



Department of Mathematics

- I. Course Names: 1. B.A. /B.Sc.
2. M.A./M.Sc.
3. Ph.D. Programme in Mathematics
- II. Course Outcomes:
1. The course encourages the students to acquire more and more knowledge in Mathematical Sciences and promote them for further studies.
 2. The course encourages the students to take admissions in higher studies and do research work.
 3. Both the courses viz. U.G. and P.G. enables them to go in various fields like
 - Banking Sector
 - Teaching Profession (T.G.T., P.G.T.)
 - Do research, Post Doctorate and become Scientists, Assistant Professors in Higher Education
 - Public Sector
 4. The course enables them to go in Business management, Computer courses viz. M.B.A./M.C.A. and various other courses.
 5. The Ph.D. course enables them for Post doctorate degree and also prepare them to deal with real world problems with the help of mathematical skills in corporate/research institutes. Areas of research are pure and applied Mathematics both. Some specific fields are Mathematical Modeling, Fuzzy set theory, Fixed point theory, Operations Research and its applications.

Specific Outcomes:

- In P.G. classes there is a paper viz. 'Operations Research' is taught which prepares them for jobs in multinational companies.
- In U.G. classes basic knowledge of Statistics is provided to students which is in high demand in private sector companies.
- Syllabus contains programming like Statistical analysis, Python, MATLAB etc which helps them a lot and enables them to be selected in various medical companies doing research.

Relevance of the Course: U.G. courses viz. B.A./B.Sc. serves as a basic platform to provide fundamental knowledge of Mathematics whereas P.G. courses viz. M.A./M.Sc. provides deep knowledge of the subject including knowledge of specific fields.

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Bachelor of Arts (B.A.)

About the Course:

The Bachelor of Arts (BA) program at VSSD College, established in 1925, provides a dynamic and flexible learning experience aligned with the goals of the New Education Policy (NEP) 2020. The course aims to foster critical thinking, creativity, communication skills, and a multidisciplinary approach to education.

The BA program offers a holistic education, integrating subjects from the humanities, social sciences, and languages, while promoting collaboration with disciplines like science, technology, and vocational studies. Students can design their academic journey by selecting a blend of core and elective subjects, encouraging innovation and practical knowledge.

In addition to traditional subjects, the program emphasizes digital literacy, entrepreneurship, sustainability, and life skills, preparing students for diverse roles in a rapidly evolving global environment.

Key Features:

- **Multidisciplinary Learning:** Students can combine subjects across humanities, sciences, and technology.
- **Skill Development:** Focus on communication, critical thinking, problem-solving, and leadership skills.
- **Experiential Learning:** Emphasis on internships, research projects, and community engagement.
- **Flexible Curriculum:** Choice-based credit system (CBCS) and multiple entry/exit options.
- **Cultural and Ethical Development:** Courses in Indian knowledge systems, ethics, and global citizenship.

Subjects Offered:

Languages:

1. Hindi
2. English
3. Sanskrit

Humanities and Social Sciences:

1. Political Science
2. Economics
3. History
4. Geography
5. Military Studies
6. Physical Education
7. Sociology
8. Mathematics


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Career Opportunities Post-BA:

The program equips students with versatile skills for careers in:

1. Teaching
2. Journalism
3. Civil Services
4. Advertising
5. Social Work
6. Banking
7. SSC (Staff Selection Commission)
8. Railways
9. Defense Services
10. Content Writing
11. Mass Media

NEP 2020 Alignment:

The BA program adheres to NEP 2020 by offering:

- Interdisciplinary courses and skill-based certifications.
- A focus on vocational training and employability.
- Academic pathways for higher education and research.
- Support for lifelong learning and global competitiveness.


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