



VIVEKANANDA GLOBAL UNIVERSITY, JAIPUR

(Established by Act 11/2012 of Rajasthan Govt. Covered u/s 2 (f) of UGC Act, 1956)

ON. VGU

O N L I N E V G U

Entitled by UGC

Online
M.Sc.

MATHEMATICS



CDOE CENTRE FOR DISTANCE AND ONLINE EDUCATION
Vivekananda Global University

ADMISSION

OPEN



NAAC GRADE
Accreditation University



UGC
Entitled



AICTE

ABOUT VGU

Vivekananda Global University is one of the leading private universities in India. VGU is a NAAC A+ accredited and UGC approved institution supplementing the young generation with a credible step forward in their careers. All programmes of VGU are UGC and other regulatory bodies approved. VGU is committed to providing excellence in education, research, consultancy, and the promotion of human advancement. We have set up thousands of benchmarks and created an impact on higher education unparalleled to any other. We have been proudly accoladed with the title of:

- The Most Preferred Private University Of The Year-WEST for 2 Consecutive Years.(2018/19)
- 4 Star Rated Green Campus by ASSOCHAM, India
- Acknowledged in the Forbes List 2018 Among 35 Institutes Across India
- Certified as a Global League Institute 2019-20, With rating of 4,1/5 based on the Student Satisfaction Survey



100+ Courses



25+ Incubated Start ups



5000+ Learners



1500+ Placements

APPROVALS & ASSOCIATIONS



Online Programme
Entitled by UGC

Accredited by National
Assessment & Accreditation
Council



All India Council for
Technical Education

QS WORLD
UNIVERSITY
RANKINGS

QS ASIA UNIVERSITY RANKINGS - 2025



APPROVALS & ASSOCIATIONS

Trust and Legacy built by VGU over the years is now extended to Online VGU, a state-of-the-art online higher education initiative that aims to deliver new-age degrees to learners with the promise of quality, flexibility, and accessibility. Get access to transformative knowledge at your comfort and the stellar credibility of one of the most renowned Universities in the country.

Why choose us?

Online Programme Entitled by UGC
(Certificate awarded by VGU Jaipur, rated A+ by NAAC.)



Bespoke Industry-ready specialisation
(Make yourself industry ready by learning new-age future skill specialisations)



Self-paced online degree
(Study while working. Learn from anywhere with optimum flexibility)



Mentorship with Corporates
(Have corporate coaches, Industry experts, and faculties as your mentors)



Live Sessions by Seasoned Faculties
(Enrich yourself with online classes conducted by Experienced faculties)



AI Based Virtual Proctored Examination
(Appear in the Examination from any place through online)

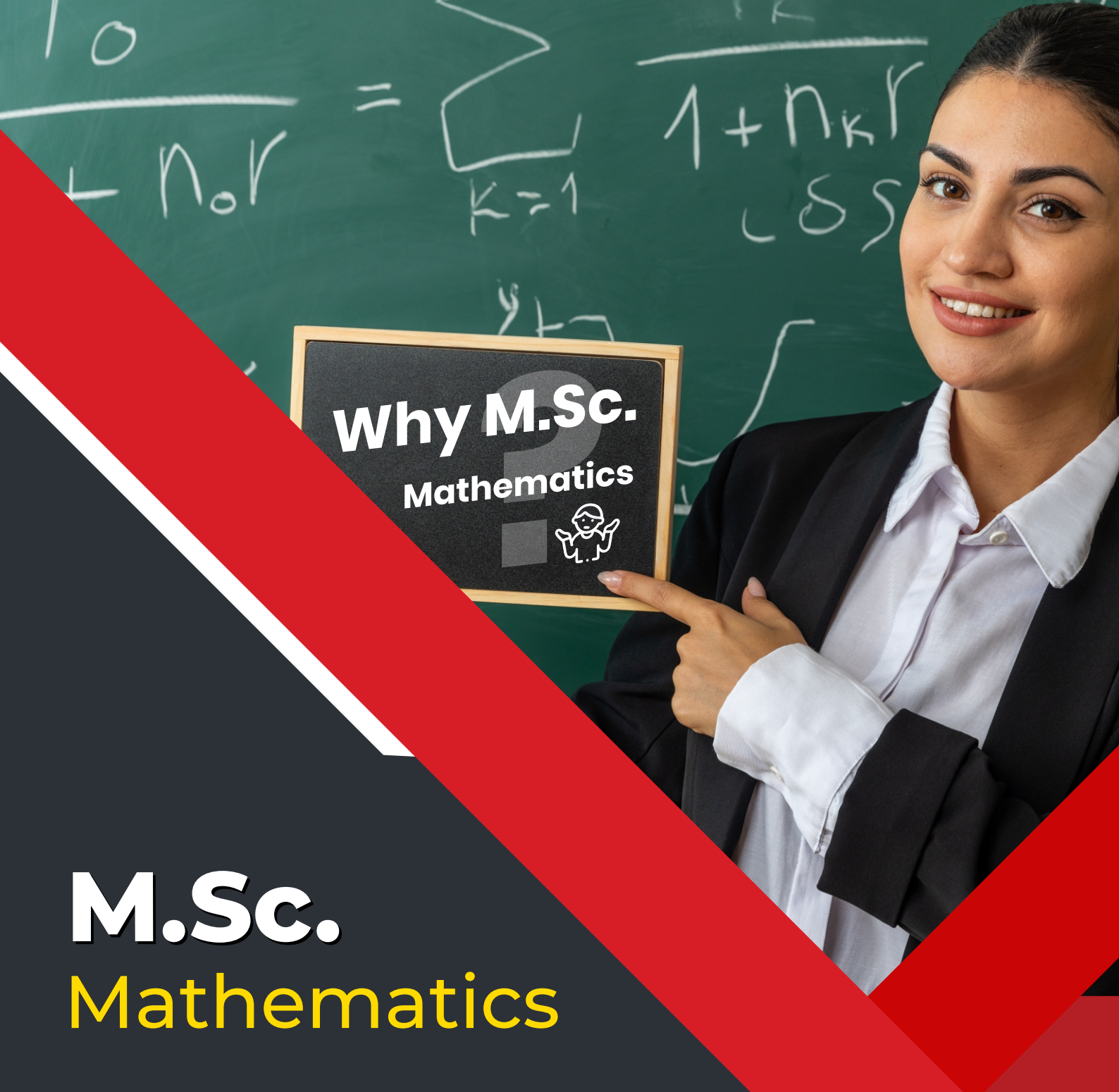


Career Support
(Get Career guidance from Eminent Industry Professionals)



Dedicated Learner Support Service
(Personalized support through dedicated learner support team)





**Why M.Sc.
Mathematics**

M.Sc. Mathematics

The two-year Online M.Sc. Mathematics degree program offers deeper knowledge of advanced mathematics. Our M.Sc. Mathematics covers a wide range of topics such as geometry, calculus, algebra, number theory, differential equations, etc. This online post graduate's degree provides a convenient platform for individuals to deepen their mathematical expertise, fostering opportunities in fields such as academia, research, data science, and industry, while allowing for flexible learning tailored to individual schedules





Career Avenues

- Data Scientist
- Statistical Consultant
- Research Analyst
- Actuarial Analyst
- Risk Analyst
- Senior Data Scientist
- Lead Statistician
- Research Manager
- Quantitative Analyst
- Chief Data Officer

Eligibility

Graduates with BA/Bsc degree with Mathematics as one of the three main subjects

Duration

2 Years/24 Months (4 Semesters) 4 yrs Maximum duration for completion

Academic Fee

₹ 16,000 / Semester
For National Applicant

₹ 32,000 / Semester
For International Applicant

Note : Examination Fee Payable **₹ 1500/-** Per Semester For Indian Learner
Examination Fee Payable **₹ 3000/-** Per Semester For International Learner



Semester 1

Name of the Subject

Credits

Advanced Abstract Algebra	4
Topology	4
Integral Transforms	4
Special Functions	4
MATLAB	2
Differential Geometry	4
or	
Object Oriented Programming with C++ with Theory and Lab	

TOTAL

22



Semester 2

Name of the Subject

Credits

Mathematical Programming	4
Advanced Numerical Analysis	4
Integral Equations and Calculus of Variations	4
Discrete Mathematical Structures	4
Numerical Analysis Lab – I	2
Functional Analysis	4

or

Computer System Organization

TOTAL

22



Semester 3

Name of the Subject

Credits

Advanced Linear Algebra	4
Operations Research	4
Tensor Analysis	4
Choose any one from list of DSE Courses	4
Choose any one from list of DSE Courses	4
Numerical Analysis Lab – II	2

TOTAL

22



Semester 4

Name of the Subject

Credits

Project 8
 Seminar 1
 LaTeX Lab 1
 Choose any one from list of DSE Courses 4
 Choose any one from list of DSE Courses 4
 Choose any one from list of DSE Courses 4

8
1
1
4
4
4

TOTAL

22

GRAND TOTAL : 88

LIST OF DEPARTMENT SPECIFIC ELECTIVE COURSES

S. No.

Department Specific Elective

- | | |
|---|---|
| 1 | Fluid Mechanics |
| 2 | Mathematics in Multimedia |
| 3 | Mathematical Modeling |
| 4 | Wavelet Analysis |
| 5 | Fuzzy Sets and Applications |
| 6 | Cryptography |
| 7 | Mathematical Statistics |
| 8 | Differential Equation and Finite Element Analysis |

Academic Delivery Mechanisms



Live, Interactive Lectures
by seasoned faculties



Industry Expert Sessions
and Webinars



Pre. Recorded AV Content
for Flexible Learning



Asynchronous Discussion Forum
to Inculcate Peer Learning



Gamified Quizzes, MCQ's, Case
Studies, Simulations & Projects



Flexibility to Learn Anytime,
Anywhere through VGU-LMS



24x7 Learner Support
Center & Mentors

Internal ≡ Assessment

Internal Assessment (30 Marks)

- ▶ Assignment 1 (10 Marks)
- ▶ Assignment 2 (15 Marks)
- ▶ Participation in overall Activities (5 Marks)

End Term ≡ Examination

End Term Examination (70 Marks)

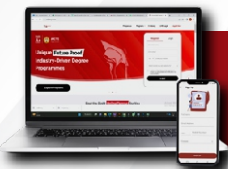
- ▶ 49 MCQs (1 mark each)
- ▶ 3 Subjective Questions (7 marks each)



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