

Program Catalogue

College Name	College Abbreviation
Education	Edu
Department Name (in English)	Department Abbreviation
Mathematics	Math
Department Name (in Kurdish)	
ماتماتيك	
Department Name (in Arabic)	
الرياضيات	
1. Qualification awarded	
Bachelor of Science in Electrical and Computer Engineering	
2. Length of programme	
4 Years	
3. Number of credits	
240 ECTS credits	
4. Level of qualification according to the National Qualification Framework and the European Qualifications Framework	
Bachelor's and Master degrees	
5. Field(s) of study (e.g. ISCED-F)	
6. Specific admission requirements (if applicable)	
7. Specific arrangements for recognition of prior learning (formal, non-formal and informal) (if applicable)	
8. Qualification requirements and regulations, including graduation requirements	
Students should successfully complete all the core components and collect 240 ECTS credits	
9. Profile of the programme	
The Department of Mathematics at the College of Education is an extension of the Department of Mathematics which it is was founded in 2003 at a College of Basic Education. It offers a four-year undergraduate program leading to a Bachelor's degree, qualifying graduates to work in governmental institutions. Throughout their studies, students gain the essential skills and practical experience needed for their future careers. The undergraduate curriculum is both rigorous and comprehensive, preparing students for professional and academic paths within their chosen fields. Scientific courses are designed to balance theoretical knowledge with real-world applications, making their integration highly valuable. The department offers lectures that cover fundamental concepts and key details related to the field of specialization. The department aims to introduce students to the stages of mathematical development. As they advance, the curriculum becomes more specialized and in-depth, equipping them with the knowledge and expertise needed to master their field. The academic year begins in mid-September, following the university calendar, and ends in late June. During this period, students are required to take midterm and final examinations in all subjects. The department also offers opportunities for interdisciplinary research and study within major fields, helping students expand their knowledge and analytical abilities. The primary goal of the department is to prepare students to become qualified teachers. The college equips future educators with foundational teaching principles, along with psychological and educational courses relevant to their specialization. Recognizing the importance of strong	

mathematical skills, the Department of Mathematics trains future teachers to inspire appreciation and understanding of mathematics in their students.

In addition, the department offers Master of Science in Mathematics Education (M.Sc.) the postgraduate programme emphasizing advanced mathematical topics, research methods, and curriculum development.

10. Programme Educational Objectives

Graduates of the Mathematics Education programmes will be able to:

1. Apply strong mathematical knowledge and pedagogical skills in educational settings.
2. Demonstrate professionalism, ethical conduct, and commitment to continuous learning.
3. Utilize modern teaching strategies and technologies to enhance mathematics learning.
4. Engage in research that contributes to the development of mathematics education.
5. Serve the community and educational institutions through leadership and collaboration.

11. Programme learning outcomes

Graduates of the Mathematics Education programmes will be able to:

Knowledge (K):

1. Demonstrate deep understanding of key mathematical concepts in pure and applied mathematics.
2. Explain educational theories, teaching strategies, and curriculum principles relevant to mathematics education.

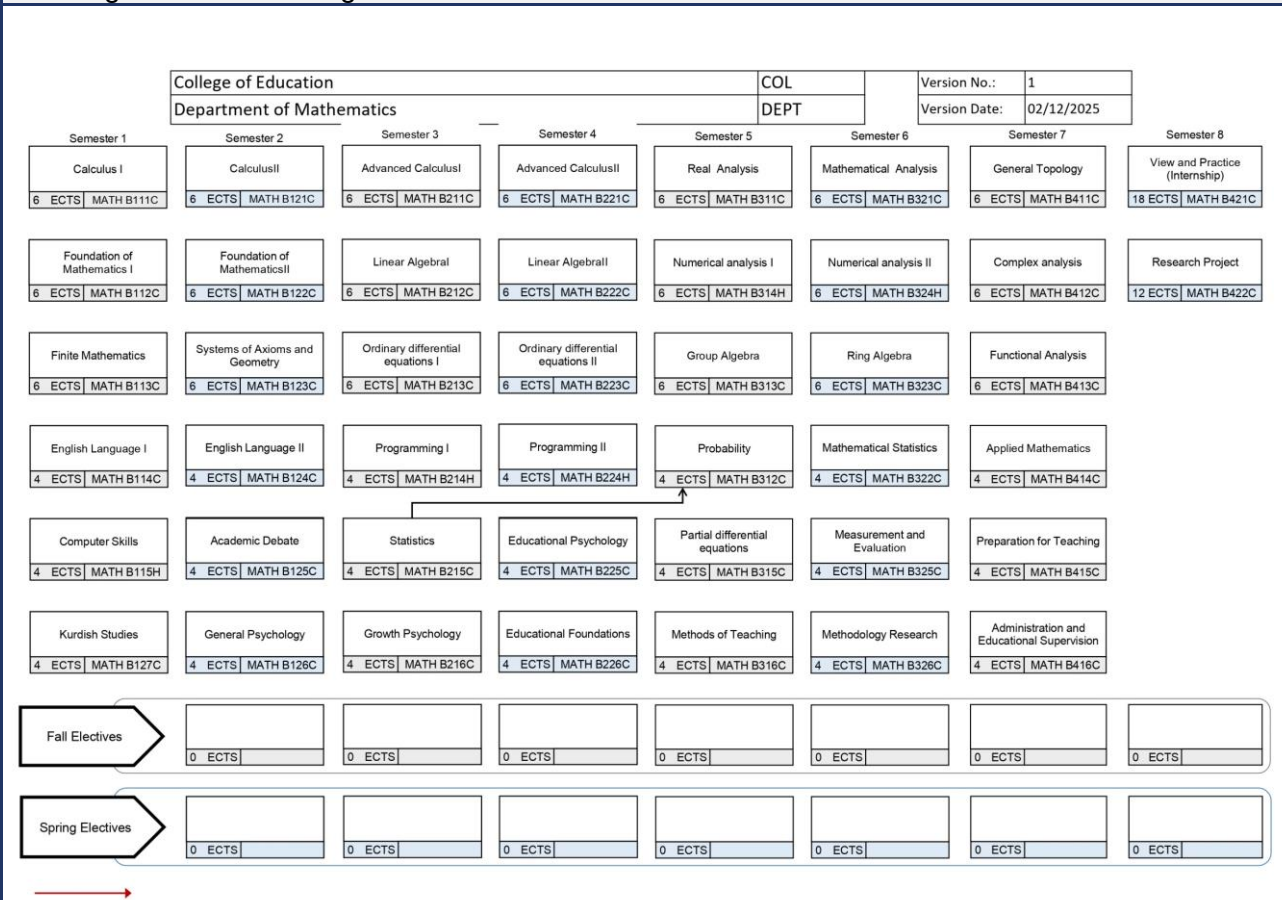
Skills (S):

3. Apply mathematical reasoning, problem-solving techniques, and analytical skills effectively.
4. Use modern technologies, digital tools, and software to teach and communicate mathematical ideas.
5. Conduct research using appropriate methodologies in mathematics and mathematics education.
6. Design, implement, and evaluate lesson plans aligned with curriculum standards.

Values & Professional Responsibility (V):

7. Demonstrate professional ethics, responsibility, and effective communication in educational environments.
8. Work collaboratively in teaching, research, and community service initiatives.
9. Engage in continuous professional development and lifelong learning.

12. Program structure diagram with credits



13. Mode of Study

Full time on campus

14. Examination regulations and grading scale

The following grading scale is used:

% Points	Grade
90 – 100	Excellent
80 - < 90	Very Good
70 - < 80	Good
60 - < 70	Medium
50 - < 60	Pass
0 - < 50	Fail

15. Mobility window (if applicable)

16. Work placement(s)/internships (if applicable)

The programme includes a 18 ECTS internship opportunity in semester 8

17. Work-based learning (if applicable)

18. Programme director or equivalent

Dr. Muwafaq M. Salih

email: muwafaq.salih@uod.ac

19. Occupational profiles of graduates

Graduates of the Mathematics Education programmes can pursue careers in various educational and professional settings, including:

1. **Mathematics Teacher (Primary, Secondary, and High School)** – Teaching mathematics using modern instructional strategies.
2. **Curriculum Developer** – Designing, reviewing, and improving mathematics curricula and educational materials.
3. **Educational Supervisor / School Administrator** – Supervising mathematics departments or contributing to school leadership.
4. **Educational Researcher** – Conducting studies in mathematics education, assessment, and pedagogy.
5. **Instructional Designer / E-learning Specialist** – Developing digital mathematics content and online learning platforms.
6. **Private Tutor / Training Center Instructor** – Teaching and supporting students in private educational institutions.
7. **Data Analyst / Technical Assistant** – Applying mathematical and statistical skills in administrative or technical roles.
8. **Graduate Studies Candidate** – Pursuing M.Sc. or Ph.D. degrees in mathematics or mathematics education.

20. Access to further studies

Graduate Studies Candidate – Enrolled in, or preparing to pursue, a Master's or Doctoral degree in mathematics or mathematics education

21. Academic Staff

Full Name	Qualification	Academic title	Email
Dr. Muwafaq Mahdi Salih	PhD	Lecturer	muwafaq.salih@uod.ac
nergiz mahdi Musa	MSc	Assistant Lecturer	nergiz.mahdi@uod.ac
Dr. Ramadhan Abed Mohammed	PhD	Professor	ramadhan.hajani@uod.ac
Dr. Sizar Abid Mohammed	PhD	Assistant Professor	sizar@uod.ac
Dr. Sameera Abdulsalam Othman	PhD	Professor	sameera.othman@uod.ac
Dr. Hewa Selman Faris	PhD	Assistant Professor	hewa.faris@uod.ac
Dr. Buhar Qahar Mohammed Ali	PhD	Lecturer	buhar.qahar@uod.ac
Dr. Rahmah Ahmed Afdel Ahmed	PhD	Assistant Professor	rahma.ahmed@uod.ac
Dr. Delbrin Hussein Ahmed	PhD	lecturer	delbrin.ahmed@uod.ac
Dr. Hind Yakdhan Saleh	PhD	Assistant Professor	hind.saleh@uod.ac
Dr. Shaymaa Saeed Essa Alhasso	PhD	Assistant Professor	shaymaa.essa@uod.ac
Honer Naif Abdullah	PhD	Lecturer	honer.zawita@uod.ac
Sebar Taher Qadir	MSc	Lecturer	sebar.qader@uod.ac
Samir Hassen Abass	PhD	Lecturer	samir.abbas@uod.ac
Nadia Akram Mohammed	MSc	Lecturer	nadia.mohammed@uod.ac
Dr. Naeem Ali Askar	PhD	Lecturer	naeem.askar@uod.ac
Dr. Sadeq Taha Abdulazeez Taha	PhD	Assistant Lecturer	sadiq.taha@uod.ac
Rakan Mohammed Rasheed	MSc	Lecturer	rakan.rashid@uod.ac
Ramziya salman Ameen	MSc	Assistant Lecturer	ramziya.salman@uod.ac
Raveen fawzi Taher	MSc	Assistant Lecturer	raveen.fawzi@uod.ac
Hasan hazim jemeel	MSc	Lecturer	hasan.hazim@uod.ac
Sahla Bibo Abdi	MSc	Lecturer	sahla.abdi@uod.ac
Hela Shawkat Ahmed	MSc	Assistant Lecturer	helashawkat@yahoo.com
Harjin Dosky Abdul Karim	MSc	Assistant Lecturer	Mm.ahmad8030@gmail.com
Khabat Hasan Abdullah	MSc	Assistant Lecturer	khabat.berwari@gmail.com
Ghazala Habash Rasheed	MSc	Assistant Lecturer	ghazalmeer29@gmail.com
Bewar Salahadeen Fareeq	MSc	Assistant Lecturer	bewar.fareeq@uod.ac
Dileen Ameer Ahmed	MSc	Assistant Lecturer	dlinameer@gmail.com

22. Facilities and Resources (Lecture halls, Labs, etc.)

The programme uses these facilities:

Type	Quantity	Capacity (students)	Type of use	Equipment included
Lecture Hall	7	45	Dedicated	Projector, whiteboard
Computer Lab 1	2	35	Dedicated	35 Desktop computers, projector, whiteboard
Computer Lab 2	1	25	Dedicated	25 Desktop computers, projector, whiteboard

23. Accreditation and recognition

The program is officially recognized by the Ministry of Higher Education and Scientific Research of the Kurdistan Region – Iraq and the Ministry of Higher Education and Scientific Research of Iraq.

