul style="list-style-type: none"> a) Understand the need and benefits of accounting standards. b) Prepare the financial statements as Indian Accounting standards. c) Comprehend the requirements of Indian Accounting Standards for recognition, measurement and disclosures of certain items appear in financial statements d) Understand the Accounting Standards for Items that do not Appear in Financial Statements e) Understand the preparation of calculation of NCI & Cost of control 		

Name of the Program: Bachelor of Commerce (B.Com.)		
Course Code: COM F2		
Name of the Course: Investment Management		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs.	56 Hrs.
Pedagogy: Classroom lectures, Case studies, Tutorial classes, Group discussion, Seminar & field work etc.,		
Course Outcomes: On successful completion of the course, the students' will be able to		
a) Understand the concept of investments and various investments avenues available.		
b) Comprehend the functioning of secondary market in India.		
c) Underline the concept of risk and return and their relevance in trading in securities.		
d) Illustrate the valuation of securities and finding out the values for trading in securities.		
e) Demonstrate the fundamental analysis and technical analysis for trading in shares in the share market.		

Name of the Program: Bachelor of Commerce (B.Com.)		
Course Code: COM. M2		
Name of the Course: Customer Relationship Management		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs	56 Hrs
Pedagogy: Class room lectures, Case studies, Tutorial Classes, Group discussion, Seminar & field work etc.,		
Course Outcomes: On successful completion of the course, the students will be able:		
a) To be aware of the concept of customer relationship.		
b) To analyze the CRM link with the other aspects of marketing.		
c) To impart the basic knowledge of the Role of CRM in increasing the sales of the company.		
d) To make the students aware of the different CRM models in service industry.		
e) To make the students aware and analyze the different issues in CRM		

Name of the Program: Bachelor of Commerce (B.Com.)		
Course Code: COM HR-2		
Name of the Course: Human Resources Development		
Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs	56 Hrs
Pedagogy: Class room lectures, Case studies, Group discussion, Seminar & field work etc.,		

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

- a) Understand the need of HRD.
- b) Comprehend the framework of HRD.
- c) Know the models for evaluating the HRD programs.
- d) Comprehend the need for employee counseling.
- e) Apprehend the HR performance.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM. BD 2

Name of the Course: Business Analytics – II

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
3 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminars & field work etc.,

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

- a) Understand the evolution of HR analytics and its significance in modern organizations.
- b) Evaluate the reliability and validity of selection models used in recruitment.
- c) Recognize the characteristics, sources, and value of big data in marketing analytics.
- d) Evaluate the financial health of an organization by considering liquidity, leverage, and profitability.
- e) Understand the sources and types of financial data used in modeling.

Name of the Program: Bachelor of Commerce (B.Com.)

Course Code: COM 6.6 (a) (Vocational Course-2)

Name of the Course: Assessment of Persons other than Individuals and Filing of ITRs

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminar & field work etc.,

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

- a) Understand the calculation of Depreciation
- b) Comprehend the assessment of partnership Firms and determine the tax liability.
- c) Comprehend the assessment of corporate entities and determine the tax liability.
- d) Understand the rate of TDS for different sources of income.
- e) Understand the procedure of filing ITR's

Name of the Program: Bachelor of Commerce (B.Com)

Course Code: COM 6.6 (b) (Vocational Course-2)

Name of the Course: E-Commerce

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs.	56 Hrs.

Pedagogy: Classroom lectures, Case studies, Tutorial Classes, Group discussion, Seminar & fieldwork etc.,

MATICT01: Algebra-I Calculus-I and Geometry

Course Learning Outcomes:

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

1. solve the system of homogeneous and non-homogeneous linear system of 'm' equations in 'n' variables by using concept of rank of matrix.
2. find eigenvalues and eigenvectors.
3. find nth derivatives of some standard functions.
4. solve problems on partial differentiation, Jacobians and related properties.
5. find the reduction formulae and apply Leibnitz Rule.
6. identify geometrical aspects of planes and sphere in 3D.

MAT1CP01: Algebra-I Calculus-I and Geometry

Course Learning Outcomes:

This course will enable the students to Learn, fundamentals and implement the python programming language, and will enable to:

1. learn fundamentals of python
2. solve problem on algebra and calculus
3. acquire knowledge of applications of algebra and calculus
4. solve problems related to analytical geometry

MAT2CT02: Algebra-II, Calculus-II & Differential Equations

The overall expectation from this course is that the student builds a basic understanding on Algebra, Calculus and Differential Equations. The broader course outcomes are listed as follows. At the end of this course, the student will be able to understand:

1. the mathematical structure called Groups.
2. the fundamental concepts of limits, continuity and differentiability
3. identify and apply the intermediate value theorem and L' Hospital's rule.
4. interpret the geometric and physical meaning of derivatives.
5. problems related to angle between radius vector and tangent, angle between two curves.
6. express the curves in pedal form, derivative of an arc in different forms.
7. center of curvature, asymptotes, evolutes and envelopes of the given curve.
8. To find solutions for first order and first degree ordinary differential equations.
9. To find solutions for first order and higher degree ordinary differential equations.

MAT2CP02: Algebra-II, Calculus-II & Differential Equations

Course Learning Outcomes: This course will enable the students to write python code to:

1. solve problems on algebra and calculus.
2. acquire knowledge of applications of algebra and calculus
3. plot the curves in different forms

Course Code: BVRM5DSC14

Name of the Course: Income Tax – I

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

- a) Understand the framework of income tax as well scheme of taxation.
- b) Understand different exempted incomes u/s 10.
- c) Determine the residential status of individual.
- d) Ability to solve the practical problems on income from salary.
- e) Ability to solve the practical problems on income from House Property.

Course Code: BVRM5DSC15

Name of the Course: Financial Management

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

- a) Demonstrate the applicability of the concept of Financial Management
- b) Understand the managerial Decisions and Corporate Capital Structure
- c) Apply the Leverage and EBIT, EPS Analysis associate with Financial Data in the corporate
- d) Analyse the complexities associated with management of cost of funds in the capital Structure
- e) Develop and evaluate alternate managerial decisions and identify optimal solution

Course Code: BVRM5VOC01

Name of the Course: Goods and Service Tax

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

- a) Understand the basics of taxation.
- b) Understand the basic frameworks of goods and service tax.
- c) Compute problems on value and time of supply.
- d) Compute input tax credit and net GST liability.
- e) Understand the concept of GST Procedures.

Course Code: BVRM5SECSB

Name of the Course: EMPLOYABILITY SKILLS

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

- a) Solve the problems on quantitative aptitude, logical reasoning and analytical ability.
- b) Exhibit the communication and leadership skills.
- c) Face interviews and write resumes
- d) Conduct self SWOC analysis and set his career goals.

Course Code: BVRM5DSE02

Name of the Course: Performance Management

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

- a) Explain the concept of Performance management and Link of Performance Management to other HR Processes.
- b) Understand Performance Management Planning Process.
- c) Understand the Mechanics of Performance Management Planning And Documentation
- d) Understand and analyse different performance appraisal methods.
- e) Understand the issues and challenges in performance management.

Semester - VI

Course Code: BVRM6DSC17

Name of the Course: Income Tax –II

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

- a) Solve the practical problems on income from Profits and Gains from Business or Profession.
- b) Solve the practical problems on income from Capital Gains.
- c) Solve the practical problems on income from Income from Other Sources.
- d) Understand the concept and provisions related to Set-Off and Carry Forward of Losses.
- e) Solve the practical problems on Total Income and Tax Liability of an Individual Assessee.

Course Code: BVRM6DSC16

Name of the Course: Store Display and Visual Merchandising

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

- a. Understand in-depth understanding of store design and display.
- b. Understand store image, security and managing communication.
- c. Manage visual merchandising efficiently
- d. Understand different aspects of visual merchandising.
- e. Analyse the growth and future of visual merchandising.

Course Code: BVRM6DSC18

Name of the Course: Legal Aspects of Business

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

- a) Explain the concepts in business laws with respect to foreign trade.
- b) Understand rights and duties under various legal Acts.
- c) Understand various modes of dispute resolution in business transactions.
- d) Explain the basic elements of forming an enforceable contract and agreement.

e) Understand various aspects of Environment and cyber Law.

Course Code: BVRM6VOC02

Name of the Course: Retail Stores Operation

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

- a. Understand the basic concept of retailing
- b. Understand the concept of retail stores.
- c. Understand the concept of design and display.
- d. Build knowledge on franchising concept
- e. Understand the Concept of Mall Management.

Course Code: BVRM5DSE01

Name of the Course: Packing and Supply Chain Management

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

- a) Understand the concept of packing and packaging
- b) Overview different types of packaging
- c) Understand the conceptual Framework of Supply Chain Management.
- d) Understand tools of Supply Chain Performance Measurement and strategic alliance
- e) Understand the benefit of outsourcing and e procurement.

Course Code: BVRM6DSE03

Name of the Course: E – Commerce

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

- a) Understand key concepts relating to e-commerce
- b) Understand Consumer Oriented E-Commerce
- c) Understand Different Electronic Payment System
- d) Understand EDI Legal, Security & privacy issues
- e) Understand E-Commerce Technology

Course Code: BVRM6DSE04

Name of the Course: Employee Welfare and Social Security

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

- a) Acquire knowledge on Labour Welfare, Administration & Social Security.
- b) Understand Indian Labour Organisations and their functioning
- c) Meaning and functioning of collective bargaining

PG DEPARTMENT OF CHEMISTRY
SEMESTER – I
MCHE-101 INORGANIC CHEMISTRY-I

52hr

COURSE LEARNING OUTCOME

- CO1:** Enable the students to learn VSEPR theory, types of chemical bonding, Molecular Orbital theory & to calculate the percentage of ionic and covalent character of molecules
- CO2:** To understand the chemistry of silicates and its classifications, structure and bonding in inorganic compounds & calculation of STYX code of higher inorganic compounds
- CO3:** Able to understand the reasons for the relative strengths of acids and bases, to explain structure & properties of Isopoly and Heteropoly acids & to learn bonding in Metal clusters
- CO4:** To understand the synthesis, classification and applications of nanomaterials. To know the basic knowledge of Nuclear Chemistry

MCHE-102 ORGANIC CHEMISTRY-I

52hr

COURSE LEARNING OUTCOME:

- CO1:** Enable the students to learn the bonding in organic systems, various aspects of aromaticity, electronic effects, acidity and basicity of organic compounds.
- CO2:** To gain knowledge on methods of determination of reaction mechanism, various reaction intermediates and aliphatic nucleophilic substitution reactions.
- CO3:** To understand the detailed aspects of optical and geometrical isomerism.
- CO4:** To gain knowledge on carbohydrates and heterocyclic compounds

MCHE-103 PHYSICAL CHEMISTRY- I

52hr

COURSE LEARNING OUTCOME:

- CO1:** To understand the various aspects of classical thermodynamics and statistical thermodynamics in terms of their difference and application
- CO2:** To study the basics of irreversible thermodynamics and their various relations.
- CO3:** To understand the concept of reaction rates and identify the reaction order for a chemical change
- CO4:** To understand the basics of quantum mechanics and compare the difference between classical and quantum world.

MCHE-104 ANALYTICAL CHEMISTRY

52hr

COURSE LEARNING OUTCOME:

- CO1:** Enables students to learn fundamentals of analytical chemistry and steps of a characteristic analysis.
- CO2:** To compare qualitative and quantitative analyses & Importance of photometric titrations
- CO3:** Achieve advanced knowledge about the interactions of electromagnetic radiation and matter and their applications in spectroscopy.
- CO4:** To understand working principle & applications of Chromatographic techniques in chemical analysis.

MCHE-105 MATHEMATICS FOR CHEMISTS (SOFT CORE)

36hr

COURSE LEARNING OUTCOME:

- CO1:** To study the basics of vectors, Eigen values and Eigen vectors
- CO2:** Students will learn about various Applications of differentiation with diverse examples.
- CO3:** To understanding Elementary differential equation and Fourier series

Practical Papers for I Semester

MCHE -106 INORGANIC CHEMISTRY PRACTICAL-I

60hr

COURSE LEARNING OUTCOME:

- CO1:** To develop skills in quantitative analysis and preparing inorganic complexes
- CO2:** Semimicro Qualitative Analysis of Inorganic salt mixture containing 3 cations and 2 anions (one less common metal ions like W, Mo, V, Zr, Ce and Li to be included among anions organic acid radicals, phosphate, borate and fluoride separation included).

MCHE -107 INORGANIC CHEMISTRY PRACTICAL-II

60hr

COURSE LEARNING OUTCOME:

- CO1:** Prepare a various inorganic complexes and to determine its percentage purity.
- CO2:** To understand principle chemistry behind complex preparation

MCHE-108 PHYSICAL CHEMISTRY PRACTICALS-I 60hr

COURSE LEARNING OUTCOME:

- CO1:** Experiments have been designed which make use of the concepts of electrochemistry, Thermodynamics, solution chemistry and surface chemistry.
- CO2:** To apply the concept of kinetics and thermodynamics to various chemical and physical processes

MCHE-109 PHYSICAL CHEMISTRY PRACTICALS -II 60hr

COURSE LEARNING OUTCOME:

- CO1:** To understand the principles behind different instrumental methods like conductmeter & potentiometer
- CO2:** To understand the basic concepts of electro chemistry
- CO3:** Students get hands on experience in use of specific instrument like conductometry and potentiometry.

II SEMESTER

MCHE-201 INORGANIC CHEMISTRY- II

52hr

COURSE LEARNING OUTCOME:

- CO1:** Use Crystal field theory to predict the structure and magnetic behavior of metal complexes and understand the term- inner and outer orbital complexes.
- CO2:** Explain the meaning of the terms Δ_o , Δ_t , pairing energy, CFSE, high spin and low spin and how CFSE affects thermodynamic properties like lattice enthalpy and hydration enthalpy.
- CO3:** Understand the important properties of transition metals like variable oxidation states, colour, magnetic and catalytic properties and use Latimer diagrams to predict and identify species which are reducing, oxidizing and tend to disproportionate and calculate step potentials.
- CO4:** Understand reaction mechanisms of coordination compounds and differentiate between kinetic and thermodynamic stability

MCHE-202 ORGANIC CHEMISTRY-II

52hr

COURSE LEARNING OUTCOME:

- CO1:** Students will gain an understanding of all details of aliphatic/ aromatic electrophilic substitution reactions and aromatic nucleophilic substitution reactions.
- CO2:** Students will learn about various free radical reactions and elimination reactions including Pyrolytic eliminations and molecular rearrangement reactions with diverse examples.
- CO3:** Students will gain an understanding of formation and hydrolysis of esters, Addition of Carbon-carbon multiple bonds and addition to carbon- heteroatom multiple bonds
- CO4:** To gain the knowledge of aminoacids, Peptides and Vitamins

MCHE-203: PHYSICAL CHEMISTRY- II

52hr

COURSE LEARNING OUTCOME:

- CO1:** Concepts of partial molar properties, Gibbs- Duhem Margulus equation, determination of partial molar volume & phase rule.
- CO2:** Different Distribution Laws, distinguish heat transfer by conduction, convection and radiation & calculated the amount of heat energy transferred.
- CO3:** Learner will able to understand Electrochemistry of solutions, Ion-solvent interactions, ion-ion interactions, ionic migration and diffusion & theories of Double-Layer structure
- CO4:** To understand Current-potential relationship, over potentials, Electro catalysis, Polarographic technique & functioning of modern electrodes

MCHE-204 MOLECULAR SPECTROSCOPY

52hr

COURSE LEARNING OUTCOME:

- CO1:** Deals with the understanding of the spectroscopic techniques which are based on the interaction of the electromagnetic radiation in the microwave, infrared and X-ray region with the molecules.
- CO2:** The techniques introduced here are major characterization techniques employed to understand the chemical composition of compounds and the physical characteristics.
- CO3:** The course has multidisciplinary relevance as these techniques are used in various fields namely, chemistry, physics biology and materials science
- CO4:** To understand basic theories of electronic spectroscopy followed by the study of electronic spectra of some polyatomic molecules

BMS College for Women Autonomous
Post Graduate Department of Mathematics
THIRD SEMESTER
Course Outcome

MM301T : LINEAR ALGEBRA

1. To understand the concepts of Linear transformation and matrix representation of a linear transformation, Diagonalizability, 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
Fourth Semester
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 Alfvén 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 programming algorithms 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.

Name of the Program: Master of Commerce

Name of the Course: 1.4 TECHNOLOGY IN BUSINESS

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

Objective:

1. This course will provide an analytical and technical framework to understand the emerging world of e-commerce.
2. E-commerce poses a challenge and an opportunity for managers. As a matter of competitive necessity, managers must gain an understanding of the rapidly changing technology and business models.

Course Outcomes: On successful completion of the course, the students will be able to understand E-Commerce Business Models, Security Threats & Protections as well as application of Technology in every corner of the business in the world.

Name of the Program: Master of Commerce

Name of the Course: 1.5 ADVANCED FINANCIAL MANAGEMENT & PRACTICES

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

Objective:

1. To impart the knowledge in advanced techniques of financial management.
2. To enable the students to apply the techniques in financial decision making.

Course Outcomes: On successful completion of the course, the Students will be able to understand the advanced tools and techniques used in evaluating projects for financial decisions. The theories on financial management concepts will help the students to attain a greater anatomy on effective financial decision making in business.

Name of the Program: Master of Commerce

Name of the Course: 1.6 KNOWLEDGE MANAGEMENT & INNOVATION

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

Objectives:

1. To expose the students to the concepts of knowledge management.
2. To make students internalize good KM practices.

Course Outcomes: On successful completion of the course, the students will be able to understand the core concepts of knowledge management and application of knowledge management in various multi-disciplinary areas.

Name of the Program: Master of Commerce

Name of the Course: 1.7 BUSINESS MODELS FOR STARTUPS

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
2 Credits	3 Hrs	45 Hrs

Objectives:

1. To expose the students to the concepts of business model.
2. To expertise in the procedures and policies of business models

Course Outcomes: On successful completion of the course, the students will understand the current business models and ways to establish startups in India.

Name of the Program: Master of Commerce

Name of the Course: 2.1 CONTEMPORARY INDIAN BANKING

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

Objectives:

1. To expose the students to Indian Banking System along with the latest reforms in Banking.
2. To enable the students to understand prudential norms and new technologies in Banking

Course Outcomes: On successful completion of the course, the students will be able to understand the core banking services, prudential norms, new technologies and the latest transformation or reforms in Indian Banking Sector.

Name of the Program: Master of Commerce

Name of the Course: 2.2 RISK MANAGEMENT & DERIVATIVES

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

Objective

1. To provide basic knowledge of risk, type of risks and tools of risk management.
2. To familiarise students with risk management and mitigation tools.

Course Outcomes: On successful completion of the course, the students will be able to understand the basic knowledge of risk, type of risks and tools of risk management. They can understand the role of derivatives as financial instruments to mitigate the risks in Business.

Name of the Program: Master of Commerce

Name of the Course: 2.3 ADVANCED RESEARCH METHODOLOGY

No. of Hours per Week

4 Hrs

Objectives:

1. To familiarize students with concepts, tools and techniques of the methodology of business research.
2. To enable students to do a research / consultancy project in the fourth semester.

Course Outcomes: On successful completion of the course, the Students will be able to learn concepts, tools and techniques of the methodology of business research. It also gives an opportunity to do a research / consultancy project in future.

Name of the Program: Master of Commerce

Name of the Course: 2.4 DIGITAL MARKETING

Course Credits

4 Credits

No. of Hours per Week

4 Hrs

Total No. of Teaching Hours

60 Hrs

Objectives:

1. To expose the students towards holistic and value –driven management.
2. To understand the importance of social benefits.

Course Outcomes: On successful completion of the course, the students will gain industry background knowledge to knowledgeably navigate Internet Marketing topics including online advertising, search, social media, and online privacy.

Name of the Program: Master of Commerce

Name of the Course: 2.5 VENTURE CREATION & DEVELOPMENT

Course Credits

4 Credits

No. of Hours per Week

4 Hrs

Total No. of Teaching Hours

60 Hrs

Objectives:

1. To familiarise students about Venture capital.
2. To explore the sources of raising capital from private and government sector.

Course Outcomes: On successful completion of the course, the students will gain in-depth knowledge on venture creation and development of business plan. The students are exposed to successful entrepreneurship stories and encourage them to start their own enterprise.

Name of the Program: Master of Commerce

Name of the Course: 2.6 INDIAN ETHOS AND LEADERSHIP

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

Objectives:

1. To expose the students towards holistic and value –driven management.
2. To understand the importance of social benefits.

Course Outcomes: On successful completion of the course, the Students will be able to learn Indian Ethos and values along with its relevance on Leadership to take managerial decision making in the organization.

Name of the Program: Master of Commerce

Name of the Course: 2.7 FINANCIAL MODELLING FOR BUSINESS

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
2 Credits	3 Hrs	45 Hrs

Objective

1. To provide basic knowledge about estimation and valuation of a business.
2. To familiarise students with valuable predictive capabilities.

Course Outcomes: On successful completion of the course, the students will thoroughly understand the items in balance sheet of a company and forecast the future for better decision.

Name of the Program: Master of Commerce

Name of the Course: 3.1 INTELLECTUAL PROPERTY RIGHTS

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 3.2 TRADE LOGISTICS & SUPPLY CHAIN MANAGEMENT

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 3.3 (Finance) FINANCIAL MARKETS & SERVICES

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 3.4 (Finance) FINANCIAL PLANNING & INVESTMENT ENVIRONMENT

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 3.5 (Finance) INNOVATIONS IN BANKING & TECHNOLOGY

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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

Name of the Program: Master of Commerce

Name of the Course: 3.4 (Accounts) STRATEGIC COST MANAGEMENT - I

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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

Name of the Program: Master of Commerce

Name of the Course: 3.3 (Accounts) BUSINESS REPORTING AND PRACTICES

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 3.5 (Accounts) CORPORATE TAX PLANNING

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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

Name of the Program: Master of Commerce

Name of the Course: 4.1 ANALYTICS IN COMMERCE & BUSINESS

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 4.2 FORENSIC ACCOUNTING & AUDITING

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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

Name of the Program: Master of Commerce

Name of the Course: 4.3 (Finance) FOREX MANAGEMENT

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 4.4 (Finance) SECURITY ANALYSIS & PORTFOLIO MANAGEMENT

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 4.5 (Finance) STRATEGIC FINANCIAL MANAGEMENT

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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

Name of the Program: Master of Commerce

Name of the Course: 4.3 (Accounts) INTERNATIONAL ACCOUNTING

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 4.4 (Accounts) STRATEGIC COST MANAGEMENT - II

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.

Name of the Program: Master of Commerce

Name of the Course: 4.5 (Accounts) GOODS AND SERVICES TAX

Course Credits	No. of Hours per Week	Total No. of Teaching Hours
4 Credits	4 Hrs	60 Hrs

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.



B.M.S. COLLEGE FOR WOMEN
Autonomous Institution under Bengaluru City University
Bugle Rock Road, Basavanagudi,
Bengaluru – 560004
NAAC Accreditation 'A'

DEPARTMENT OF ACCOUNTING AND FINANCE

REGULATIONS PERTAINING TO B.COM- ACCOUNTING & FINANCE DEGREE

2023-2024

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	Principles of Marketing
B.Com.AF.1.3	Quantitative Aptitude
B.Com.AF.1.4	Indian Financial System
SECOND SEMESTER	
CODE	SUBJECTS
B.Com.AF.2.1	Advance Financial Accounting
B.Com.AF.2.2	Financial Management
B.Com.AF.2.3	Business Regulations
B.Com.AF.2.4	Banking Theory and Practice

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

B.Com.AF.1.1	Financial Accounting
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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

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.

B.Com.AF.1.2	Principles of Marketing
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CO1-Know the functions of management and the role of a manager.

CO2- promotion, sales, distribution channel

CO3-Evaluate the pricing methods and physical distribution channels.

CO4-Gain knowledge on the functioning of Multinational Corporations and their trade relationship with Indian Companies.

CO5- Understand the elements of marketing mix and functions of marketing.

B.Com.AF.1.4	Indian Financial System
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CO1-Study about Banking functions.

CO2-Know about the functioning of the Reserve Bank of India

CO3-Gain knowledge on the functioning of Multinational Corporations and their trade relationship with Indian Companies.

B.Com.AF.1.3	Quantitative Aptitude
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CO1-Know the basic knowledge about Number System and Equations.

CO2-Analyse the Economic aspects with the application of Mathematics.

CO3-Analyse the Mathematical Applications in business and trade transactions.

B.Com.AF.2.1	Advance Financial Accounting
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CO1-Advanced Financial Accounting covers complex financial reporting issues like consolidations, foreign currency transactions, and derivatives. You'll tackle business combinations, equity method investments, and segment reporting.

CO2-Collect information about the avenues open for investors.

B.Com.AF.2.2	Financial Management
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C01- Financial management is **strategic planning, organising, directing, and controlling of financial undertakings in an organisation or an institute.** It also includes applying management principles to the financial assets of an organisation, while also playing an important part in fiscal management.

B.Com.AF.2.3	Business Regulations
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C01-An ability to apply knowledge of Business Law. • Ability to know the details of Contract, Sale of Goods and Negotiable Instruments. • Ability to know the formation and some laws of Company, Partnership and Limited Liability Partnership. • Ability to know the Intellectual Property Rights, Competition Law and Law of

B.Com.AF.2.4	Banking Theory and Practice
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C01 -Discuss the impact of government policy and regulations on the banking industry.

C02 -Evaluate the performance of the banking industry.

C03 -Discuss bank lending policies and procedures.

C04 -To elucidate the broad functions of banks

C05 - To understand the working of the Reserve Bank of India



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BUSINESS DATA ANALYTICS

REGULATIONS PERTAINING TO B.COM- Business Data Analytics DEGREE

2023-2024

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	Principles of Marketing
B.Com.AF. 1.3	Business Environment
B.Com.AF. 1.4	Spreadsheet Analytics
SECOND SEMESTER	
CODE	SUBJECTS
B.Com.AF. 2.1	Advance Financial Accounting
B.Com.AF. 2.2	Human Resource Management
B.Com.AF. 2.3	Business Regulations
B.Com.AF. 2.3	DBMS & SQL

Course outcome (CO) for B.COM-
Business Data Analytics. 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.

B.Com.AF. 1.2	Principles of Marketing
------------------	-------------------------

CO1-Know the functions of management and the role of a manager.

CO2- promotion, sales, distribution channel

CO3-Evaluate the pricing methods and physical distribution channels.

CO4-Gain knowledge on the functioning of Multinational Corporations and their trade relationship with Indian Companies.

CO5- Understand the elements of marketing mix and functions of marketing.

B.Com.AF. 1.3	Business Environment
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CO1-Students would be acquainted with business objectives, dynamics of business and environment, various types of business environment and its analysis

CO2Students would recall and relate various concepts like business ethics, ethical dilemmas, corporate culture and ethical climate. They would also be acquainted about development of various acts applicable to business in India

CO3Students would describe and discuss Corporate Social Responsibility, Corporate Governance and Social Audit

B.Com.AF. 1.4	Spreadsheet Analytics
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CO1-Format a Word Document.

CO2-Type texts with columns, use page breaks and accomplish efficient paragraph alignment.

CO3-Create a Pivot table and explain data with the help of Charts

B.Com.AF. 2.1	Advance Financial Accounting
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CO1-Advanced Financial Accounting covers complex financial reporting issues like consolidations, foreign currency transactions, and derivatives. You'll tackle business combinations, equity method investments, and segment reporting.

CO2-Acquire the basic knowledge on accounting concepts, conventions and the basics of Accounting Standards

CO3-Prepare Final Accounts of a Sole Trading Concern.

B.Com.AF.2.2	Human Resource Management
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CO1-Effectively manage and plan key human resource functions within organizations

CO2-Effectively manage and plan key human resource functions within organizations

CO3-Examine current issues, trends, practices, and processes in HRM

CO4-Contribute to employee performance management and organizational effectiveness

CO5-Problem-solve human resource challenges

CO6-Develop employability skills for the Canadian workplace

CO7-Develop effective written and oral communication skills

B.Com.AF.2.3	Business Regulations
--------------	----------------------

CO1-An ability to apply knowledge of Business Law. • Ability to know the details of Contract, Sale of Goods and Negotiable Instruments. • Ability to know the formation and some laws of Company, Partnership and Limited Liability Partnership. • Ability to know the Intellectual Property Rights, Competition Law and Law of

B.Com.AF.2.3	DBMS & SQL
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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-Calculate average due date for the loans and advances

CO5-Understand the elements of marketing mix and functions of marketing.

CO6-Know the basic knowledge about Number System and Equations.