



SMRJ Government College, Siwani (Bhiwani)

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Session: 2024-25

(Department of ...Mathematics..)

Teacher: Dr. Ranjeet Singh

Class: BA I/Bsc 1

Semester: 01

Internal Assessment Marks: 30

End Term Exam Marks: 70

Course Type & Title: Calculus

Course Code: 20UMTH 101

Credits: Maximum Marks: 100

- **Program outcomes:**
- **After completing this program every student will be able to do research in mathematics for the benefit of society as well as our technological advancement of our country.**

Course Outcomes:

After completing this course the student will be able to have Knowledge of various techniques regarding

Basic Properties of limits

Continuous Function

Classification of Discontinuity

Differentiability and Leibniz theorem

Asymptotes and Curvature

Singular Points and Multiple Points

Tracing of Curves

Parametric and polar equations

Solution of partial differential Equations

Signature of the teacher concerned

Head of the Department



SMRJ Government College, Siwani (Bhiwani)

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Session: 2024-25



(Department of ...Mathematics..)

Teacher:Dr. Ranjeet Singh

Class: BA/Bsc II

Semester:03

Internal Assessment Marks: 30

End Term Exam Marks: 70

Course Type & Title: Differential Equations

Course Code:20UMTH 301

Credits:Maximum Marks: 100

- **Program outcomes:**
- **After completing this program every student will be able to do research in mathematics for the benefit of society as well as our technological advancement of our country.**

➤ **Course Outcomes: After completing this course the student will be able to have Knowledge of various techniques regarding basic Properties of limits**

Continuous Function

Classification of Discontinuity

Differentiability and Leibnitz theorem

Assymptotes and Curvature

Singular Points and Multiple Points

Tracing of Curves

Parametric and polar equations

Reduction Formula

Signature of the teacher concerned

Head of the Department



SMRJ Government College, Siwani (Bhiwani)

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Session: 2024-25



(Department of ...Mathematics..)

Teacher: Dr. Ranjeet Singh

Class: BA /Bsc III

Semester: 05

Internal Assessment Marks: 30

End Term Exam Marks: 70

Course Type & Title: Mathematical Analysis

Course Code: 20 U MTH 503

Credits: Maximum Marks: 100

- Program outcomes:
- After completing this program every student will be able to do research in mathematics for the benefit of society as well as our technological advancement of
- our country.

Course Outcomes: Knowledge of various techniques regarding

Boundedness of the set of real numbers; least upper bound, greatest lower bound of a set,

All above concepts have been grasped thoroughly

Sequence: Real Sequences and their convergence,

Infinite series: Convergence and divergence of geometric series, p-series.

Signature of the teacher concerned

Head of the Department



SMRJ Government College, Siwani (Bhiwani)

(Affiliated to Chaudhary Bansi Lal University, Bhiwani)

Session: 2024-25

B.Com.1

(Department of ...Mathematics..)



Teacher:Dr. Ranjeet Singh

Class: B.com I

Semester: 01

Internal Assessment Marks: 30

End Term Exam Marks: 70

Course Type & Title: Business Mathematics

Course Code: 24UN-COM-104

Credits:Maximum Marks: 100

Program Outcomes:

After completing this course,the learner will be able to:

1. After completing B.Com student will be able to learn application of mathematics in various types of business purposes.

Course Outcomes:

After completing this course,the learner will be able to:

1. Understand set theory, logical statements and truth tables.
2. Learn the logarithms and arithmetic and geometric progressions and their applications.
3. familiarize with the concepts of matrices and determinants.
4. Have the conceptual knowledge of Compound interest,annuity,

Signature of the teacher concerned

Head of the Department