

**Ministry of Higher Education and Scientific Research
Scientific Supervision and Scientific Evaluation Apparatus
Directorate of Quality Assurance and Academic Accreditation
Accreditation Department**



Academic Program and Course Description Guide

2024

University Name: Warith Alanbiyaa

Faculty/Institute: College of Engineering

Scientific Department: Aircraft department

Academic or Professional Program Name: Bachelor of Aircraft Engineering

Final Certificate Name: Bachelor's degree in Aircraft Engineering

Academic System: quarterly


Description Preparation Date: 2024/3/22

File Completion Date: 2024/3/31

Signature: 

Head of Department Name:

Date: 2024/3/31

Signature: 
Scientific Associate Name:

أ.م.د. حسين هادي حسين


Date: 2024/3/31 عميد كلية

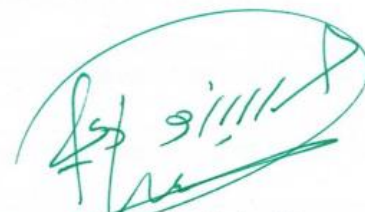
The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date: Ass't. Lect. Walaa. Nasser Abbas

Signature: 


Approval of the Dean

أ.م.د. حسين هادي حسين
عميد كلية الهندسة

1. Program Vision

The Aircraft Engineering Department seeks to be a scientific and research center of excellence that leads the process of innovation in the field of aircraft engineering and its applications, and achieves quality engineering education in its field of specialization.

2. Program Mission

1. Graduating engineering cadres with an integrated leadership personality and high professional skills and ethics that meet the needs of the state's civil and military institutions related to their specialty.
2. Conducting research and studies, transferring knowledge, and localizing technology in order to serve and develop society.
3. Providing a scientific atmosphere that helps creativity, nurturing outstanding and talented people, investing their energies, enhancing continuous learning skills, and serving society within the framework of specialization.
4. Providing educational, academic and vocational guidance, and consolidating national identity and the spirit of belonging and loyalty to the country.

3. Program Objectives

- | |
|--|
| 1- Preparing and graduating an engineering cadre that fulfills the main technical and cognitive requirements to be a high-quality engineering and technical resource in the field of aircraft engineering. |
| 2- Consolidating the principle of participation in society to spread the culture of technical education and its applications. |
| 3- Graduating scientific teams with confident skills and understanding in the field of repair, control and maintenance of relevant devices. |

| | |
|---|--|
| 4- Organizing training and qualification courses by competent staff with the participation of department students to engage in the labor market. | |
| 5- Strengthening the scientific and administrative relationship with scientific and administrative colleges, with corresponding scientific and engineering colleges, as well as ministries, industrial companies, and other relevant institutions, especially the needs of teaching, rehabilitation, and developing educational programs. | |
| 6- Develop and develop all scientific and administrative plans and curricula necessary to achieve the above paragraphs as required, and follow up on the feedback of the work of the plan or curriculum department. | |

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|---------------------------------|
| 4. Program Accreditation |
| Nothing |

| |
|--|
| 5. Other external influences |
| Scientific library, the internet, Laboratories and Scientific seminars |

| 6. Program Structure | | | | |
|---|-------------------|--------------|------------|--------------------------------|
| Program Structure | Number of Courses | Credit hours | Percentage | Reviews* |
| Institution requirements/first year. | 12 | | 54 | Main and assistant rapporteur. |
| College Requirements | 1 | 2 | | Assistant rapporteur. |
| Department Requirements | 1 | 6 | | Basic course. |
| Summer Training | Nothing | | | |
| Other | | | | |

* This can include notes whether the course is basic or optional.

7. Program Description

| Year/Level | Course Code | Course Name | Credit Hours | |
|------------|--------------------|------------------------------|--------------|---|
| 1 | COSC111 | Computer science | | 3 |
| 1 | MATH112 | mathematics | | 4 |
| 1 | PHYS113 | physics | | 7 |
| 1 | WORK106 | Workshops | | 6 |
| 1 | THER114 THER124 | Thermodynamics I | | 5 |
| 1 | HURD115 | Human Rights and Democracy | | 2 |
| 1 | ENME123 | Engineering Mechanics | | 7 |
| 1 | ELEN125 | Electrical Engineering | | 3 |
| 1 | ENLA121 | English Language I | | 2 |
| 1 | MATH122 | Mathematics II | | 4 |
| 1 | EDDG114 EDDG124 | Eng. Drawing & Des. Geometry | | 5 |
| 1 | WORK106 | Workshops | | 6 |

8. Expected learning outcomes of the program

Knowledge

A- Cognitive and understanding

A1- Knowledge and understanding of performing aerodynamic calculations and jet engine performance calculations.

A2- The ability to diagnose faults and supervise maintenance and repair of aircraft systems.

A3- The ability to develop control and propulsion systems in a way that suits climatic and environmental conditions to keep pace with technical development in the field of specialization.

A4- The ability for specialists to participate in conducting research in the field of improving performance, reducing impairment resulting from aerodynamic loads, and finding alternatives in the field of specialization.

| Skills | |
|--|-----------|
| B - Subject-specific skills | |
| B1 - Maintenance and operation of control and propulsion systems. | |
| B2 - Managing maintenance and repair complexes for various aircraft parts and systems. | |
| B3 - Dealing with devices and equipment for examining and diagnosing recent malfunctions in the field of specialization. | |
| B - Subject-specific skills | |
| Ethics | |
| <i>Group/team leadership</i> | |
| Graduates will be able self-motivated, Cooperates effectively with other professionals in different disciplines, backgrounds, and interests to solve problems, works lucidly in confusing situations under pressure, and demonstrates knowledge of and commitment to following safety procedure for self and others. | |
| Ability to recognize a continuing need for additional knowledge and to identify, evaluate, integrate and apply this knowledge appropriately. | Outputs 1 |
| Ability to work effectively in teams that set goals, plan tasks, meet deadlines, and analyze risk and uncertainty. | Outputs 2 |

| 9. Teaching and Learning Strategies |
|---|
| <ul style="list-style-type: none"> - lecture - Laboratory - The workshop - Systematic training - Scientific visits |

| 10. Evaluation methods |
|---|
| <ul style="list-style-type: none"> - Oral exams - Written tests - Quarterly exams - final exams - Daily evaluation |

11. Faculty

Faculty Members

| Academic Rank | Specialization | | Special Requirements/Skills (if applicable) | | Number of the teaching staff | |
|----------------------------------|----------------|---------|---|--|------------------------------|----------|
| | General | Special | | | Staff | Lecturer |
| Prof. Dr. Muhammad Hassan Abboud | | √ | | | √ | |
| Prof. Dr. Muhammad Wahab Kazem | | √ | | | | √ √ |
| M.D. Watheq Qasim Matroud | | √ | | | √ | |
| M.M. Basim Sacht Atiyah | | √ | | | | |
| M.M. Alaa Akram Joe | | √ | | | √ | |

Professional Development

Mentoring new faculty members

- 1- Dealing with individuals working in the field of specialization and knowledge of public relations
- 2- The ability to identify good facilities for equipping various air conditioning and freezing units
- 3- Dealing with computer software related to the specialty and other software
- 4- Dealing with specialized terminology and conversation in the English language

Professional development of faculty members

Briefly describe the academic and professional development plan and arrangements for faculty members such as teaching and learning strategies, assessment of learning outcomes, professional development, etc.

12. Acceptance Criterion

Student admission conditions

Graduate of preparatory school/scientific branch

13. The most important sources of information about the program

Library, Internet, websites, virtual library

14. Program Development Plan

Nothing

Program Skills Outline

| | | | | Required program Learning outcomes | | | | | | | | | | | |
|-------------|-------------|------------------------------|------------------------|------------------------------------|----|----|----|--------|----|----|----|--------|----|----|----|
| Year/Level | Course Code | Course Name | Basic or optional | Knowledge | | | | Skills | | | | Ethics | | | |
| | | | | A1 | A2 | A3 | A4 | B1 | B2 | B3 | B4 | C1 | C2 | C3 | C4 |
| First stage | HURD115 | Human Rights and Democracy | support | √ | √ | | | √ | √ | √ | √ | √ | √ | √ | √ |
| | MATH112 | Mathematics I | Core learning activity | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| | WORK106 | Workshops | Support | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ |
| | COSC111 | Computer Science | Support | √ | | | | √ | √ | | | √ | √ | | |
| | EDDG114 | Eng. Drawing & Des. Geometry | Core learning activity | √ | √ | √ | | √ | √ | √ | | √ | √ | √ | |

| | | | | | | | | | | | | | | | |
|--|--------------------|------------------------|------------------------|---|---|---|---|---|---|---|---|---|---|---|---|
| | ENME123 | Engineering Mechanics | Core learning activity | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ |
| | ENEN125 | Electrical Engineering | Core learning activity | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ |
| | MATH122 | Mathematics 11 | Core learning activity | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| | WORK106 | Workshops | support | √ | √ | √ | √ | √ | √ | √ | | √ | √ | √ | √ |
| | THER114 THER124 | Thermodynamics I | Core learning activity | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| | PHYS113 | Physics | Core learning activity | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ | √ |
| | ENLA121 | English Language I | Support | | | | | | | | | √ | √ | √ | √ |

- Please tick the boxes corresponding to the individual program learning outcomes under evaluation.

