

# Graduate Studies

The Department of Biological Sciences offers the following course and research-oriented graduate degree programs:

- MSc in Biochemistry and Biophysics
- PhD In Biochemistry

The MSc degree is a 2 to 2.5-year program with 12 courses and a research thesis and the PhD program is a 4-5-year course consisting of 9 courses and a research thesis.

Individuals with a Bachelor's or Master's degree in all fields of science (including basic and medical sciences) are eligible to apply.



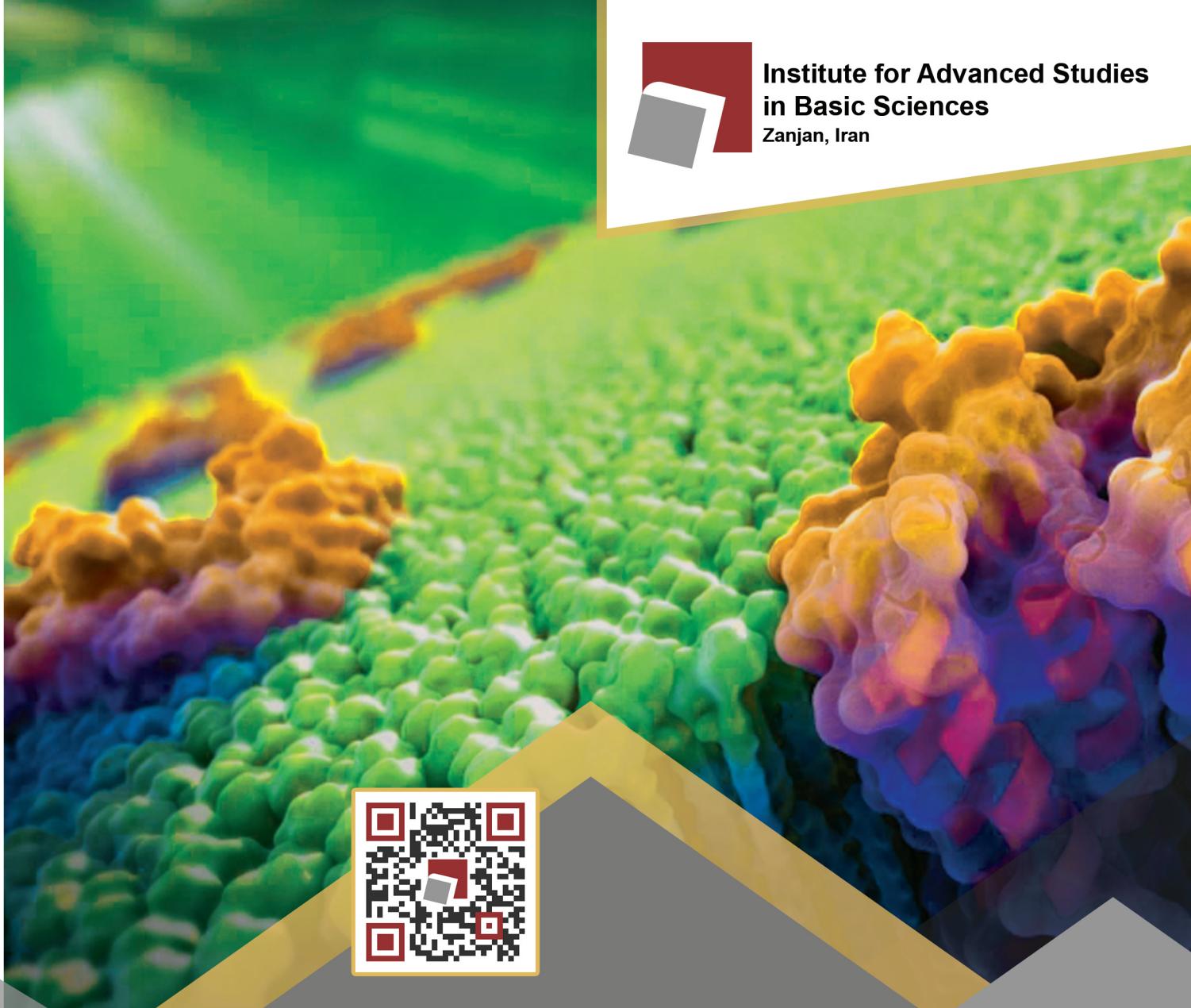
## Department Facts

Since 2008

9 Faculty

202 Alumni

37 Students



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**Institute for Advanced Studies  
in Basic Sciences**  
Zanjan, Iran

**Department of  
Biological Sciences**

[www.iasbs.ac.ir](http://www.iasbs.ac.ir)

# Departmental Overview

The Department of Biological Sciences at the Institute for Advanced Studies in Basic Sciences began its activities by admitting Master's students in Biochemistry and Biophysics.

In 2024, we launched a PhD program in Biochemistry, and we are working towards establishing a PhD program in Biophysics.



[www.iasbs.ac.ir/departments/bio/](http://www.iasbs.ac.ir/departments/bio/)



## Areas of Study

- Ligand-Binding
- Folding and Stability of Proteins and Nucleic acids
- Kinetic studies of enzyme immobilization and inhibition
- Protein aggregation and neurodegenerative diseases
- Biology of Cancer
- Bioinformatics studies
- Computational biology
- Functional amyloids and bacterial biofilm studies

### Head of the Department:

**Dr. Hamid Hadi Aljanvand**

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## Research Facilities

The department has various instrumental and computational facilities available for its research programs. Our primary laboratories include:

- General Biology Lab (Biochemistry and Biophysics)
- Microbiology Laboratory
- Cell Culture Laboratory
- PCR and Real-Time PCR
- Electrophoresis
- Cytation, ELISA, and UV Spectroscopy
- Microtome
- Mathematical Modelling, Bioinformatics & Mini-HPC
- Fluorescence Microscopy
- Flow Cytometry

Further facilities are also available to our faculty and students, including personal office space, and meeting rooms.

