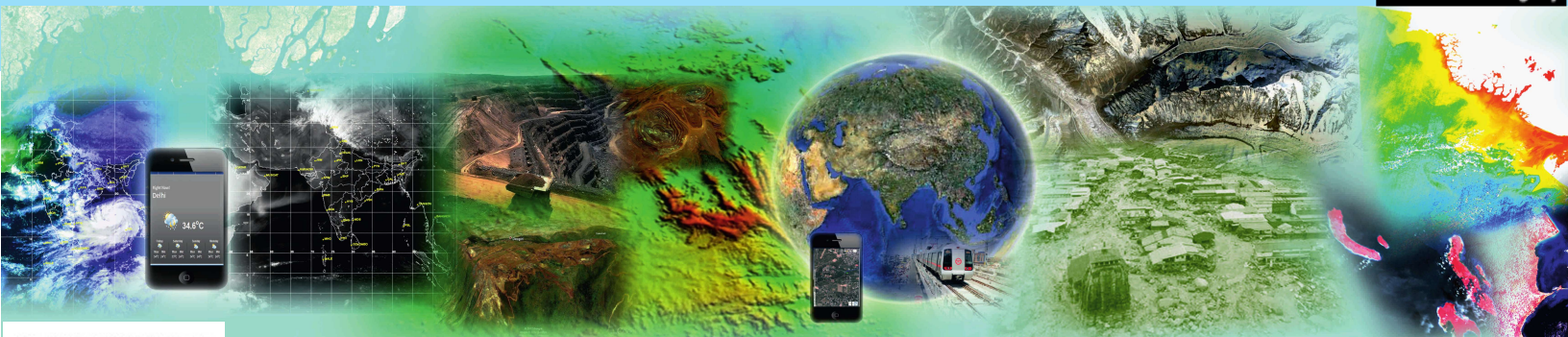




Post Graduate Certificate in **GE_oINFORMATICS** (PGCGI)



- **Duration** : Minimum 6 months and maximum 2 years
- **Eligibility** : Graduation from a recognised University

Admission open for both January and July cycles

TARGET GROUPS

**Teaching
through open &
distance learning
mode**

- Defence and law enforcement personnel
- Faculty members from higher education institutes and School teachers interested to teach related courses
- Working professionals with little or no prior experience
- Graduates interested to develop skills to work with geospatial data

Salient Features

- Designed and developed with the help of experts from C-DAC, DRDO, DST, IITs, ISRO, IITM, several institutes/universities and industries.
- Covers aspects of Geospatial data, Mapping, GIS, GNSS, Remote Sensing, Visual Image Interpretation, Digital Image Processing, Spatial Analysis and Applications.

Employment Prospect

- Government Organisations
- Private Industries
- R & D Institutions

In the field of:

- Natural Resources Management
- Natural Hazards and Disaster Management
- Environmental Management
- Urban and Rural Planning
- Geospatial Education



How to Apply : Visit <https://ignouadmission.samarth.edu.in> or scan the code



Indira Gandhi National Open University
Maidan Garhi, New Delhi
Website: www.ignou.ac.in

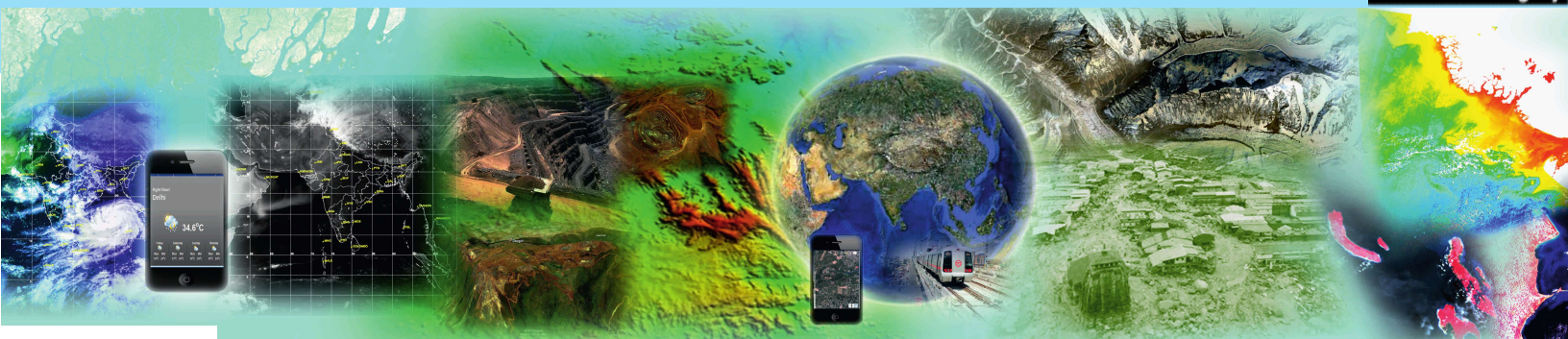
For Further Information, Please Contact:

The Director
School of Sciences
Ph.: 011-29532167/29572832
Fax: 011-29532167
E-mail: sos@ignou.ac.in

Dr. Omkar Verma
Programme Coordinator - PGCGI
School of Sciences
Ph.: 011-29571675
E-mail: omkarverma@ignou.ac.in

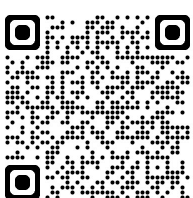


Post Graduate Diploma in **GE^oINFORMATICS (PGDGI)**



- **Duration** : Minimum 1 year and maximum 3 years
- **Eligibility** : Graduation from a recognised University

Admission open for both January and July cycles



TARGET GROUPS

- Defence and law enforcement personnel
- Faculty members from higher education institutes and School teachers interested to teach related courses
- Working professionals with little or no prior experience
- Graduates interested to develop skills in this field

**Teaching through
open & distance
learning mode**

Salient Features

- Designed and developed with the help of experts from C-DAC, DRDO, DST, IITs, ISRO, IITM, several institutes/universities and industries.
- Covers aspects of Geospatial data, Mapping, GIS, GNSS, Remote Sensing, Image Interpretation, Digital Image Processing, Spatial Analysis & Modelling, Applications and Introduction to R programming

Employment Prospect

- Government Organisations
- Private Industries
- R & D Institutions

In the field of:

- Natural Resources Management
- Natural Hazards and Disaster Management
- Environmental Management
- Urban and Rural Planning
- Geospatial Education

How to Apply : Visit <https://ignouadmission.samarth.edu.in> or scan the code



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For Further Information, Please Contact:

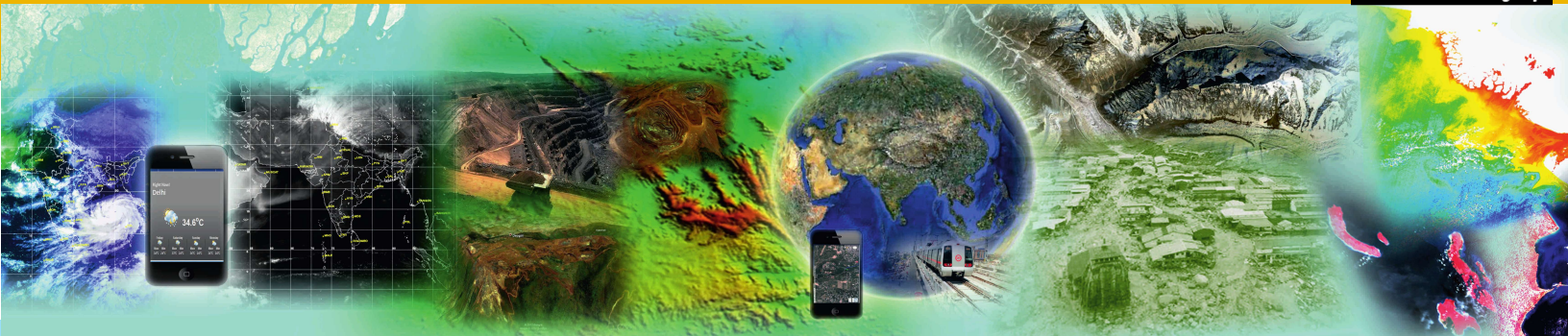
The Director
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Ph.: 011-29532167/29572832
Fax: 011-29532167
E-mail: sos@ignou.ac.in

Dr. Kakoli Gogoi
Programme Coordinator - PGDGI
School of Sciences
Ph.: 011-29571678
E-mail: kakoligogoi@ignou.ac.in

Join

M.Sc.

GEOINFORMATICS (MSCGI)



- **Duration** : Minimum 2 years and maximum 4 years
- **Eligibility** : "Graduation in Science/ Engineering/ Technology/ Architecture/ Planning/ Computer Application/ Information Technology / Medical & Allied fields/ Commerce/ Business Administration/ Management" Or "Graduation with Geography/ Mathematics/ Statistics/ Economics/ Anthropology/ Archaeology as one of the subjects" from a recognised University



Admission open for both January and July cycles

TARGET GROUPS

**Teaching through
open & distance
learning mode**

- Defence and law enforcement personnel
- School teachers and Faculty members from higher education institutes interested in teaching relevant courses
- Working professionals with little or no prior experience
- Graduates interested in developing skills in this field

Salient Features

- Designed and developed with the help of experts from C-DAC, DRDO, DST, IITs, ISRO, IITM, DUK, several institutes/universities & industries.
- Covers aspects of Basics & advances in Remote Sensing & GIS, Techniques in DIP, Spatial Analysis & Modelling, Emerging Applications, Geospatial programming, Artificial Intelligence & Machine Learning, Research Methodology & Professional Skills.

Employment Prospect

- Government Organisations
- Private Industries
- R & D Institutions

In the field of:

- Natural Resources Management
- Natural Hazards and Disaster Management
- Environmental Monitoring & Management
- Urban and Rural Planning
- Geospatial Education



How to Apply : Visit <https://ignouadmission.samarth.edu.in> or scan the code



Indira Gandhi National Open University
Maidan Garhi, New Delhi
Website: www.ignou.ac.in

For Further Information, Please Contact:

The Director
School of Sciences
Ph.: 011-29532167/29572832
Fax: 011-29532167
E-mail: sos@ignou.ac.in

Prof. Benidhar Deshmukh &
Prof. Meenal Mishra
Programme Coordinators - MSCGI
School of Sciences
Ph.: 011-29571677/76/75/78/79
E-mail: pgcgi@ignou.ac.in

Admission Open for July 2023 Session

Master of Science (Physics)(MSCPH)



Admission Link:

<https://ignouadmission.samarth.edu.in/>



The programme aims to offer quality higher education at the post-graduate level in physics to address the requirements of learners aspiring for a career in physics like teaching, and research in frontier areas.

Duration : Min. 2 years; Max. 4 years

Fee : Rs. 14,000/- per Annum

Total Credits : 72 Credits

Medium : English

Mode : ODL (Semester system)

Age : No bar.

Admission: January/July Cycle

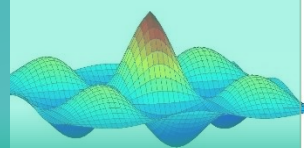
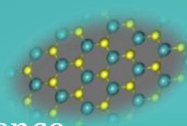
Examination Mode: Annual

Eligibility:

- Graduates with Major/Honours in Physics
- Graduates with a B.Sc. Degree (including IGNOU B.Sc. Programme under CBCS) with Physics and Mathematics
- Graduates with a B.Sc. Degree of IGNOU or any recognized Open University with a minimum of 32 Credits of Physics, and Mathematics as one of the subjects

Objectives:

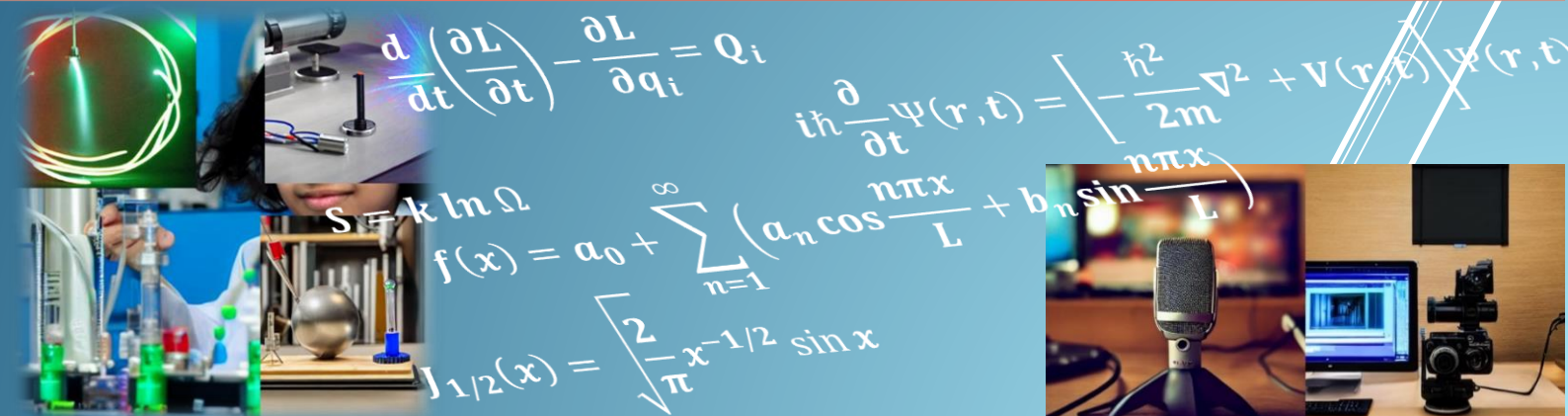
- Build a strong foundation in core areas of Physics
- Provide exposure to interdisciplinary nature of modern day science
- Impart adequate training in practical skills and hands-on laboratory experience
- Equip learners with skills to carry out computer-aided investigations in the physical sciences



Major highlights of the programme:

- The programme is designed and developed by renowned physicists and leading experts from all across the country
- Easy online access to Self-Learning Material through eGyankosh
- Ready on-line support on WEAS portal.

$$F = ma$$



For Further Information, Contact:
The Director
School of Sciences, IGNOU
Ph. No.: 011-29572832
Email: sos@ignou.ac.in

Programme Coordinators:
Dr. Subhalakshmi Lamba
Dr. M Boazbou Newmai
Email : mscph@ignou.ac.in
Ph. No.: 011-29572814/2839

Scan QR code



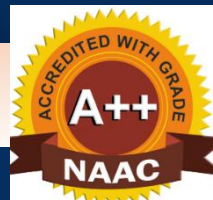
Admission Open for January 2024 Session

Master of Science (Zoology)(MSZOO)



Admission Link:

<https://ignouadmission.samarth.edu.in/>



The post-graduate programme aims to offer quality education in Zoology as well as to encourage students to pursue their career in teaching and research.

Programme details:

- Duration: Minimum 02 Years, Maximum 04 Years
- Total Credits: 80
- Fee Structure: Rs. 20,000/- per annum (Pro rata fee for lateral entrants into Second Year)
- Medium of Instruction: English
- Examination Mode: Semester-wise
- Admission cycle: July and January
- Registration : Annual
- Study Materials: Print and Digital

Eligibility:

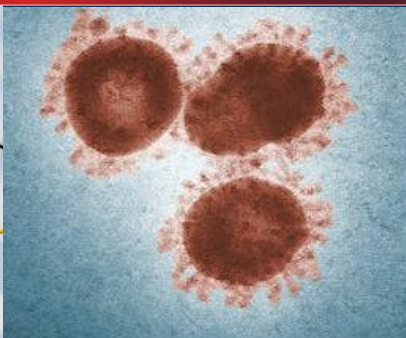
- ❖ The candidate should have passed the B.Sc. (Hons.)/B.Sc. (Major) in Zoology.
or
- ❖ B.Sc. (General/CBCS) with Zoology as one of the subjects.
- ❖ The reservation policy of GOI will be applicable.

Objectives:

- To impart higher education in the area of Zoology.
- To provide an opportunity to the learners to upgrade their qualifications.
- To provide opportunities to the learners in building their careers in research and teaching in Zoology.
- To inculcate the spirit of resource conservation and love for nature.
- To distinguish between the structure, function, behavior and evolution of different animals.
- To provide knowledge and skills in applied areas of Zoology.

Special Features of MSCZOO Program

- ❖ **MSCZOO is being offered with specialization in Entomology.**
- ❖ **Students have to do Project/Dissertation work in the IV semester of the programme.**



For Further Information, Contact:
The Director
School of Sciences, IGNOU
Ph. No.: 011-29572832
Email: sos@ignou.ac.in

Programme Coordinators:
Prof. Neera Kapoor,
Dr. Siya ram
Email : msczo@ignou.ac.in
Ph. No.: 011-29572810/2842

Scan QR code



INDIRA GANDHI NATIONAL OPEN UNIVERSITY

M.SC. IN GEOGRAPHY

(School of Sciences)

PROGRAMME OBJECTIVES

- to enable the learners with a better understanding of earth and its processes;
- to orient the learners towards geographical research and to prepare them for the current and emerging job opportunities.

Programme Code: MSCGG

Eligibility: Graduate in any Stream

Medium of Instruction: English

Duration: Minimum 2 years & Maximum 4 years

Total Credits: 80

Examination Mode: Annual

FEE
Rs.
14000/-
PER ANNUM

JOB OPPORTUNITIES

Teaching and Research, Cartography and Mapping, Urban and Regional Planning, Population and Demographic Studies, Natural Resource Management, Environmental Management and Sustainability, Geospatial Analysis, Tourism and Recreation Industries, Administration and Marketing, Disaster Management, Transportation and Logistics Industries

HOW TO APPLY: Visit <https://ignou.samarth.edu.in/index.php/site/login>

For more details, visit IGNOU website on www.ignou.ac.in

PROGRAMME COORDINATORS

Dr. Satya Raj satyaraj@ignou.ac.in, Ph. 011-29571672

Dr. K.Nageswara Rao knrao@ignou.ac.in, Ph. 011-29571680

Dr. Vishal Warpa vishalwarpa@ignou.ac.in, Ph. 011-29571674

MSC IN MATHEMATICS

WITH APPLICATIONS IN COMPUTER SCIENCE

OBJECTIVES

To emphasis the relevance and usefulness of mathematics from an application point of view

To equip the learners with the core mathematical knowledge and training necessary for use in many application areas

To develop a work force that is equipped with the mathematical skills that are necessary in the changing industrial and economic scenario of the country

To develop human resource in emerging disciplines such as Mathematical Biology, Computational Mathematics, Mathematical Economics, etc

To promote collaborative research with industry and other user agencies

ELIGIBILITY

A graduate with
a
Major/Honours
in Mathematics .

OR

A B.A./B.Sc.
degree with
Mathematics as
one of the three
main subjects
with equal
weightage.



Minimum Duration Two Years
(Four Semesters)



Maximum Duration Four Years



Total Credits 64



Medium of Instruction English



Core Courses

The core courses are designed to provide mathematical knowledge and techniques, necessary for use in many application areas.



Elective courses

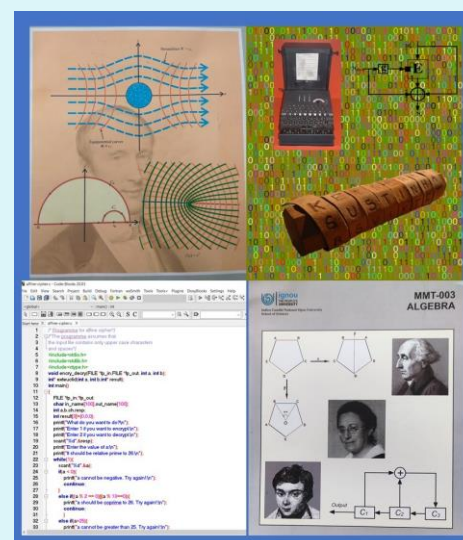
The elective courses will expose learner to applications of mathematics in the area of computer sciences.



Project

Project work is compulsory . It aims to provide hands on work experience in some area.

Scan the QR code for
the online admission



More details about the programme

<http://www.ignou.ac.in/ignou/aboutignou/school/sos/programmes/detail/165/2>

Contact details

 School of Sciences, IGNOU, New Delhi 110068, Email: mscmacs@ignou.ac.in

☎ 29572850, 29572860



BACHELOR OF SCIENCE (MATHEMATICS) BSCFMT

About the Programme:

The Programme aims to

- foster deep interest in learning mathematics and mathematical thinking.
- develop broad and balanced knowledge and understanding of definitions, concepts, principles and theorems and their proofs.
- familiarize you with suitable tools of mathematical analysis to handle issues and problems in mathematics and related areas.
- develop a range of generic skills helpful in employment, internships and social activities.

Programme Package:

- Based on UGC-FYUP Curriculum and Credit Framework for Undergraduate Programmes in accordance with NEP, 2020.
- Multiple Exits (UG Certificates, UG Diploma, UG Major and UG Honours).
- Variety of Courses such as Mathematics Discipline Specific Courses, Interdisciplinary Courses, Ability Enhancement Courses, Value-added Courses, Vocational Courses, Skill Enhancement Courses, Minor Electives.
- Print Material, Econtent, Tele-Conferencing, Interactive radio Counselling, Web-Enabled Academic Support.

Eligibility: 10+2 or Equivalent with Mathematics

Medium: English and Hindi

Mode: ODL

Fee: Rs. 6000 per annum (excludes Registration and Examination fee)

Age: No Bar

Admission: July and January Cycle



Scan here for
Admission

Programme Coordinators:

Prof. Deepika and Dr. S. Venkataraman

Contact Details: bscmaths@ignou.ac.in, 01129572850/60

For more details: www.ignou.ac.in

To Enrol visit IGNOU admission Portal:

<https://ignouadmission.samarth.edu.in>



Scan here for
Programme Details

Certificate Programme in Teaching of Primary School Mathematics (CTPM)

Age : No Bar
Duration: 6 Months
to 2 Years
Medium : English &
Hindi
Fee : Rs. 2100/-
Total
Credits : 16 Credits
Eligibility: 10th Pass

Why should I take this Programme?

- To learn about what Mathematics is.
- To discover how children learn.
- To help children enjoy and appreciate Mathematics.
- To become a better Mathematics Teacher.

Programme Objectives

- To help primary school teachers to critically look at their mathematics teaching strategies and alter them to suit their students backgrounds.
- To increase the teachers' awareness about the nature of mathematics and the need to learn it.
- To refresh the teachers about the acquisition and learning process in the context of mathematics learning.
- To create awareness amongst teachers about various interactive teaching strategies and techniques that make learning mathematics an interesting and enjoyable experience.
- To make the discourse of mathematics teaching available to a wider section of society by exposing them to the need for giving a meaning and context while learning or teaching mathematical concepts processes or skills.



Teaching of Primary School Mathematics (AMT-01) 8 Credits	Block 1	Aspects of Teaching Mathematics
	Block 2	Numbers (I)
	Block 3	Numbers (II)
	Block 4	Fractions
	Block 5	Measurement
	2 Credits worth of Project Work is Compulsory	
Learning Mathematics (LMT-01) 8 Credits	Block 1	Approaches to Learning
	Block 2	Encouraging Learning in the Classroom
	Block 3	Data and Chance
	Block 4	On Spatial Learning
	Block 5	Exploring Numbers
	Block 6	Thinking Mathematically

Admission Procedure

- Twice a year in June and July
- Admission is online through the portal <https://ignouadmission.samarth.edu.in/>

Contact: Dr. Pawan Kumar,
Email:
pawankumar@ignou.ac.in
Ph.No.: 011-29572806

SCHOOL OF SCIENCES

Eligibility Criteria

- Graduates with B.Sc. (Major/Honours) Degree in Chemistry from a recognized University.
- Graduates with a B.Sc. Degree (or equivalent) from a recognized university with Chemistry as one of three science subjects with equal weightage
- Graduates with a B.Sc. Degree from an Open University with a minimum of 20 Credits of Chemistry courses.

Total Credits:80
Semester-based programme

Programme code:
MSCANCHEM

Age: No bar
Medium: English
Fees: Rs. 23,300/- per annum

M.Sc.
(Analytical Chemistry)
on offer from
January 2024

Duration:
Minimum 2 years & Maximum 4 years
Examination Mode:
Annual

- Provides higher education opportunities to the learners in the area of Chemistry / Analytical Chemistry
- Provides an opportunity to the learners to find suitable jobs in analytical / industrial laboratories
- Provides an opportunity to the learners to upgrade their qualifications
- Provides the opportunities to the learners in building their careers in research and teaching in Chemistry / Analytical Chemistry

How to Apply: Visit <https://ignouadmission.samarth.edu.in>

For further information

IGNOU's website:
www.ignou.ac.in

The Director
School of Sciences
Ph.: 011-29532167/29572832
Fax: 011-29532167
E-mail: sos@ignou.ac.in

Programme Coordinators
Prof. Sunita Malhotra & Prof. Lalita S. Kumar
Ph:011-29572835 011-29572808
Email: smalhotra@ignou.ac.in lalitaskumar@ignou.ac.in