

ANAS Institute of Mathematics and Mechanics
2022 of the "Education" department
ANNUAL REPORT

During the reporting period, the Department of Education was engaged in the organization of doctoral studies, dissertation studies and master's studies.

DOCTORAL 9 full-time doctoral students and 4 part-time doctoral students are studying for the preparation of Doctor of Philosophy.

During the reporting period, 4 full-time PhD students completed their doctoral studies:

1) Sabina Jafarova; 2) Farhadova Yeter; 3) Isayeva Aygun; 4) Osmanov Vusal.

During the reporting period, 1 person was admitted to RMI's doctoral course for the preparation of a doctor of philosophy as a part-time: Aliyeva Khalida - 1202.01 - Analysis and functional analysis specialty. Supervisor d.m.s. Rovshan Bandaliyev.

DISSERTATION 13 doctoral students are studying for a doctor of philosophy, 7 doctoral students are studying for a doctor of sciences.

During the reporting period the ones who completed their dissertations:

9 people in preparation for **doctor of philosophy**: Abbasova Gulnar Adil gizi, Safarova Kamala Hasan gizi, Yusibova Elmira Haji gizi, Karimova Shusha Aghakarim gizi, Movsumova Ayten Hafiz gizi, Mammadova Vafa Mammad gizi, Nasibov Yusif Ilham oglu, Maksudova Narmin Aris gizi, Huseynova Mehri Abbasgulu gizi

6 people have completed the **doctoral studies**: Hasanov Sabir Kahraman oglu, Bayramov Azad Mammad oglu, Shukurov Aydin Shukur oglu. Sadigova Sabina Rahib, Sadikhov Vugar Vagif, Mukhtarov Ogtay Shahhuseyn. 3 of them defended: Hasanov Sabir Kahraman, Bayramov Azad Mammad, Shukurov Aydin Shukur. Sadigova Sabina Rahibgizi presented her thesis.

During the reporting period, 2 people were admitted to IMM's Ph.D. dissertation, they are:

- 1) Rzayeva Vusala Bayazkhan gizi. 2002.01 - Mechanics of deformable solids
- 2) Derishova Aynur Oruj gizi. 2003.01- Liquid, gas and plasma mech.

Those defended at the Institute of Mathematics and Mechanics during the reporting period:

for Ph.D:

- 1) full-time doctoral student Neymetov Elbrus - Probability theory specialty.
- 2) dissertation student Zabidov Zakir - on the specialty of remote aerospace research.
- 3) dissertation candidate Karimova Mehriban - differential equations specialty.
- 4) Dissertation student Rustamova Samira - differential equations specialty.

for Doctor of Sciences:

5) dissertation student Bayramov Azad - Analysis and functional analysis specialty.

6) Dissertation student Shukurov Aydin - Analysis and functional analysis specialty.

MAGISTRATE

During the reporting period, 6 people continued their studies in the 2nd year, 9 people in the 1st year.

Semester exams were held on 01.01.22 - 02.02.22 and the graduate students achieved the following exam results.

I course

1. Feyzullayev Ilkin Gadir oglu -94 points
2. Rahimli Medina Rahim gizi-93 points
3. Gasimova Gulnar Rahim gizi-88 points
4. Ismayilzade Zahra Eldeniz gizi - 89 points
5. Ibrahimova Ruhangiz Taleh gizi - 90 points
6. Khanizade Aygul Mubariz gizi - 92 points
7. Alizade Gunel Rafiq gizi - 87 points
8. Nasibova Sevinj Ilgar gizi - 85 points
9. Sadygova Züleykha Süleyman gizi - 94 points

II course

graduate students,

1. Alizade Betula Mahir gizi - 98 points
2. Huseynova Rubaba Ismayil gizi-96 points
3. Gulmammadova Sahila Firudin gizi - 95 points
4. Aliyeva Shalala Eynulla gizi - 98 points
5. Jafarova Ulfat Faig gizi-94 points
6. Rzayeva Vusala Bayazkhan gizi - received 94 points and gave loads of scientific research and scientific pedagogical experience.

Classes started on February 16 were held for first-year (II semester) masters in "Mathematical analysis", "Differential equations", "Liquid, gas and plasma mechanics".

On June 21, 22, 2020, 6 master's dissertations from "Mathematical analysis", "Differential equations", "Optimization and optimal control", "Fluid, gas and plasma mechanics", and "Deformable solid mechanics" were presented to second-year masters. The meeting of the Specialized Council for the protection of the defense was held, Dissertation work was carried out by the members of the Council in accordance with:

Betula Alizade - 100-A, Huseynova Rubaba - 91-A, and Gulmammadova Sahila - 93-A, Aliyeva Shalala - 93-A, Jafarova Ulfat - 91-A, Rzayeva Vusala - 91-A.

Semester exams were held on 01.06.21-05.07.21 and the graduate students achieved the following exam results.

1. Feyzullayev Ilkin Gadir oghlu - 93 points,

2. Rahimli Medina Rahim gizi - 94 points,
3. Gasimova Gulnar Kazim gizi - 93 points,
4. Ismayilzade Zahra Eldeniz gizi - 92 points,
5. Ibrahimova Ruhangiz Taleh gizi - 91 points,
6. Khanizade Aygül Mubariz gizi - 91 points,
7. Alizade Gunel Rafiq gizi - 92 points,
8. Nasibova Sevinj Ilgar gizi - 88 points,
9. Sadygova Zuleikha Süleyman gizi - 94 points.

Masters have successfully completed the 1st year (2nd semester) from 07.05.2021 and passed to the 2nd year.

II course (III semester) "Subject Programs" of the lessons taught according to the Plan have been approved.

1. Issues of movement of liquids in pipes - correspondent member of ANAS, Ph.D. Gaylani Panahov
2. Fundamentals of hydraulics - corresponding member of ANAS, d.t.s. Geylani Panahov
3. Nonlinear differential equations – d.m.s., prof. Adalat Akhundov
4. Spectral theory of differential operators – d.ph.m.s., prof. Hamidulla Aslanov
5. The main issues of management theory - d.ph.m.s., prof. Telman Malikov
6. Inclusion theorems and their applications - d.ph.m.s., prof. Akbar Aliyev
7. Linear equations in Banach space - d.ph.m.s., prof. Mammad Bayramoglu
8. Problems of heat transfer in liquids – d.mech s.,dos. Elkhan Abbasov
9. Banach-Hardy classes. Boundary problem method in basicity problems - correspondent member of ANAS , prof. Bilial Bilalov
10. The main issues of oil and gas mechanics – cand.tech.sci.,dos. Eldar Abbasov
11. Application of calculation methods to solving scientific and technical problems – ph.tech.sci. Hasan Nagiyev
12. Mechanics of multi-phase system – d.ph.in math.,dos. Afet Yuzbashiyeva

According to ANAS Order No. 483 dated September 20, 2022, 5 people were admitted to the master's program of the 2022/2023 academic year of the Institute of Mathematics and Mechanics of ANAS:

1. Bayramova Naskhanim Jalal gizi - 78 points, majoring in mathematical analysis
2. Ruffullazade Aytaj Ayyub gizi - 76 points, majoring in Mathematical analysis
3. Babazade Maya Ajdar gizi - 75 points, majoring in mathematical analysis
4. Huseynzade Sevinj Eldar -79 points, majoring in Mathematical Physics
5. Taghiyeva Chimnaz Elchin gizi - 56 points, majoring in Mathematical Physics

The "Subject Programs" of the lessons taught according to the plan at the master's degree of ANAS RMI have been approved.

I course (I semester)

1. Modern problems of harmonic analysis - Bilial Bilalov, correspondent member of ANAS
2. Contemporary problems of mathematics - Bilial Bilalov, corresponding member of ANAS
3. Non-linear analysis – d.ph.m.s., prof. Hamidulla Aslanov
4. Classical and modern problems of mathematical physics – d.m.s., prof. Adalat Akhundov
5. History and methodology of mathematics – d.ph.m.s, prof. Mammad Bayramoglu
6. Linear algebra and structures – d.ph.m.,Eminagha Mammadov

Head of education department

professor Adalat Akhundov