

B.M.S College for Women
Department of Biotechnology-Programme Outcome

B .Sc SEMESTER-I
CELL BIOLOGY, GENETICS AND BIOCHEMISTRY

Learning Outcome:

Students get the basic concept of

- Cell biology, genetics and biochemistry.
- Obtain the knowledge of the various cell organelles and their function.
- Genetics gives insight of heredity, mutation and genetic disorders.
- Biochemistry provides a detailed understanding of different biochemical processes occurring within a cell.

B.Sc SEMESTER-II
MICROBIOLOGY

Learning Outcome:

Students get the basic knowledge of

- Different microbial forms
- Microbial growth and metabolism.
- Better understanding of various microbial techniques
- food preservation techniques
- Role of microorganisms in day-to-day life.

B.Sc., SEMESTER-III
MOLECULAR BIOLOGY AND BIOPHYSICS

Learning Outcome:

At the end of this paper, Students will be familiar with

- Structure and function of DNA, RNA
- Basic cellular processes (like Replication, Transcription, Translation, etc.),
- Application of analytical techniques in industries, research laboratories, etc.
- Learn about the working principles and application of various instruments.

B.Sc., SEMESTER-IV GENETIC ENGINEERING

Learning Outcome:

Students will have in depth insight of

- Techniques such as PCR, DNA Sequencing, r DNA technology Cloning etc.
- understand the applications of genetic engineering
- in prominent sectors like human health care, agriculture, environment and forestry, food and dairy industry.

B.Sc., SEMESTER-V PAPER V – ENVIRONMENTAL BIOTECHNOLOGY AND IMMUNOTECHNOLOGY

Learning Outcome:

This will help the students to understand the application of biotechnology in

- Environment and making them accustomed with the improved technologies available for environmental management.
- Learn and assess biological methods for pollution control, energy and resource recovery from waste, bioremediation and how they can contribute to clean technology, Biological processes to remove or recover inorganic and organic pollutants from liquid and gaseous effluents, and from solid waste, Biological processes for energy and biomass production from waste.
- Understand the various immune cells, molecules and pathways involved in induction and regulation of innate and adaptive response.
- understand different immunological response
- Concept regarding vaccines, new therapeutics and immunization.

PAPER VI –PLANT AND ANIMAL BIOTECHNOLOGY

Learning Outcome:

This is a practical based subject focusing on providing students with the theoretical and practical understanding in Plant Biotechnology.

- They will be familiar with sterile media preparation techniques, Micropropagation, organogenesis and embryogenesis. The students will develop fundamental knowledge in Plant Biotechnology and its application in laboratory and industry settings.
- Learn about various animal cell culture techniques, methods of isolation, transformation techniques, stem cells and its application.
- Learn the importance of animal cell culture for research and Biotechnology industry.

B.Sc., SEMESTER-VI PAPER VII – INDUSTRIAL BIOTECHNOLOGY

Learning Outcome:

This helps the students to understand the application of biotechnology in industrial application.

- Learn about fermenters and fermentation techniques for large scale production of products.
- Gain hands on experience in preparation of wine, cheese, yoghurt etc.

B.Sc., SEMESTER-VI PAPER VIII– BIOINFORMATICS, BIO ENTREPRENEURSHIP and BIORESEARCH

Learning Outcome:

- The module of Bioinformatics help the students to get familiarized with the various tools used to get data in genomics and proteomics which add to their employability in the Biotech sector.
- Entrepreneurship and bioresearch will help students to create presentation and business plans that articulate and apply financial operational, market and sales knowledge.
- Students will be able to apply learned knowledge to their future research.

III B.SC- BOTANY

Program Learning Outcomes:

The students graduating with the Degree B.Sc. Three years and B.Sc. (Honours) Botany should be able to acquire.

Core competency: Students will acquire core competency in the subject Botany, and allied subject areas.

1. The student will be able to identify major groups of plants and compare the characteristics of lower (e.g., algae and fungi) and higher (angiosperms and gymnosperms) plants.
2. Students will be able to use the evidence-based comparative botany approach to explain the evolution of organisms and understand the genetic diversity on the earth. The students will be able to explain various plant processes and functions, metabolism, concepts of gene, genome, and how organism's function is influenced at the cell, tissue, and organ level.
3. Students will be able to understand the adaptation, development, and behaviour of different forms of life.
4. The understanding of networked life on earth and tracing the energy pyramids through nutrient flow is expected from the students.
5. Students will be able to demonstrate the experimental techniques and methods of their area of specialization in Botany.

Analytical ability:

The students will be able to demonstrate the knowledge in understanding research and addressing practical problems.

1. Application of various scientific methods to address different questions by formulating the hypothesis, data collection, and critically analyze the data to decipher the degree to which their scientific work supports their hypothesis.

Critical Thinking and problem-solving ability:

An increased understanding of fundamental concepts and their applications of scientific principles is expected at the end of this course. Students will become critical thinkers and acquire problem-solving capabilities.

Digitally equipped:

Students will acquire digital skills and integrate the fundamental concepts with modern tools. Ethical and Psychological strengthening: Students will also strengthen their ethical and moral values and shall be able to deal with psychological weaknesses.

Team Player: Students will learn team workmanship in order to serve efficiently institutions, industry, and society.

Independent Learner: Apart from the subject-specific skills, generic skills, especially in botany, the program outcome would lead to gain knowledge and skills

for farther higher studies, competitive examinations, and employment. Learning outcomes-based curriculum would ensure equal academic standards across the country and a broader picture of their competencies. The Bachelor's program in Botany and Botany honours may be mono-disciplinary or multidisciplinary with following broad objectives.

1. Critically evaluation of ideas and arguments by collecting relevant information about the plants, to recognize the position of the 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 the 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 present scientific hypotheses and data both orally and in writing in the formats that are used by practicing scientists.
6. Students will be able to access the primary literature, identify relevant works for a particular topic, and evaluate the scientific content of these works.
7. Students will be able to apply fundamental mathematical tools (statistics, calculus) and physical principles (physics, chemistry) to the analysis of relevant biological situations.
8. 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 other forms of life.
9. 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.
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.

B. Sc. Botany Course outcomes as per NEP 2020

The framework of curriculum for the Bachelor's program in Botany aims to transform the course content and pedagogy to provide a multidisciplinary, student-centric, and outcome-based, holistic education to the next generation of students.

Aside from structuring the curriculum to be more in-depth, focused, and comprehensive with significant skill-set for all exit levels; keeping in mind the job prospects; the emphasis has been to maintain academic coherence and continuum throughout the program of study and help build a strong footing in the subject, thereby ensuring a seamless transition into their careers.

Special attention is given to eliminate redundancy, discourage rote learning, and espouse a problem-solving, critical thinking, and inquisitive mindset among learners.

The curriculum embraces the philosophy that science is best learned through experiential learning, not limited to the confines of a classroom but rather through hands-on training, projects, field studies, industrial visits, and internships.

This updated syllabus, with modern technology, helps students stay informed on the leading-edge developments in plant sciences and promotes curiosity, innovation, and a passion for research, that will serve them well in their journey into scientific adventure and discovery beyond graduation.

The goal is to equip students with holistic knowledge, competencies, professional skills, and a strong positive mindset that they can leverage while navigating the current stiff challenges of the job market.

B. Sc. BOTANY – V Semester **Paper V: Plant Morphology and Taxonomy**

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

- CO1. Understanding the main features in Angiosperm evolution
- CO2. Ability to identify, classify and describe a plant in scientific terms, thereby, Identification of plants using dichotomous keys. Skill development in identification and classification of flowering plants.
- CO3. Interpret the rules of ICN in botanical nomenclature.
- CO4. Classify Plant Systematic and recognize the importance of herbarium and Virtual Herbarium, Evaluate the Important herbaria and botanical gardens
- CO5. Recognition of locally available angiosperm families and plants and economically important plants. Appreciation of human activities in conservation of useful plants from the past to the present.

B. Sc. BOTANY – V Semester
Paper VI: Genetics and Plant Breeding

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

- CO1. Understanding the basics of genetics and plant breeding
- CO2. Ability to identify, calculate and describe crossing over, allelic frequencies and frequencies of recombination.
- CO3. Interpret the results of mating and pollinations.
- CO4. Classify plant pollination methods
- CO5. Recognition of modes of inheritance of traits/ phenotypes and Phenotype-genotype correlation.

B. Sc. BOTANY – VI Semester
Paper VII: CELL AND MOLECULAR BIOLOGY

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

- CO1. Understanding of Cell metabolism, chemical composition, physiochemical and functional organization of organelles.
- CO2. Contemporary approaches in modern cell and molecular biology.
- CO3. To study the organization of the cell, cell organelles and biomolecules (i.e. Protein, carbohydrate, lipid and nucleic acid).
- CO4. To gain knowledge on the activities in which the diverse macromolecule and microscopic structures inhabiting the cellular world of life are engaged. To understand the various metabolic processes such as respiration, photosynthesis etc., which are important for life.

B. Sc. BOTANY – VI Semester
Paper VIII: PLANT PHYSIOLOGY AND PLANT BIOCHEMISTRY

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

- CO1. Importance of water and the mechanism of transport.
- CO2. To understand biosynthesis and breakdown of biomolecules.
- CO3. Role of plant hormones in plant development and about secondary metabolites.
- CO4. Preliminary understanding of the basic functions and metabolism in a plant body.
- CO5. To understand the importance of nutrients in plant metabolism and crop yield.

Program Outcomes:

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 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.

Additional Program Outcomes: **B.Voc-IT Degree (Hons)**

The Bachelor of Information Technology (B.Voc-IT (Hons)) program enables students to attain following additional attributes besides the afore-mentioned attributes, by the time of graduation:

1. Apply standard Software Engineering practices and strategies in real time software project development
2. Design and develop computer programs/computer -based systems in the areas related to AI, algorithms, networking, web design, cloud computing, IoT and data analytics.
3. Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems
4. The ability to apply the knowledge and understanding noted above to the analysis of a given information handling problem.
5. The ability to work independently on a substantial software project and as an effective team member.

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.



B.M.S COLLEGE FOR WOMEN
Autonomous
Bengaluru

NAAC Accreditation 'A' Grade
Affiliated to Bengaluru City University
Bengaluru

Choice Based Credit System

SYLLABUS FOR M.Sc. CHEMISTRY

(2021 Onwards)

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.

MODEL CURRICULUM

Name of the degree program: B.Sc. Honours

Discipline Core: Clinical Nutrition and Dietetics

PROGRAM OUTCOMES:

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

PO	Program Outcomes
PO1	Understand the basic concepts of food science and nutrition and role of food and nutrients in growth, development, disease prevention and management.
PO2	Explain functions of macro and micronutrients, deficiencies, disorders and identify foods rich in specific nutrients.
PO3	Understand the complex processes of human physiology, metabolism, and human biochemistry with reference to energy and nutrition requirements.
PO4	Competent to implement food safety regulations and create awareness about sanitation, safety, hygiene for individuals, families, and communities.
PO5	Understand food and nutrition security and create awareness to public and communities.
PO6	Evaluate and assess the nutrient requirements of infants, children, and adults.
PO7	Critically analyze nutritional status of different age groups, and design diet plan as per the nutritional requirements.
PO8	Understand the importance of nutrition in lifestyle disorders and derive 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 health-care 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 counselling or consultancy and to 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 health food industry, critical care nutrition segments, clinical setups, nutraceutical industry, sports and fitness centers, therapeutic nutrition product manufacturing set ups, geriatric care units, meal/food distribution centers, women and child development organizations, Food auditing set ups, Food testing labs and Food corporations.

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.

The students who pass out M.Com can be placed in multiple Industries due to the benefits of studying multiple subjects / courses.

They can be placed in

- **Teaching Field:** Lecturers, Research Assistant, Teachers, Online Tutor, Resource Person, Subject Expert, Etc
- **Banking Industry:** as operations officers, specialist officer, probationary officer, regional rural officers, clerks, Loans and Advances officer, Marketing officer etc
- **Taxation field:** Associate Audit, Accounts assistant, Accountant, Budget Analyst, Business and corporate Analyst, Tax Specialist, etc.
- **Financial Sector:** Financial Analyst, Equity Analyst, Portfolio Manager, Financial Planning, Stock Broking , Risk Management , Corporate Finance, Investment Banker, Security analyst Compliance Analyst, Investment Banking, Insurance Advisor Hedge Fund Manager etc
- **Accounting area:** Public Accounting, Junior Account, Company Law Accountant, Relationship Manager, Accounts Assistant, Market Analyst, Marketing Manager, Cost Accountant, Business Analyst, Cashier, Etc
- **Entrepreneurship:** Can Become Entrepreneurs In The Field Of Their Choice, Interest And Based On Market Opportunities.

Program Outcomes:

On completion of the 03/04 years Degree in Optional English, students will be:

1. Exposed to and demonstrate broad knowledge of major and minor writers, texts and contexts and defining issues of canonical and non-canonical literature
2. Enriched by familiarity with other literatures and more importantly with Indian writers, their ethos and tradition of writing and discourse
3. Honing their skills of remembering, understanding, applying, analyzing, evaluating and creating literature
4. Able to write with clarity, creativity and persuasiveness
5. Developing and demonstrating their awareness of the significance of literature and literary forms and the debates of culture they generates values
6. Equipped with advanced literary, linguistic skills
7. Able to develop Competency in the use of English from/for a variety of domains
8. Able to inculcate a spirit of inquiry and critical thinking
9. Be able to articulate thoughts and generate/understand multiple interpretations
10. Able to locate and contextualize texts across theoretical orientations and cultural two spaces
11. Possessing Reading and writing skills catering to academic and other professional disciplines viz. print and electronic media, advertising, content writing etc.
12. Imbibing a multi-disciplinary approaching higher education and research
13. Skilled in multiple domains and careers
14. Adept in using English in the current technological climate
15. Having hands-on work experience

Course	Type of Course	Theory/ Practical	Credits	Instruction hours per week	Total No. of Lectures /Hours /Semester	Duration of Exam	Formative Assessment Marks	Summative Assessment Marks	Total Marks
05	DSCC	Theory	03	03	45hrs	2 1/2hrs	40	60	100

ಬಿ.ಎಂ.ಎಸ್ ಮಹಿಳಾ ಮಹಾವಿದ್ಯಾಲಯ (ಸ್ವಾಯತ್ತ)

ಬಸವನಗುಡಿ, ಬೆಂಗಳೂರು - 560004

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

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

B.M.S. College for Women

Autonomous Institution under Bengaluru City University

Department of Journalism

Programme Objectives and Outcome

To introduce basics of mass communication and mass media and help students become skilled with different kinds of communication. To help them gain knowledge of the evolution of Journalism. To induce insights on ethical concerns, regulations and advancement of technology. To make students industry ready with the understanding of reporting, editing, advertising techniques and public relations strategies. Exposing students to practical aspects of journalism with report, editorial, column, feature writings along with developing skills like photojournalism, photo editing, layout and design.

Course Outcome:

- Students will be able to understand dimensions of mass communication
- Develop an understanding of the fundamental concepts in Journalism
- Discuss the recent trends in mass media
- Analyze and review different newspapers.
- Students will be able to understand the basic concepts of computer and its applications in print and electronic Journalism.
- Get acquainted with internet applications

**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
SPO2:	problems in pure and applied mathematics.
SPO3:	To assimilate complex mathematical ideas and arguments.
SPO4:	To improve own learning and performance. To develop abstract mathematical thinking.

Syllabus for B.A/B.Sc (Honors) Mathematics

Name of the Degree

Program: B.Sc.

Discipline Course : Mathematics

Starting Year of Implementation: 2021-22

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

PO 1	Disciplinary Knowledge: Bachelor degree in Mathematics is the culmination of in-depth knowledge of Algebra, Calculus, Geometry, differential equations and several other branches of pure and applied mathematics. This also leads to study the related areas.
PO 2	Communication Skills: Ability to communicate various mathematical concepts effectively using examples and their geometrical visualization. The skills and knowledge gained in this program will lead to the proficiency in analytical reasoning which can be used for modeling and solving of real life problems.
PO 3	Critical thinking and analytical reasoning: The students undergoing this programme acquire ability of critical thinking and logical reasoning and capability of recognizing and distinguishing the various aspects of real life problems.
PO 4	Problem Solving: The Mathematical knowledge gained by the students through this programme develop an ability to analyze the problems, identify and define appropriate computing requirements for its solutions. This programme enhances students overall development.
PO 5	Research related skills: The completing this programme develop the capability of inquiring about appropriate questions relating to the Mathematical concepts in different areas of Mathematics.
PO 6	Information/digital Literacy: The completion of this programme will enable the learner to use appropriate softwares to solve system of algebraic equations and differential equations.
PO 7	Self –directed learning: The student completing this program will develop an ability of working independently and to make an in-depth study of various notions of Mathematics.
PO 8	Moral and ethical awareness/reasoning:: The student completing 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 general.
PO 9	Lifelong learning: This programme provides self-directed learning and lifelong learning skills. This programme helps the learner to think independently and develop algorithms and computational skills for solving real world problems.
PO 10	Ability to peruse advanced studies and research in pure and applied Mathematical sciences.

B.M.S EDUCATIONAL TRUST
B.M.S COLLEGE FOR WOMEN
Autonomous Institution under Bengaluru City University
NAAC Accreditation: 'A' Grade
Bugle Rock Road, Basavanagudi, Bengaluru-560004

ACADEMIC AND ADMINISTRATIVE AUDIT
(AAA):2022-23

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

Criteria - 1

Bhuneswarinani

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.

BMS COLLEGE FOR WOMEN AUTONOMOUS
DEPARTMENT OF BUSINESS ADMINISTRATION

2022-2023

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.

Program Outcomes:

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 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.

Additional Program Outcomes: **B.Voc-IT Degree (Hons)**

The Bachelor of Information Technology (B.Voc-IT (Hons)) program enables students to attain following additional attributes besides the afore-mentioned attributes, by the time of graduation:

1. Apply standard Software Engineering practices and strategies in real time software project development
2. Design and develop computer programs/computer -based systems in the areas related to AI, algorithms, networking, web design, cloud computing, IoT and data analytics.
3. Acquaint with the contemporary trends in industrial/research settings and thereby innovate novel solutions to existing problems
4. The ability to apply the knowledge and understanding noted above to the analysis of a given information handling problem.
5. The ability to work independently on a substantial software project and as an effective team member.

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

2022-2023

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.

B.M.S. COLLEGE FOR WOMEN
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NAAC Accreditation 'A'

DEPARTMENT OF business data analytics

REGULATIONS PERTAINING TO B.COM- Business Data Analytics DEGREE

2022-2023

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.
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