



**VGU**

**NAAC**  
**GRADE A+**  
ACCREDITED UNIVERSITY

**ON. VGU**

ONLINE VGU  
Entitled by UGC

**YOUR  
EQUATION TO  
EXCELLENCE**

**ONLINE**

**M.Sc.**

**Mathematics**



**UGC**  
Entitled



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# ARISE, AWAKE

and stop not till the  
**goal is reached!**

*~ Our Guiding Mantra*

# Founder Speaks



At Vivekananda Global University, we believe that education is the cornerstone of national progress. With this conviction, we have created an ecosystem that nurtures innovation, ethics, and excellence in every learner. Through our Online and Distance Education platforms, our aim is to ensure that no learner is left behind in the journey toward transformation. Education must empower and at VGU, that power is now just a click away.

## Dr. K.R. Bagaria

Ex-Member, RPSC.  
Founder & Vice Chairperson, VGU



## Dr. K. Ram, IPS (Retd.)

Chief Patron, VGU

*Education is about building a meaningful life. With Online VGU, we ensure that the power of knowledge reaches even the remotest parts of our nation. We aim to empower minds and inspire futures, regardless of where our learners begin their journey.*



## Mr. M.R. Bagaria, RAS (Retd.)

Patron, VGU

*In today's rapidly evolving world, the way we learn must evolve as well. Online education is a necessity that empowers individuals to take ownership of their growth, regardless of place or time. At VGU, we believe that true education is not confined to classrooms, but thrives where there is a will to grow.*



## Er. Onkar Bagaria

CEO & Trustee, VGU

*The world is changing faster than ever—and so must education. Online VGU is our way of bringing global quality learning to every home worldwide. It's flexible, it's affordable, and most importantly, it's yours. The future belongs to those who dare to upgrade themselves—and we're here to support that dream.*



## Dr. Lalit K. Panwar, IAS (Retd.)

Chairperson, VGU

*In a time when technology is transforming education, VGU leads with accessible, inclusive, and flexible online programs. I take pride in our commitment to shaping future-ready professionals through a student-centric, digital-first approach.*



## Er. Anil Bagaria

Dy director, VGU

*At VGU, our mission is to create an ecosystem that nurtures creativity, critical thinking, and leadership preparing our students to become global change makers. With dedication to excellence and collaboration, we are shaping the future of society and turning the aspirations of our learners into achievements.*



## Guided by Vision, Grounded in Values

# Leadership Speaks



**Prof. N. D. Mathur**

President, VGU

*At VGU, we are committed to academic excellence, innovation, and inclusion. Our online programs are designed with rigorous academic frameworks and practical relevance, ensuring that our learners receive nothing less than the best—wherever they are.*



**Prof. D.V.S. Bhagavanulu**

Pro President, VGU

*VGU is redefining the way education is delivered in today's fast-evolving world. At Online VGU, we are committed to fostering a dynamic learning environment that empowers students to excel and become leaders in their respective fields.*



**Dr. Praveen Choudhry**

Registrar, VGU

*VGU is proud to extend its legacy into the digital space through Online VGU. Our online programs are thoughtfully designed to maintain academic rigor while providing the accessibility and support required for success in today's fast-paced world.*

“

**Inspired by  
Vision,  
led by  
Principles**



**Dr. Arvind Kumar Singh**

Director, CDOE, VGU

*Education should meet learners where they are. Through Online VGU, we offer mentorship-led learning, interactive content, and industry-aligned courses to help learners thrive in both local and global landscapes. We welcome every aspirant to a space where quality meets convenience.*



**Mr. Deepak Bishnoi**

Dy. Registrar, CDOE, VGU

*Online VGU represents our vision of a learner-centric, technology-enabled education system. We understand the evolving needs of Learners and we are here to support them with responsive academic services, engaging content, and a user-friendly digital platform.*

# ABOUT VGU

North India's Youngest and Fastest Growing  
NAAC A+ Multidisciplinary University

Established in 2012 under the Bagaria Education Trust in Jaipur, Rajasthan, Vivekananda Global University (VGU) delivers holistic education meeting global standards. Its 31-acre campus fosters innovation, research, and entrepreneurship, developing individuals with critical thinking and social responsibility.

Accredited with an A+ grade by NAAC, VGU offers over 60+ programs across 14 disciplines, including Engineering, Management, Law, Design, Agriculture, Commerce, Technology, and Allied Health Sciences. Recognized by UGC, AICTE, BCI, COA, and PCI, the university ensures quality education.

In October 2022, VGU launched the Centre for Distance and Online Education (CDOE), one of the pioneering centres in Rajasthan, offering UGC-Entitled Online Degrees and UGC-Approved Open & Distance Learning Degrees. Today, CDOE serves a community of over 10,000 learners worldwide, providing flexible and accessible education.

With a student body exceeding 20,000 across various modes and an alumni network of over 50,000 globally, VGU exemplifies a global university adapting to modern educational demands.



Located in  
Jaipur, Rajasthan



Established in 2012



Accredited with  
NAAC A+ Grade in  
the First Cycle



Spread Across a  
31-Acre Modern  
Urban Campus



Offers 60+ Career-  
Focused Programs  
Across 14+ Disciplines



Recognized by UGC,  
AICTE, BCI, COA, and  
PCI



Home to 20,000+  
learners in oncampus,  
online, and distance  
mode



Backed by a Strong  
Alumni Network of  
50,000+ Graduates  
Across the Globe



# ABOUT CDOE

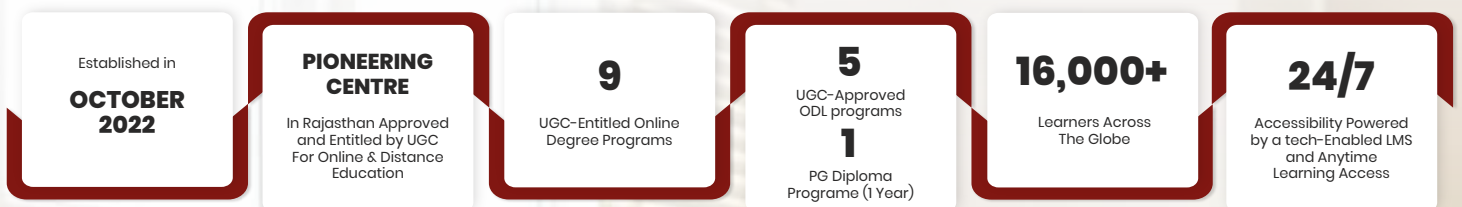
Democratizing Higher Education Through Flexibility, Affordability and Accessibility

The Centre for Distance and Online Education (CDOE) at Vivekananda Global University was established in October 2022 with a mission to democratize higher education through flexibility, technology, and quality.

As one of the pioneering centres in Rajasthan, offering UGC-Entitled Online Degrees and UGC-Approved Open & Distance Learning Degrees. CDOE is redefining access to education for learners across the globe.

Currently offering 09 UGC-Entitled Online Degree programs and 05 UGC-Approved Open and Distance Degree programs across high-demand domains such as Management, IT, Journalism, and Arts, CDOE integrates digital tools, live interactions, and learners-centric pedagogy to deliver a seamless and engaging academic experience.

Backed by the academic legacy of VGU, CDOE serves a vibrant and growing community of 10,000+ national and international learners, enabling them to pursue career-aligned education without geographical or economic limitations.



# WHY CHOOSE Online VGU?

Online VGU, a part of the Centre for Distance and Online Education, is the digital initiative of Vivekananda Global University—empowering over thousands of learners to access the same trusted VGU education with greater flexibility, affordability, and global reach.



## UGC-ENTITLED & NAAC A+

Your Degree Is Recognized Globally And By All Major Recruiters.



## INDUSTRY-ORIENTED PROGRAMS

Vast Elective Pool in Digital Marketing, FinTech, AI, Data Science, Psychology & more.



## CAREER-DRIVEN APPROACH

Internship Opportunities, Career Mentorship, Resume Building, And Placement Assistance.



## GLOBAL ACCESSIBILITY

Programs Are Available To Study Globally.



## MODERN LMS

Mobile-Friendly Learning on-the-go with 24x7 Access.



## ACCREDITATIONS

- UGC Entitled Online Degrees
- NAAC A+ Accredited
- AICTE Approved Programs
- QS World University Rankings – Asia 2025: Ranked in the 681-700 band Globally Accepted



## FLEXIBLE LEARNING

Study At Your Own Pace—Anytime, Anywhere. Ideal For Working Professionals And Freshers.



## EXPERT MENTORS

Learn from PhDs, domain experts, and industry veterans.



## AFFORDABLE FEE STRUCTURE

Flexible EMI options and high ROI.



## DUAL DEGREE OPPORTUNITY

Pursue two degrees simultaneously one on-campus and one online of same level



## 360° CAREER ASSISTANCE

Career Assistance During/ After The Completion Of Respective Degree



## RECOGNITIONS FROM RENOWNED MEDIA HOUSES & EDUCATION PARTNERS

- Careers360 Young University Rankings
- Outlook-ICARE Rankings 2024
- Times B School

# RECOGNITIONS AND ACCREDITATIONS



UGC Entitled Online Degrees



NAAC A+ Accredited



AICTE Approved Programs



QS World University Rankings Asia 2026:

Ranked  
**666**  
AMONG ALL UNIVERSITIES IN ASIA

**#200**  
IN SOUT ASIA  
**#95**  
IN INDIA



DEI & SI Rankings 2024

Ranked  
**3<sup>rd</sup>**  
in India  
**1025** WORLDWIDE BY



**Outlook**  
ICARE RANKING  
2024

Ranked  
**3<sup>rd</sup>**

Private University  
In Rajasthan  
ICARE Ranking 2024



Graduate Outcomes  
World Ranking 2024

**DIAMOND LEAGUE**

Ranked  
**#740**  
Globally

# EQUIVALENCE OF DEGREE WITH REGULAR DEGREE



ज्ञान-विद्यालय विभूषण

प्रो. राजनीश जैन  
सचिव

Prof. Rajnish Jain  
Secretary



सत्यमेव जयते

विश्वविद्यालय अनुदान आयोग  
University Grants Commission

(विद्या विभाग, भारत सरकार)  
(Ministry of Education, Govt. of India)

बहादुरशाह जफर मार्ग, नई दिल्ली-110002  
Behadur Shah Zafar Marg, New Delhi-110002

Ph.: 011-23236288/23239337

Fax : 011-2323 8658

E-mail : sacugc@nic.in

F. No.3-5/2022(DEB-III)

August, 2022

**PUBLIC NOTICE**

02 SEP 2022

**Equivalence of degree obtained through ODL and Online mode with degree obtained through conventional mode**

The Regulation 22 of the University Grants Commission (Open and Distance Learning Programmes and Online Programmes) Regulations, 2020 stipulates as under,

**"Equivalence of qualification acquired through Conventional or Open and Distance Learning and Online modes.-** Degrees at undergraduate and postgraduate level in conformity with UGC notification on Specification of Degrees, 2014 and post graduate diplomas awarded through Open and Distance Learning mode and/or Online mode by Higher Educational Institutions, recognised by the Commission under these regulations, shall be treated as equivalent to the corresponding awards of the Degrees at undergraduate and postgraduate level and post graduate diplomas offered through conventional mode."

This is for information of the general public, students and other stakeholders.

(Rajnish Jain)

# M.Sc.

## Mathematics

Our MSc in Mathematics program is for analytical minds eager to dive into both the abstract and applied realms of mathematical science. With a curriculum that spans real analysis, algebra, programming in Python, and operations research, this program builds logical reasoning and computational proficiency.

### What Makes Online VGU's M.Sc. Mathematics Special?

This program's USP lies in its rigorous yet application-driven approach. Students benefit from advanced subjects like Numerical Methods, Tensor Analysis, and Mathematical Modeling, combined with modern tools like LaTeX and Python labs. A semester-long project sharpens their research and problem-solving skills, making them ideal candidates for careers in data science, research, actuarial science, and academic roles.

### Salient Features:

**Coursera**

#### | Exclusive Coursera Premium – 6 Months Access

Get exclusive access to Coursera's premium platform and learn from top global institutions. Explore 10,000+ courses to build real-world, job-ready skills.

*Access is time-bound as per university policy.*

### Career Tracks Open to You:

- Data Analyst / Data Scientist
- Researcher / Statistician
- Actuarial Science Professional
- Operations Research Analyst
- Quantitative Analyst (Finance)
- Teaching / UGC-NET & PhD
- Government & PSU Roles



## Program Overview



### Duration

2 Years/24 Months (4 Semesters)



### Eligibility

Graduate With B.A / B.Sc./ Engineering Degree With Mathematics As One Of The Three Main Subjects.



### Total Credits

88

## Fees Structure

Category	Total Program Fees	Semester Fees Payment Plan	Annual Fees Payment Plan with 10%Concession	One Installment Fees Payment Plan with 15%
Indian Nationals	₹ 72,000	₹ 18,000	₹ 32,400	₹ 61,200
Foreign Nationals	₹ 144,000	₹ 36,000	₹ 64,800	₹ 122,400

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

## PROGRAM STRUCTURE

### KNOW YOUR CREDITS

### Semester 1

Title	Credits
➤ Advanced Abstract Algebra	4
➤ Topology	4
➤ Integral Transforms	4
➤ Object Oriented Programming with C++ (Theory & Lab)	4
➤ Special Functions	4
➤ MATLAB	2
<b>Total Credits</b>	<b>22</b>

## Semester 2

Title	Credits
➤ Mathematical Programming	4
➤ Advanced Numerical Analysis	4
➤ Integral Equations and Calculus of Variations	4
➤ Discrete Mathematical Structures	4
➤ Numerical Analysis Lab	2
➤ Computer System Organization	4
<b>Total Credits</b>	<b>22</b>

## Semester 3

Title	Credits
➤ Advanced Linear Algebra	4
➤ Tensor Analysis	4
➤ Fluid Mechanics	4
➤ Advance Differential Equations	4
➤ Mathematics in Multimedia	4
➤ Mathematical Programming Lab	2
<b>Total Credits</b>	<b>22</b>

## Semester 4

Title	Credits
➤ Project	8
➤ Artificial Intelligence	2
➤ Mathematical Statistics	4
➤ Operation Research	4
➤ Partial Differential Equations	4
<b>Total Credits</b>	<b>22</b>

**Total Course Credit = 88**

*\*This scheme is applicable only for the July 2026–27 batch.*



# OUR PEDAGOGY & LEARNING EXPERIENCE

At Online VGU, our pedagogy blends innovation with learner-centric design. Through a robust Learning Management System (LMS), we offer flexible, engaging, and personalized learning experiences that cater to diverse learner needs—from all walks of life.

**Personalized**  
Custom Learning Paths

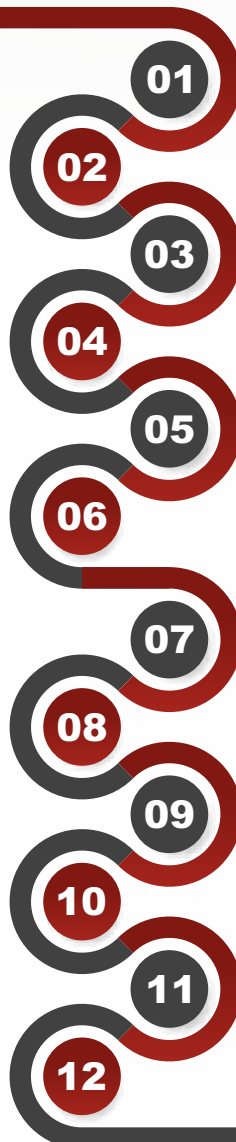
**Accessible**  
Access Anytime, Anywhere

**Engaging**  
Quizzes, Videos & Forums

**Collaborative**  
Peer Projects & Discussions

**Measurable**  
Smart Assessments

**Enabling**  
UGC-Aligned Resources



**Interactive**  
Multimedia-Rich Course Design

**Flexible**  
Live & Recorded Classes

**Supportive**  
Academic & Tech Support

**Adaptive**  
Multilingual AI Lectures

**Guided**  
Faculty Interaction

**Empowering**  
Learner-Focused Approach

# ASSESSMENT & EVALUATION

At Online VGU, the assessment process is designed to ensure academic integrity, learner convenience, and fair evaluation. Combining cutting-edge technology with learner-centric practices, our system supports continuous assessment and transparent examination outcomes. Aligned with the UGC's guidelines for online learning, we emphasize both knowledge acquisition and its real-world application. Our examination approach, enhanced by AI proctoring and expert support, gives learners the flexibility they need without compromising on quality or rigour.

## Key Highlights of Our Examination & Evaluation Models :



### 30:70 Assessment Model

30% internal assessments and 70% end-term examinations for balanced evaluation.



### Hybrid Virtual Proctored Examination System

Exams are monitored through a combination of on-campus human proctors and AI-enabled remote proctoring, ensuring exam integrity regardless of location.



### Pre-Exam Preparation & Support

Mock exams, training sessions, and demo walkthroughs are conducted to familiarize learners with the examination environment.



### Relative Grading System

Grading is based on a relative performance scale to ensure fairness across diverse learner groups.



### Robust Multi-Stakeholder Support System

Dedicated assistance is provided before, during, and after exams by our tech support team, learner support team, examination and evaluation cell, live proctors etc.



### Continuous Updates

Semester-long updates and coordination through course coordinators and academic teams keep learners well-informed.

# KNOW YOUR DEGREE CERTIFICATE



Programme Name  
Programme Tenure  
Mode Of Delivery

Learner Photo  
Name Of The Learner  
Academic Year  
Convocation Year



Sample

# TESTIMONIAL



**Khushboo Sethi**

Deputy Manager, Training,  
ITM Business School

M.Sc. Mathematics | Batch: July 2024

I'm Khushboo Sethi from Mumbai, Maharashtra. I am currently working as Deputy Manager, Training at ITM Business School, with 15 years of professional experience. Enrolling in the M.Sc. Mathematics program with Online VGU has been a fulfilling step in aligning with my passion for the subject. The flexibility of the online format allows me to continue working while deepening my understanding of mathematics—a subject I've always been drawn to. For those considering Online VGU, know that it's a platform where personal growth and academic rigor go hand in hand.

**“2 out of every 3 VGU learners are employed while studying!”**

## Working With Top Brands

Our learners are building their careers with some of the most reputable employers in India and globally. Here are just a few of the standout companies where they work:



and many more...



# HOW TO APPLY?



**Visit:** <https://onlinevgu.com/>  
& Locate the Registration Portal

Fill Your Details And Pay The  
**\*INR 1000/-** Registration Fee



Pay The **Academic Fee** For The first  
Semester/Year Or Full Program

Upload All Mandatory **Documents**  
& Submit Your Application



The University Will **Verify** Your  
Documents To Confirm Your  
Admission

**\*T&C Apply**

INR 1000/- Registration Fees is Non Refundable



**CENTRE FOR DISTANCE AND ONLINE EDUCATION**

Vivekananda Global University, Jaipur Rajasthan

LOG IN & BE READY FOR A  
**FUTURE OF LIMITLESS  
LEARNING** | [www.onlinevgu.com](http://www.onlinevgu.com)

## Contact Us

### ADMISSION SUPPORT

**ADMISSION QUERIES:** +91 9220315527  
**ADMISSION HELPLINE:** +91 9220315529

**TIMINGS:** 24\*7  
**EMAIL:** [admissions@onlinevgu.com](mailto:admissions@onlinevgu.com)

### LEARNER SUPPORT

**POST ADMISSION/ LEARNER SUPPORT  
SUPPORT HELPLINE:** +91-9549086333

**Timings:** 9:30 AM TO 5:30 PM

**Email:** [srm@onlinevgu.com](mailto:srm@onlinevgu.com) | **Website:** [www.onlinevgu.com](http://www.onlinevgu.com)

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