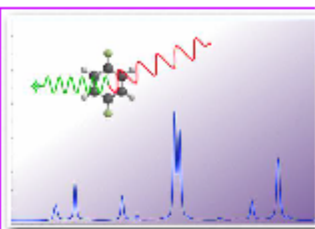




**INDIRA GANDHI NATIONAL OPEN UNIVERSITY**

**SCHOOL OF SCIENCES**



**Total Credits:80**  
**Semester-based programme**

### Eligibility Criteria

- Graduates with B.Sc. (Major/Honours) Degree in Chemistry from a recognised university.
- Graduates with a B.Sc. Degree (or equivalent) from a recognised 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.



**Programme code:**  
**MSCANCHEM**

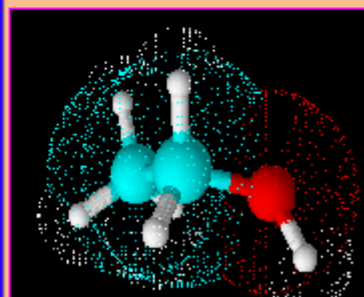
**Age: No bar**  
**Medium: English**  
**Fees: Rs. 23,300/- per annum**

**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> or scan the code**

### For further information:

IGNOU's website:  
[www.ignou.ac.in](http://www.ignou.ac.in)

The Director, School of Sciences  
Ph.: 011-29532167/29572832 fax:  
011-29532167 E-mail:  
[sos@ignou.ac.in](mailto:sos@ignou.ac.in)

Programme Coordinators  
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Ph:011-29572835 011-29572808  
Email: [smalhotra@ignou.ac.in](mailto:smalhotra@ignou.ac.in) [lalitaskumar@ignou.ac.in](mailto:lalitaskumar@ignou.ac.in)

## Master of Science in Biochemistry (MSCBCH)

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

### Objectives:

- To inculcate the concepts of biochemistry;
- To provide the knowledge and skills required by a postgraduate in biochemistry;
- To fill the gap between academia and industry with regard to demand and supply.

**Duration:** Min. 2 years; Max. 4 years

**Fee:** Rs.36,200/- per year

**Total Credits:** 80

**Medium:** English

**Mode:** ODL

**Admission:** January/July Cycle

**Examination Mode:** Annual

### Eligibility:

Learners having Bachelor's degree in Science/  
Pharmacy/ B.Tech-Biotech/  
Agriculture/Veterinary/Nursing/Medical Laboratory  
Technology/ Medical graduates with Physics,  
Chemistry and Biology subjects at 10+2 level.

### Major highlights of the programme:

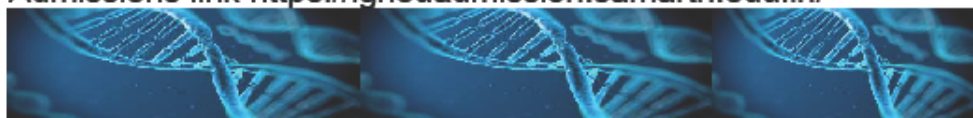
- This programme is designed and developed by leading experts in Biochemistry from all across the country.
- Easy online access to Self-Learning Material through eGyankosh
- Ready on-line support on WEAS portal.

**Programme coordinators:** Dr. M. Abdul Kareem and Dr Arvind Kumar Shakya.

**Contact:** [abdul.kareem@ignou.ac.in](mailto:abdul.kareem@ignou.ac.in), [arvind.kumar@ignou.ac.in](mailto:arvind.kumar@ignou.ac.in),

**Tel:** 011-2957-2809/2836/2834.

**Admissions link** <https://ignouadmission.samarth.edu.in/>



# Indira Gandhi National Open University



## School of Sciences

Offers



## M.Sc. (Chemistry) Programme

from January 2024 Session

### Eligibility:

- Graduates with B.Sc. (Major/ Honours) Degree in Chemistry from a recognised University.
- Graduates with a B.Sc. Degree (or equivalent) from a recognised 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 twenty Credits of Chemistry courses.



For Admission  
Scan



**Age:** No Bar

**Fee:** Rs. 20,200/- per Annum

**Duration:** Min.: 2 years

Max.: 4 years

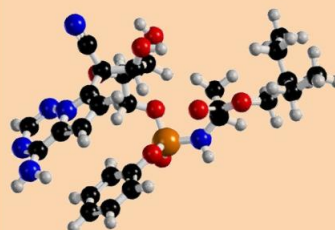
**Medium of Instruction:** English

**Mode:** Open & Distance Learning

**Credits:** 80 (20 per Semester)

**Examination:** Annual mode

**Admission:** January / July Cycle



### Contact:

The Director

School of Sciences

Ph.: 011-29532167/29572832

E-mail: [sos@ignou.ac.in](mailto:sos@ignou.ac.in)

### Programme Coordinators:

Prof. Sanjiv Kumar

011-29572823; [Sanjiv\\_sos@ignou.ac.in](mailto:Sanjiv_sos@ignou.ac.in)

Prof. Kamalika Banerjee

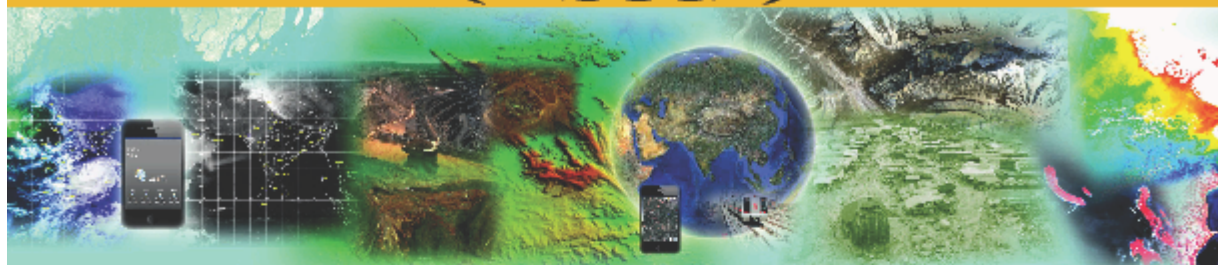
011-29572841; [Kamalika@ignou.ac.in](mailto:Kamalika@ignou.ac.in)

**Web:** [www.ignou.ac.in](http://www.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/ Geography/ Mathematics/ Statistics/ Economics/ Commerce/ Anthropology/ Archaeology/ Business Administration/ Management 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](http://www.ignou.ac.in)

## For Further Information, Please Contact:

The Director  
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Fax: 011-29532167  
E-mail: [sos@ignou.ac.in](mailto: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](mailto:pgcgi@ignou.ac.in)

# MSC IN MATHEMATICS WITH APPLICATIONS IN COMPUTER SCIENCE

## OBJECTIVES OF THE PROGRAMME

- To emphasise the relevance and usefulness of Mathematics from the point of view of applications
- To equip the learners with core mathematical knowledge and training that is useful in application areas and for higher studies in Mathematics
- To develop a workforce that is equipped with the mathematical skills necessary in the changing industrial and economic scenario of the country
- To develop a work force in the emerging disciplines such as Mathematical Biology, Computational Mathematics etc
- To promote collaborative research with the Industry and other agencies

## SALIENT FEATURES

- Worth 64 credits divided over four semesters
- Sound Mathematics background through courses tailored for applications
- Practical sessions for training in implementation of computer algorithms

## ADMISSION PROCEDURE

- Twice a year in June and July
- Admission is online through the portal <https://ignouadmission.samarth.edu.in/>
- Fee of Rs. 6900/- (subject to change) to be paid while applying online

## ELIGIBILITY

- B.Sc/BA Major/Honours degree holders in Mathematics
- (or)
- B.Sc/BA degree holders who have studied three subjects with **Mathematics as one of the subjects and with equal weightage**

## Semester 1

1. Programming and Data Structures
2. Linear Algebra
3. Real Analysis
4. Complex Analysis
5. Differential Equations and Numerical Solutions

## Semester 2

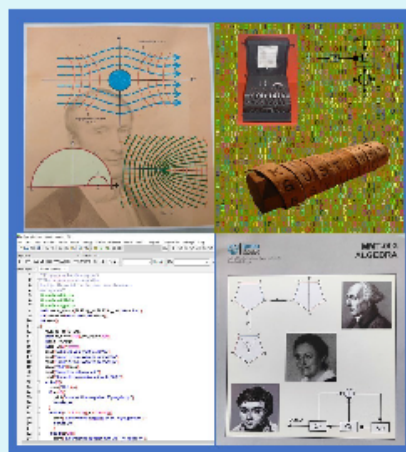
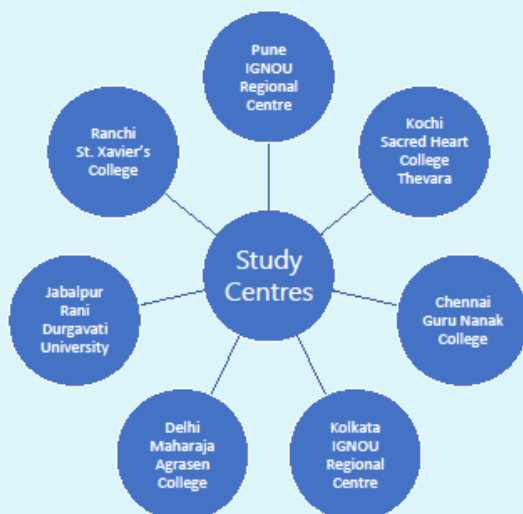
1. Algebra
2. Functional Analysis
3. Probability and Statistics

## Semester 3

1. Mathematical Modelling
2. Graph Theory
3. Design and Analysis of Algorithms
4. Image Processing and Pattern Recognition
5. Computer Graphics

## Semester 4

1. Coding Theory
2. Cryptography
3. Soft Computing
4. Project





# 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.

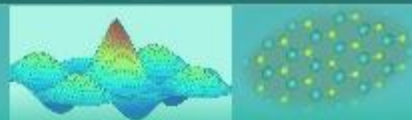
Duration : Min. 2 years; Max. 4 years  
Fee : Rs. 14,000/- per Annum  
Total Credits : 72 Credits  
Medium : English  
Mode : ODL (Semester system)  
Age : No bar.  
Admission: January/July Cycle  
Examination Mode: Annual

## 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
- Exposed 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 and WEAS portal
- Audio and Video Resources for augmented learning.



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

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

Scan QR code







Indira Gandhi National Open University  
SCHOOL OF SCIENCES



## M.Sc. (Applied Statistics) (MSCAST)

### Target Group

- Working professionals in Research and Development departments of various Industries/ Universities/ Institutes.
- Fresh graduates interested in continuing their education and developing Statistical skills.

### Important Information

**Age:** No Bar    **Medium:** English  
**Eligibility:** B.A./B.Sc. in Statistics/  
Mathematics  
**Admission:** July/January Cycle  
**Duration:** Min 2 years - Max 4 years  
**Fee:** ₹15400/- per year

### Topics Covered

- Probability • Survey Sampling
- Design of Experiments • Statistical Quality Control • Time Series Analysis
- Statistical Inference • Regression Analysis • Multivariate Analysis
- Epidemiology • Clinical Trials
- Categorical Analysis • Survival Analysis
- Research Methodology • Operations Research • Stochastic Processes
- Mathematics for Statistics • Machine Learning • Neural Networks • Data Analysis with R and Python



- Semester-wise NEP 2020 based
- After successful completion of first two semesters, learners will be awarded with **Post Graduate Diploma in Statistics and Applications (PGDSA)**

- Statistician
- Market Researcher
- Financial Analyst
- Scientific Researcher
- Opportunities in R&D departments, Academic Institutions, Industries, etc.
- Data Scientist
- Biostatistician
- Insurance Actuary

### Career Prospects



Scan for More Details

**For Further Information, Please Contact:**

Director, School of Sciences  
Email: [sos@ignou.ac.in](mailto:sos@ignou.ac.in)  
Ph.: 011-29572832

Dr. Neha Garg & Dr. Prabhat Kumar Sangal  
Email: [mscast@ignou.ac.in](mailto:mscast@ignou.ac.in)  
Ph.: 011-29572830 and 011-29572829



Scan to Apply



# Admission Open for January 2024 Session Master of Science (Zoology)(MSCZOO)



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. 14200/- per annum  
**Medium of Instruction:** English
- **Admission cycle:** July and January
- **Registration :** Annual
- **Study Materials:** Print and Digital

## Eligibility:

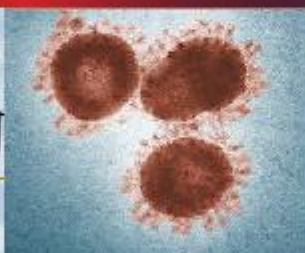
- ❖ The candidate should have passed the B.Sc. (Hons.)/B.Sc. (Major) in Zoology.  
or
- ❖ B.Sc. (General/CBCS) with Zoology as one of the subjects.
- ❖ The reservation policy of GOI will be applicable.

## 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, behaviour 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](mailto:sos@ignou.ac.in)

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

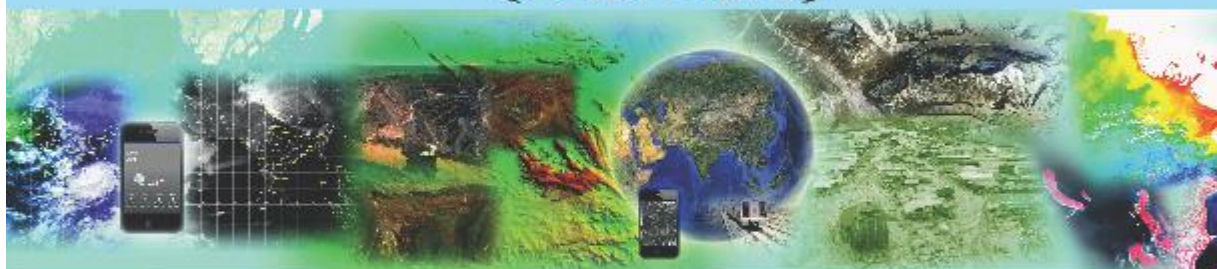
Scan QR code







## Post Graduate Diploma in **GE○INFORMATICS** (PGDGI)



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

**Admission open for both January and July cycles**

**Teaching through  
open & distance  
learning mode**

### **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

### **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



Indira Gandhi National Open University  
Maidan Garhi, New Delhi  
Website: [www.ignou.ac.in](http://www.ignou.ac.in)

### **For Further Information, Please Contact:**

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E-mail: [sos@ignou.ac.in](mailto:sos@ignou.ac.in)

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

**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](http://www.ignou.ac.in)**PROGRAMME COORDINATORS****Dr. Satya Raj** [satyaraj@ignou.ac.in](mailto:satyaraj@ignou.ac.in), Ph. 011-29571672**Dr. K.Nageswara Rao** [knrao@ignou.ac.in](mailto:knrao@ignou.ac.in), Ph. 011-29571680**Dr. Vishal Warpa** [vishalwarpa@ignou.ac.in](mailto:vishalwarpa@ignou.ac.in), Ph. 011-29571674