# FOUR YEAR UNDERGRADUATE PROGRAM(2024−28)
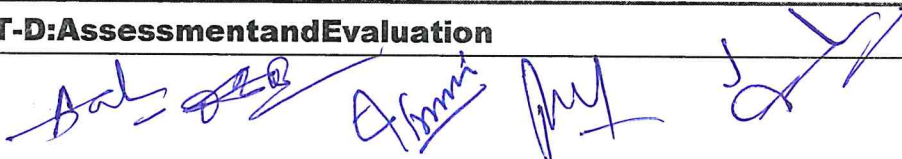## Department of Commerce and Management
## C O U R S E CURRICULUM

| PART-A: | Introduction | | |
|---|---|---|---|
| **Program: Bachelor in Business Administration** *(Certificate / Diploma / Degree/Honors)* | | **Semester-I** | **Session:2024-2025** |
| 1 | CourseCode | BBSC-02 | |
| 2 | CourseTitle | Business Mathematics | |
| | CourseType | Discipline Specific Course (DSC) | |
| 4 | Pre-requisite(if,any) | *Asperrequirement* | |
| 5 | CourseLearning. Outcomes(CLO) | ➤ *The aim of the course is to build knowledge and understanding of BusinessMathematics among the student.* ➤ *The course seeks to give detailed knowledge about the subject matter by instillingin the basic ideas about Business Mathematics.* ➤ *To provide knowledge about Mathematics and its use in business. To enable thelearner about Mathematical Calculations.* | |
| 6 | CreditValue | **4Credits** | *Credit=15Hours-learning&Observation* |
| 7 | TotalMarks | Max.Marks:  100 | MinPassingMarks:  40 |

**PART-B:**   **ContentoftheCourse**

TotalNo.of Teaching–learningPeriods(01 Hr.perperiod)– 60Periods(60 Hours)

| Unit | Topics(Coursecontents) | No.of Period |
|---|---|---|
| I | **Matrices:** Definition of a Matrix; Types of Matrices; Algebra ofMatrices; Adjoint of a Matrix, Matric Inverse elementary row & columnoperations.Determinants: Properties of determinants; Calculation of values ofDeterminants up to third order. | 15 |
| II | **Types of Equations:** Simple/ Linear Equations and SimultaneousEquations (only two variables),Elimination and Substitution Methodsonly. Quadratic Equation - Factorization and Formula Method ($ax2 + bx+ c = 0$ form only). Simple problems. **Indices and Logarithms:** Meaning- Basic Laws of Indices and their application for simplification. Laws of Logarithms –Common Logarithm,Application of Log Table for Simplification | 15 |
| III | **Average & Ratio:** duplicate-triplicate and sub- duplicate of a ratio. **Proportions:** third, fourth and inverse. Proportion,problems.Speed, Distance and Time. Commission, Discount, Profit and Loss, Percentages. | 15 |
| IV | .**Simple Interest,Compound Interest** including yearly and half yearly calculations, Annuities, Percentages, Bills Discounting, | 15 |

*Keywords:*      *Matrices, Indices, Logarithms, Average, Ratio, Proportion, Simple Interest.*

**PART–C:**    **LearningResources**

TextBooks,ReferenceBooksand Others

1. *Business Mathematics: Dr. S.M. Shukla, Sahitya Bhawan Publications.*
2. *"Practical Business Mathematics and Statistics" SuranjanSaha, Tata Mc. Graw – Hill Publishing Company ltd. New Delhi.*
3. *" Business Mathematics" by Dr. B.N. Gupta & Dr. S.K. Agrawal, Sahitya Bhawan Agra.*
4. *M. Rsghsvachari : Mathematics for Management – An Introduction. Tata Mc Graw Hill Pub. Co., New Delhi.*

Online Resources–
https://www.kopykitab.com/
https://www.hitbullseye.com/grad-

**PART-D:AssessmentandEvaluation**

| Suggested Continuous Evaluation Methods: | | |
|---|---|---|
| **Maximum Marks:**                  100Marks | | |
| **ContinuousInternalAssessment(CIA):**     30Marks | | |
| **EndSemesterExam(ESE):**              70 Marks | | |
| **ContinuousInternal Assessment (CIA): (ByCourseTeacher)** | InternalTest/Quiz-(2):**20&20** <br> Assignment/Seminar-      **10** <br> TotalMarks-           **30** | Bettermarks outofthetwoTest/ Quiz **+**obtainedmarksinAssignmentshallbe considered against **30** Marks |
| **EndSemester Exam (ESE):** | **Twosection– A &B** <br> SectionA:**Q1**.Objective–10x1=**10**Mark;**Q2**.Short answertype-**5x4=20Marks** <br> SectionB:Descriptiveanswertypeqts.,**1outof2**fromeachunit-**4x10=40Marks** | |

*Name and Signature of Convenor & Members (CBoS):*