

# **INSTITUTE OF MATHEMATICS AND APPLICATIONS**

(Science & Technology Department, Government of Odisha)

**BHUBANESWAR-751029**



## **INFORMATION BROCHURE FOR ADMISSION 2026-27**

**(Undergraduate Programme)**

**B.Sc. (Hons.) in Mathematics and Computing**

**(Integrated Postgraduate Programme)**

**Integrated M.Sc. in Mathematics and Computing**

**Integrated M.Sc. in Mathematics and Artificial Intelligence**

**(Postgraduate Programme)**

**M.A./M.Sc. in Mathematics with Data Science**

## **VISION**

To generate, disseminate and preserve knowledge in Mathematical Science and related discipline and to use this knowledge for promoting welfare of the people.

## **MISSION**

- To be a Centre of Excellence in Mathematics and related areas by providing academic study and excitement of discovery in an atmosphere of freedom.
- To create an environment and support for faculties and students to work creatively and effectively for the betterment of society.

## **INSTITUTE AT A GLANCE**

The Institute of Mathematics and Applications was established in the year 1999, by the Science and Technology Department, Government of Odisha with wide ranging aims and objectives as notified in the Gazette No. 18, July 23, 1999/SRAVANA, 1, 1921. In the last twenty six years since its inception, consistent with its aims and objectives, it has been active in research, teaching and nurturing talents in mathematics. Impressive activities of the Institute and its potential have persuaded the State Government to graciously lease a piece of land measuring about twenty one acres on which the TATA Steel Ltd. has constructed the present campus.

## **GOVERNING COUNCIL OF THE INSTITUTE**

Prof. Gadadhar Misra, Department of Mathematics, Indian Institute of Science, Bengaluru	Chairman
Vice Chancellor, Utkal University, Bhubaneswar	Member
Principal Secretary to Government, Science and Technology Department, Govt. of Odisha	Member
Chairman or a nominee, National Board for Higher Mathematics, Department of Atomic Energy, Govt. of India.	Member
Senior most Professor of Mathematics, Utkal University, Bhubaneswar	Member
Senior most Professor of Mathematics, Sambalpur University, Sambalpur	Member
Senior most Professor of Mathematics, Berhampur University, Berhampur	Member
Director, Institute of Physics, Bhubaneswar	Member
Prof. R. Balasubramanian, Former Director, Institute of Mathematical Sciences, Chennai	Member
Prof. Satish Chand, School of Computer and Systems Sciences, Jawaharlal Nehru University, New Delhi	Member
President, Odisha Mathematical Society	Member
Prof. Sudhakar Panda, Ex-Director, NISER, Bhubaneswar.	Member
Prof. G.D. Veerapa Gowda, TIFR Centre for Applicable Mathematics, Bengaluru	Member
Secretary, Finance Department, Govt. of Odisha or his nominee not below the rank of Additional Secretary to Govt.	Member
Director, Institute of Mathematics and Applications, Bhubaneswar.	Member Secretary

## **FACULTY MEMBERS OF THE INSTITUTE**

### **Director**

Prof. Jasobanta Jena, Ph.D. (Mathematics)

### **Faculty members of IMA**

#### **Professors**

1. Prof. Trailokya Panigrahi, Ph. D. (Mathematics)
2. Prof. Pinakadhar Baliarsingh, Ph. D. (Mathematics)
3. Prof. Sudhakar Sahoo, Ph. D. (Computer Science)
4. Prof. Ambit Kumar Pany, Ph. D. (Mathematics)

#### **Assistant Professor**

1. Shri Indra Bate, M. Sc. (Mathematics)
2. Dr. Debaprasanna Kar, Ph. D. (Mathematics)
3. Dr. Paramita Pramanick, Ph. D. (Mathematics)

### **Guest Faculties associated with IMA**

Prof. Sudarsan Padhy, Former Director, IMA.

Prof. Akshaya Kumar Ojha, Ph.D.

Dr. Shankarsan Mohanty, Ph.D.

Dr. Sujata S. Mohanty, Ph.D.

Dr. Rabindra Kumar Kar, Ph.D.

Dr. Hiranmayee Mishra, Ph.D.

Dr. Prafulla Kumar Swain, Ph.D.

Dr. Om Prakash Jena, Ph.D.

Dr. Bishwa Ranjan Das, Ph.D.

Dr. Pradipta Kumar Pattanayak, Ph.D.

Mr. Mohini Prasad Mishra, M.Tech.

Mr. Chinmayananda Padhy, M.Tech.

Mrs. Rasmi Rani Panda, M.Tech.

## **UNDERGRADUATE (U.G.) PROGRAMME**

- **B.Sc. (Hons.) in Mathematics and Computing. (Four year course)**

### **About the Programme:**

The Institute of Mathematics and Applications is offering a well-designed programme “B.Sc. (Hons.) in Mathematics and Computing” in order to impart high quality education in Mathematics and Computing to those student who love Mathematics and at the same time keep career option open in Computer Science/Statistics. Besides a research career in Mathematics, there are varieties of other career options for the graduates of these programmes both in academics as well as in the corporate sector. Students completing B.Sc. (Hons.) in Mathematics and Computing from this Institute have joined in Master’s Degree courses and integrated Ph.D programmes in reputed R&D institutions and foreign Universities.

### **Eligibility:**

A candidate seeking admission to this programme should have passed Higher Secondary or equivalent examination with Mathematics and English as subjects.

**Applicants appearing at the qualifying examination can also appear in the entrance test. However, if selected, they have to submit the results of the qualifying examination at the time of admission along with Provisional Certificate, College/School Leaving Certificate and Mark sheet.**

### **Intake:**

The maximum number of students to be admitted into the programme is 45 which include the number of students admitted under reserved categories as prescribed by the Govt. of Odisha and in applicable at the time of admission.

### **Admission Fee and Course Fees:**

1.	Admission Fees	:	Rs 20,000/-
2.	1 <sup>st</sup> Year Course Fee	:	Rs 25,000/-
3.	2 <sup>nd</sup> Year Course Fee	:	Rs 25,000/-
4.	3 <sup>rd</sup> Year Course Fee	:	Rs 25,000/-
5.	4 <sup>th</sup> Year Course Fee	:	Rs. 25,000/-

(Excluding hostel accommodation fees, mess fees and other fees).

### **POSTGRADUATE (P.G.) PROGRAMME**

- **M.A./M.Sc. in Mathematics with Data Science. (Two year course)**

Establishing pattern in a pile of huge data in quest of optimality, precision, time efficiency or making smarter decisions amidst diverse information are challenges faced by corporate sector in a world taken over by digital revolution. The role of a data scientist is to predict what is likely to happen given past data of what has happened and recommend decision makers cost effective changes to existing procedures and strategies. To meet this objective a data scientist explores and examines data from various perspectives to determine weaknesses, trends, and opportunities, and employs machine learning and statistical methods, invents new algorithms to solve problems and builds new tools to automate work. So professionals with background in Data Science are now most sought after in business, industry, scientific labs, etc. This course aims at producing competent data scientists with strong foundation in mathematics to address the above requirements in corporate sector while having ample scope for a career option in academics as well. The syllabus is designed for in-depth theoretical background in data science, hands on training in laboratory; interfere with industry with varieties of electives to choose for different requirements. The course is an amalgamation of Mathematics, Statistics, Computation, Big Data Analysis, Machine Learning including Deep Learning, Business Analytics and much more.

### **Eligibility:**

A candidate seeking admission to this programme should have passed Bachelor's Degree with Mathematics/Statistics as honours/pass subject.

**Applicants appearing at the qualifying examination can also appear in the entrance test. However, if selected, they have to submit the results of the qualifying examination at the time of admission along with Provisional Certificate, College/School Leaving Certificate and Mark sheet.**

### **Intake:**

The maximum number of students to be admitted into the programme is 30 which include the number of students admitted under reserved categories as prescribed by the Govt. of Odisha and in applicable at the time of admission.

### **Admission Fee and Course Fees:**

1. Admission Fees : Rs 50,000/-
2. 1<sup>st</sup> Year Course Fee : Rs 50,000/-
3. 2<sup>nd</sup> Year Course Fee : Rs 50,000/-

(Excluding hostel accommodation fees, mess fees and other fees).

## **INTEGRATED POSTGRADUATE (P.G.) PROGRAMME**

- **Integrated M.Sc. in Mathematics and Computing, (Five year course)**

**(Approved by the Govt. and under consideration of Utkal University)**

The Five-Year Integrated M. Sc. Programme in Mathematics and Computing offered by the Institute of Mathematics and Applications (IMA), Bhubaneswar, is designed to equip students with a strong foundation in mathematical thinking alongside modern computational techniques. In an era driven by data, algorithms, and digital technologies, the ability to combine rigorous mathematical reasoning with efficient computational skills is essential for solving complex real-world problems. This programme aims to develop analytical, logical, and problem-solving abilities, enabling students to model, analyze, and compute solutions across diverse domains such as science, engineering, finance, and technology.

Structured across ten semesters, the curriculum provides a balanced blend of core mathematics, computer science, and interdisciplinary applications. Students gain in-depth knowledge of areas such as algebra, analysis, probability, optimization, and numerical methods, complemented by programming, data structures, algorithms, and emerging areas like artificial intelligence and scientific computing. With a flexible choice of electives and exposure to contemporary computational tools, graduates of this programme are well-prepared for careers in industry, research, and academia, as well as for pursuing advanced studies in mathematics, computing, and related fields.

### **Eligibility:**

A candidate seeking admission to this programme should have passed Higher Secondary or equivalent examination with Mathematics and English as subjects.

**Applicants appearing at the qualifying examination can also appear in the entrance test. However, if selected, they have to submit the results of the qualifying examination at the time of admission along with Provisional Certificate, College/School Leaving Certificate and Mark sheet.**

### **Intake:**

The maximum number of students to be admitted into the programme is 30 which include the number of students admitted under reserved categories as prescribed by the Govt. of Odisha and in applicable at the time of admission.

### **Admission Fee and Course Fees:**

1. Admission Fees	:	Rs 50,000/-
2. 1 <sup>st</sup> Year Course Fee	:	Rs 25,000/-
3. 2 <sup>nd</sup> Year Course Fee	:	Rs 25,000/-
4. 3 <sup>rd</sup> Year Course Fee	:	Rs 25,000/-
5. 4 <sup>th</sup> Year Course Fee	:	Rs 25,000/-
6. 5 <sup>th</sup> Year Course Fee	:	Rs 50,000/-

(Excluding hostel accommodation fees, mess fees and other fees).

- **Integrated M.Sc. in Mathematics and Artificial Intelligence, (Five year course)**  
**(Approved by the Govt. and under consideration of Utkal University)**

The Five-Year Integrated M. Sc. Programme in Mathematics and Artificial Intelligence offered by the Institute of Mathematics and Applications (IMA), Bhubaneswar, is designed to develop professionals with a strong mathematical foundation and advanced expertise in intelligent systems. In today's technology-driven world, artificial intelligence is transforming industries by enabling automation, predictive insights, and data-driven decision-making. This programme aims to equip students with the ability to understand and design AI-driven solutions grounded in rigorous mathematical principles. Students are trained to analyze complex data, build intelligent models, and address real-world challenges across domains such as healthcare, finance, robotics, and digital systems.

Spanning ten semesters, the curriculum integrates core areas of mathematics—such as linear algebra, probability, statistics, optimization, and analysis—with key components of artificial intelligence, including machine learning, deep learning, natural language processing, and computer vision. With opportunities to explore interdisciplinary electives and emerging technologies, students gain the skills necessary for innovation and research. Graduates are well-prepared for careers in AI-driven industries, research institutions, and academia, as well as for pursuing higher studies in mathematics, artificial intelligence, and related fields.

### **Eligibility:**

A candidate seeking admission to this programme should have passed Higher Secondary or equivalent examination with Mathematics and English as subjects.

**Applicants appearing at the qualifying examination can also appear in the entrance test. However, if selected, they have to submit the results of the qualifying examination at the time**

of admission along with Provisional Certificate, College/School Leaving Certificate and Mark sheet.

### **Intake:**

The maximum number of students to be admitted into the programme is 30 which include the number of students admitted under reserved categories as prescribed by the Govt. of Odisha and in applicable at the time of admission.

### **Admission Fee and Course Fees:**

1. Admission Fees : Rs 50,000/-
2. 1<sup>st</sup> Year Course Fee : Rs 25,000/-
3. 2<sup>nd</sup> Year Course Fee : Rs 25,000/-
4. 3<sup>rd</sup> Year Course Fee : Rs 25,000/-
5. 4<sup>th</sup> Year Course Fee : Rs 25,000/-
6. 5<sup>th</sup> Year Course Fee : Rs 50,000/-

(Excluding hostel accommodation fees, mess fees and other fees).

The detailed course structures of all the courses (UG & PG) & achievements of our Alumni are available in IMA website.

### **METHOD OF SELECTION**

Selection of candidates for admission into UG and PG courses shall be made on the basis of the entrance test. The entrance test will be of two hours duration. Previous year question papers are available in the Institute website for reference. Eligible candidates can appear in the entrance test.

### **APPLICATION PROCEDURES (U.G./ I.P.G./P.G.)**

Applicants are advised to study the information brochure carefully and satisfy themselves that they are eligible for admission to the academic programme for which they are applying. If any stage it is found that a candidate does not satisfy the eligibility conditions or the information furnished with the application is incorrect, the application will be cancelled.

Interested candidate has to download the application form from the Institute website using the link <https://iomaorissa.ac.in> Applicant has to deposit the required amount of application fee through the link <https://easypay.axisbank.co.in/easyPay/makePayment?mid=NjIwNTQ%3D>. Care should be taken to enclose the self-attested photo copy of online payment slip towards application fee and the transaction number of the payment should be written in the appropriate place of application form.

Filled in application form along with all enclosures in a closed envelope superscribed as “APPLICATION FOR ADMISSION INTO \_\_\_\_\_ COURSE (*mention either UG or IPG or PG*)” should be sent to the **Admission In-Charge, Institute of Mathematics and Applications,**

**Andharua, Bhubaneswar-751029 either by speed/registered post** so as to reach at the Institute on or before the last date fixed by the institute. (The candidates are also advised to send the scanned copy of application in PDF to the email ID: [admission.ima@iomaorissa.ac.in](mailto:admission.ima@iomaorissa.ac.in).)

**\* Application Fee for all the courses**

Rs 700/- (Rupees seven hundred only) for general category candidates.

Rs 400/- (Rupees four hundred only) **for Odisha state domicile SC /ST candidates only.**

Information regarding admit card, test centres etc. will be announced in the Institute website: <https://iomaorissa.ac.in>. Applicants are advised to visit the IMA website regularly for getting update information.

## **DOCUMENTS TO BE SUBMITTED WITH THE APPLICATION FORM**

The following documents are to be enclosed with the application form.

- Photo copy (self-attested) of High School Certificate.
- Photo copy (self-attested) of High School Mark Sheet.
- Photo copy (self-attested) of Intermediate/Higher Secondary Certificate.
- Photo copy (self-attested) of Intermediate/Higher Secondary Mark Sheet.
- Photo copy (self-attested) of Caste Certificate (If belong to SC/ST candidates of Odisha state domicile.)
- Photo copy (self-attested) of valid certificate (If belong to Persons with Disability (PWD) Category)
- Photo Copy (self-attested) of online payment details towards application fee.
- Two recent passport size photographs.

In addition to all the above documents the following documents have to be submitted for P.G. admission.

- Photo copy (self-attested) of Bachelor's Degree certificates.
- Photo copy (self-attested) of Bachelor's Degree Mark Sheet.

## **FACILITIES**

- **Campus Infrastructure:**

Located in Bhubaneswar, Institute of Mathematics and Applications with integrated modern wi-fi campus has a highly functional design and strong rationale to every aspect of the design. The serene environment provides a perfect setting for a professionally rewarding educational experience. Student activity areas such as a lounge and cafeteria, spacious classrooms of varying seating capacities, conference halls, faculty chamber, Library are available.

- **Uninterrupted Power Supply:**

Uninterrupted 24×7 electric supply to all the class rooms, library and laboratories are ensured through alternate sources like solar panels, electric UPS and diesel generators.

- **Computer Laboratory:**

The Institute has two well-equipped and furnished computer laboratories that hosts servers and number of PCs, running different operating systems.

- **Library:**

The library has more than **9000** numbers of references on mathematical, financial, computational and related subjects as well as professional journals, both national and international. It collectively supports the teaching, research and extension programmes of the Institute. All students, faculty members and employee of the Institute are entitled to use library facilities on taking library membership. Library remains open from 10:00 A.M. to 5:30 P.M. on all working days.

- **Hostel:**

The Institute provides limited hostel facility to both boys and girls separately. The excellent study environment and sophisticated accommodation of the hostels with wi-fi facility inside the hostel premises are available for students. Security personnel are alert round the clock and in case of medical emergency, vehicle facility is also available.

- **Scholarship:**

Scholarships may be awarded to some of the meritorious students of U.G & P.G. courses. Presently following scholarships availed by IMA students.

Funding Agency :	Scholarship Amount
1. NBHM, Govt. of India (UG students)	Rs. 60000/- per annum
2. NBHM, Govt. of India (PG students)	Rs. 72000/- per annum
3. Science &Tech. Dept. Govt. of Odisha (P.G. students)	Rs. 24000/- per annum
4. Higher Education Department, Govt. of Odisha (U.G.& P.G)	Rs. 10000/- per annum
5. ST & SC Development Minorities & Backward Classes Welf. Dept.	Rs. 6000/- per annum
6. Other State and National Scholarships (U.G. & P.G.)	

## **TEST CENTRES**

<b>CITY</b>	<b>CODE</b>	<b>CITY</b>	<b>CODE</b>
Balasore	<b>BLS</b>	Hyderabad	<b>HYD</b>
Bhopal	<b>BHO</b>	Kerala	<b>KER</b>
Bhubaneswar	<b>BBS</b>	Kolkata	<b>KOL</b>
Berhampur	<b>BAM</b>	Mumbai	<b>MUM</b>
Delhi	<b>DLH</b>	Chennai	<b>CHN</b>
Guwahati	<b>GHT</b>	Sambalpur	<b>SBP</b>

Applicants can opt for three test centres from the above list and the corresponding code must be entered in the appropriate box of the application form. However, the Institute reserves the right to allot a centre to a candidate other than those opted by him/her in case of exigency.

## **IMPORTANT DATES**

<b>Date of availability of application forms and prospectus</b>	<b>09/04/2026</b>
<b>Last date of receipt of completed application form</b>	<b>30/05/2026</b>
<b>Date of entrance test</b>	<b>23/06/2026</b>

## **ALL CORRESPONDENCE TO BE ADDRESSED TO**

The Admission In-Charge, Institute of Mathematics and Applications,  
Andharua, Bhubaneswar-751029

E-Mail Id: [admission.ima@iomaorissa.ac.in](mailto:admission.ima@iomaorissa.ac.in)

Web site : <https://www.iomaorissa.ac.in>

Contact Number: 9040654553/8260505520