

**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

2025

Academic Program Description Form

University Name: Al-Taf University College

Faculty/Institute: Al-Taf University College Scientific Department:

Department of Anesthesia Techniques

Academic or Professional Program Name: Bachelor of Anesthesia Technology

Final Certificate Name: Bachelor of Anesthesia Technology

Academic System: semester courses

Description Preparation Date: 15/9/2025

File Completion Date: 16/9/2025



Signature:

Head of Department Name:

Samer Ahmed Jawad

Date: 16/9/2025



Signature:

Scientific Associate Name: Melak Abdulatef

Abdulhussein

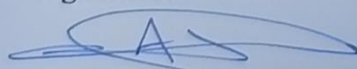
Date: 16/9/2025

The file is checked by:

Department of Quality Assurance and University Performance

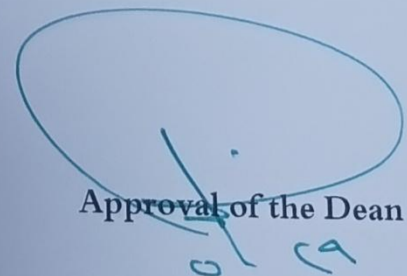
Director of the Quality Assurance and University Performance Department:

Signature:



Ahmed Muthar Obaid

Date: 27/9/2025



Approval of the Dean

Introduction:

The educational program is a well-planned set of courses that include procedures and experiences arranged in the form of an academic syllabus. Its main goal is to improve and build graduates' skills so they are ready for the job market. The program is reviewed and evaluated every year through internal or external audit procedures and programs like the External Examiner Program.

The academic program description is a short summary of the main features of the program and its courses. It shows what skills students are working to develop based on the program's goals. This description is very important because it is the main part of getting the program accredited, and it is written by the teaching staff together under the supervision of scientific committees in the scientific departments.

This guide, in its second version, includes a description of the academic program after updating the subjects and paragraphs of the previous guide in light of the updates and developments of the educational system in Iraq, which included the description of the academic program in its traditional form (annual, quarterly), as well as the adoption of the academic program description circulated according to the letter of the Department of Studies T 3/2906 on 3/5/2023 regarding the programs that adopt the Bologna Process as the basis for their work.

In this regard, we can only emphasize the importance of writing an academic programs and course description to ensure the proper functioning of the educational process.

Concepts and terminology:

Academic Program Description: The academic program description provides a brief summary of its vision, mission and objectives, including an accurate description of the targeted learning outcomes according to specific learning strategies.

Course Description: Provides a brief summary of the most important characteristics of the course and the learning outcomes expected of the students to achieve, proving whether they have made the most of the available learning opportunities. It is derived from the program description.

Program Vision: An ambitious picture for the future of the academic program to be sophisticated, inspiring, stimulating, realistic and applicable.

Program Mission: Briefly outlines the objectives and activities necessary to achieve them and defines the program's development paths and directions.

Program Objectives: They are statements that describe what the academic program intends to achieve within a specific period of time and are measurable and observable.

Curriculum Structure: All courses / subjects included in the academic program according to the approved learning system (quarterly, annual, Bologna Process) whether it is a requirement (ministry, university, college and scientific department) with the number of credit hours.

Learning Outcomes: A compatible set of knowledge, skills and values acquired by students after the successful completion of the academic program and must determine the learning outcomes of each course in a way that achieves the objectives of the program.

Teaching and learning strategies: They are the strategies used by the faculty members to develop students' teaching and learning, and they are plans that are followed to reach the learning goals. They describe all classroom and extra-curricular activities to achieve the learning outcomes of the program.

Academic Program Description Form

1. Program Vision

The Anesthesia Technology Department should be distinguished in preparing scientifically competent anesthesia technicians who are active contributors to providing anesthesia services in an effective and safe manner, and who support community service.

2. Program Mission

Preparing qualified and scientifically prepared cadres to be distinguished in the healthcare team in various hospitals. The department is also committed to

graduating trained anesthesia technology specialists to assist anesthesiologists in providing high-quality care.

3. Program Objectives

1. Preparing qualified personnel in anesthesia techniques to meet the requirements of healthcare institutions.
2. Teaching students the skills required to handle various anesthesia and intensive care cases.
3. Training students to anesthetize patients under the supervision of an anesthesiologist.
4. Conducting numerous scientific research studies and training courses to improve anesthesia practices and patient safety.
5. Enabling students to understand anesthesia equipment and how to operate them.

4. Program Accreditation

non

5. Other external influences

non

6. Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews*
Institution Requirements	6	6	14.2%	
College Requirements				

Department Requirements	34	140	80.9%	
Summer Training	4.7%	4	2	
Other				

7. Program Description

Year/Level	Course Code	Course Name	Credit Hours		
			theoretical	practical	The total
First / First Course	ATD1102	Anatomy (1)			
First / First Course	ATD1103	General physiology p(1)	2	4	6
First / First Course	ATD1104	General chemistry	2	4	6
First / First Course	ATD1101	Medical Physics (1)	2	4	6
First / First Course	MAUC1105	Biology	2	4	6
First / First Course	MAUC1106	Computer principles 1	1	2	3
First / First Course	MAUC1107	English Language	2	-	2
First / First Course	MAUC1108	Human Rights & Democracy	2	-	2
First/Second Course	ATD1102	Anatomy (2)	2	4	6
First/Second Course	ATD1103	General physiology (2)	2	4	6
First/Second Course	ATD1104	Biochemistry	2	4	6
First/Second Course	ATD1101	Medical Physics (2)	2	4	6
First/Second Course	MAUC1105	microbiology	2	4	6
First/Second Course	MAUC1106	Computer principles 2	1	2	3
First/Second Course	MAUC1107	Arabic language	2	-	2
Second/first course	ATD2101	Basics of anesthesia (1)	2	4	6
Second/first course	ATD2102	Basics of anesthetic equipment (1)	2	4	6
Second/first course	ATD2103	Basics of Medicine (1)	2	4	6
Second/first course	ATD2104	Applied Physiology (1)	2	4	6
Second/first course	ATD2105	Basics of Surgery (1)	1	4	5
Second/first course	MAUC2105	Pharmacology (1)	2	2	4
Second/first course	MAUC2106	Medical terminology	2	-	2
Second/Second Course	ATD2101	Basics of anesthesia (2)	2	4	6
Second/Second Course	ATD2102	Basics of anesthetic equipment (2)	2	4	6
Second/Second Course	ATD2103	Basics of Medicine (2)	2	4	6
Second/Second Course	ATD2104	Applied Physiology (2)	2	4	6
Second/Second Course	ATD2105	Basics of Surgery (2)	1	4	5
Second/Second Course	MAUC2105	Pharmacology (2)	2	2	4
Second/Second Course	MR 02	Arabic language	2	-	2
Second/Second Course	MR03	Statistics	1	2	3
Third/first course	ATD3102	Anesthesia(1)	2	5	7
Third/first course	ATD3103	Basics of Intensive Care (1)	2	4	6
Third/first course	ATD3104	Medicine (1)	2	4	6
Third/first course	ATD3101	Surgery (1)	1	3	4

Third/first course	MAUC3105	Anaesthetic Equipment Technology (1)	2	4	6
Third/first course	MAUC1107	Computer Applications 1	1	2	3
Third/Second Course	ATD3102	Anesthesia(2)	2	5	7
Third/Second Course	ATD3103	Basics of Intensive Care (2)	2	4	6
Third/Second Course	ATD3104	Medicine (2)	2	4	6
Third/Second Course	ATD3101	Surgery (2)	1	3	4
Third/Second Course	MAUC3105	Anaesthetic equipment Technology (2)	2	4	6
Third/Second Course	MR 04	Computer Applications 2	1	2	3
Fourth / First Course	ATD4102	Advance Anesthesia (1)	2	5	7
Fourth / First Course	ATD4103	Intensive Care Technology (1)	2	4	6
Fourth / First Course	ATD4104	Advanced anaesthetic Equipment Technology (1)	2	3	5
Fourth / First Course	ATD4101	Advance Medicine (1)	2	3	5
Fourth / First Course	ATD4105	Pain medicine	2	4	6
Fourth / First Course	MAUC4101	Professional ethics	2	-	2
Fourth / Second Course	ATD4102	Advance Anesthesia (2)	2	5	7
Fourth / Second Course	ATD4103	Intensive Care Technology (2)	2	4	6
Fourth / Second Course	ATD4104	Advanced Anaesthetic equipment Technology (2)	2	3	5
Fourth / Second Course	ATD4105	Advance Medicine (2)	2	4	6
Fourth / Second Course	MAUC4106	Emergency Medicine	2	3	5

8. Expected learning outcomes of the program	
Knowledge	
1. Understanding the principles and applications of anesthesia and the techniques used in healthcare, including physiological and pharmacological foundations. 2. Comprehensive knowledge of types of anesthesia and the appropriate preparation and application methods for each surgical or medical case. 3. Understanding emergency medical procedures and the ability to recognize the immediate needs of patients in emergency situations. 4. Familiarity with the ethical and legal standards related to the practice of anesthesia and patient care.	
Skills	
1. The ability to accurately assess patients before, during, and after surgical procedures to ensure safe and effective anesthesia. 2. Advanced technical skills in the use and maintenance of anesthesia equipment and patient monitoring. 3. The ability to communicate effectively with the healthcare team to ensure coordination and comprehensive patient care. 4. Analytical skills to evaluate clinical data and make appropriate treatment decisions under pressure.	
Ethics	
1- Explain the scientific material to students in detail. 2- Use technology in education. 3- Cooperative learning. 4- Group work and discussion strategies. 5- Brainstorming strategies. 6- Brainstorming strategies.	

9. Teaching and Learning Strategies
1- Explain the scientific material to students in detail. 2- Use technology in education. 3- Cooperative learning. 4- Group work and discussion strategies. 5- Brainstorming strategies. 6- Brainstorming strategies.

10. Evaluation methods
1- Weekly, monthly, and daily exams 2- Reports and field visits 3- Oral exams

11.Faculty
Faculty Members

Academic Rank	Specialization		Special Requirements/Skills (if applicable)		Number of the teaching staff	
	General	Special			Staff	Lecturer
Teacher Samer Ahmed Jawad	Anesthesia and Intensive Care Techniques	Anesthesia and Intensive Care Techniques			Staff	
Assistant Professor Miri Hamidi Awda	Arabic Language	Philosophy of Arabic Language			Staff	
Teacher Ahmed Shihab Ahmed	Anesthesia and Intensive Care Techniques	Anesthesia and Intensive Care Techniques			Staff	
Teacher Haider Bakhit Abbas	Life Sciences	Microbiology			Staff	
Teacher Rawad Musa Hassan	Biology Sciences	Molecular Biology			Staff	
Teacher Taha Abdullah Ali	Anesthesia and Intensive Care	Anesthesia and Intensive Care			Staff	
Teacher Ahmed Muthar Obaid	Chemistry	Biology			Staff	
Teacher Ghaith Karim Abdul Hassan	Biology Sciences	Molecular Biology			Staff	
Teacher Ali Salam Obaid	Nursing	Internal Medicine and Surgical Nursing			Staff	
Teacher Heba Mohamed Reda	Anesthesia and Intensive Care Techniques	Anesthesia and Intensive Care Techniques			Staff	
Teacher Mary Hamidi Awda	Arabic Language	Philosophy of Arabic Language			Staff	
Assistant teacher Ahmed Jabbar Mahdi	Biology Sciences	Microbiology			Staff	

Assistant teacher Aseel Khaled Hamid	Anesthesia and Intensive Care Techniques	Inorganic			Staff	
Assistant teacher Benin Ahmed Hussein	Management and Economics	Organic			Staff	
Assistant teacher Hussein Mansour Madkour	Biology Sciences	Microbiology			Staff	
Assistant teacher Khaled Jabbar Salem	Biology Sciences	Animal Physiology			Staff	
Assistant teacher Ruwa Abdul Abbas Karim	Biological Sciences	Anesthesia Techniques			Staff	
Assistant teacher Zaman Salah Musleh	Anesthesia Techniques	Analytical			Staff	
Assistant teacher Salah Saket Mashkoor	Nursing	Biology			Staff	
Assistant teacher Diaa Shaker Mashraa	Chemistry	Mechatronics Engineering			Staff	
Assistant teacher Diaa Shaltagh Shanan	Control and Systems	Quranic Sciences			Staff	
Assistant teacher Tayba Khudair Abdul Abbas	Quranic Sciences	Philosophy of Arabic Language			Staff	
Assistant teacher Abdul Wahid Ziara Iskandar	Arabic Language	Nursing Sciences			Staff	
Assistant teacher Ali Hajem Shamkhi	Nursing	Microbiology			Staff	
Assistant teacher Ali Abbas Miran	Biology Sciences	Information Networks			Staff	
Assistant teacher Ali Abdul Hussein Yahya	Information Technology	Sciences in Adult Nursing			Staff	
Assistant teacher Murtadha Khudair Abbas	Nursing	Microbiology			Staff	
Assistant teacher Mustafa Qahtan Hashem	Biology Sciences	Anesthesia and Intensive Care Techniques			Staff	
Assistant teacher Muhand Ghazi Ibrahim	Anesthesia and Intensive Care Techniques	Pediatric Nursing			Staff	
Assistant teacher Muayyad Abdul Jabbar Abdul Hassan	Nursing	Microbiology			Staff	

Assistant teacher Heba Mohammed Reda	Anesthesia and Intensive Care Techniques	Anesthesia and Intensive Care Techniques			Staff	
Assistant teacher Ibtihal Talib Najm	Chemistry	Biology			Staff	
Assistant teacher Aseel Khaled Hamid	Anesthesia and Intensive Care Techniques	Microbiology			Staff	
Assistant teacher Benin Ahmed Hussein	Chemistry	Anesthesia and Intensive Care			Staff	
Assistant teacher Hussein Mansour Madkour	Biology Sciences	Food Sciences			Staff	
Assistant teacher Khaled Jabbar Salem	Biology Sciences	Molecular Biology			Staff	
Assistant teacher Ruwa Abdul Abbas Karim	Anesthesia and Intensive Care	Anesthesia and Intensive Care Techniques			Staff	
Assistant teacher The zamen of Salah Musleh	Chemistry	Internal Medicine and Surgical Nursing			Staff	
Assistant teacher Salah Saket Mashkoo	Biology Sciences	Anesthesia and Intensive Care Techniques			Staff	
Assistant teacher Diaa Shaker Mashra`	Anesthesia and Intensive Care Techniques	Anesthesia and Intensive Care Techniques			Staff	
Assistant teacher Diaa Shaltagh Shanan	Nursing	Philosophy of Arabic Language			Staff	
Assistant teacher Taybah Khadir Abdul Abbas	Arabic Language	Microbiology			Staff	
Assistant teacher Abdul Wahid Ziara Iskandar	Anesthesia and Intensive Care Techniques	Anesthesia and Intensive Care Techniques			Staff	
Assistant teacher Ali Hajim Shamkhi	Anesthesia and Intensive Care Techniques	Inorganic			Staff	
Assistant teacher Ali Abbas Miran	Arabic Language	Statistics			Staff	
Assistant teacher Ali Abdul Hussein Yahya	Biology Sciences	Organic			Staff	

Assistant teacher Mortada Khadir Abbas	Anesthesia and Intensive Care Techniques	Physiology			Staff	
Assistant teacher Mustafa Qahtan Hashim	Anesthesia and Intensive Care Techniques	Microbiology			Staff	
Assistant teacher Muhanad Ghazi Ibrahim	Chemistry Sciences	Animal Physiology			Staff	
Assistant teacher Muayyad Abdul Jabbar Abdul Hassan	Management and Economics	Anesthesia Techniques			Staff	
Assistant teacher Heba Mohammed Reda	Biology Sciences	Pediatric Nursing			Staff	
Assistant teacher Ibtihal Talib Najm	Biological Sciences	Mechatronics Engineering			Staff	

Professional Development

Mentoring new faculty members

Mentoring Programs: Assigning a mentor to each new faculty member to help them adapt to the university's work environment and educational practices.

Orientation Sessions: Organizing regular sessions that cover teaching basics, classroom management, and assessment strategies.

Resource Introductory Workshops: Providing information about available educational resources, including educational technology, libraries, and research centers.

Professional development of faculty members

- 1– Workshops and Training Courses: Providing specialized training courses on the latest technologies and innovations in anesthesia and healthcare.
- 2– Conferences and Seminars: Encouraging attendance and participation in national and international conferences to exchange experiences and learn about new developments.
- 3– Scientific Research: Supporting faculty members in conducting scientific research, publishing research papers, and participating in joint research projects.
- 4– Performance Evaluation and Feedback: Implementing a system to periodically evaluate faculty performance and provide constructive feedback to improve their teaching skills.
- 5– E-Learning Platforms: Using technology to provide continuous educational resources and online training courses.
- 6– Digital Collaboration Tools: Encouraging the use of digital tools to improve communication among faculty members and facilitate collaboration in research and educational projects.

12. Acceptance Criterion

1. Academic Requirements:

High School Certificate: Applicants must have a high school (preparatory) certificate.

Grades: Achieve a certain high school GPA equal to or higher than 70.

Interview with the student to determine their personal and physical qualifications.

13. Main Sources of Information About the Program

13. The most important sources of information about the program

1 "Gray's Anatomy for Students"

2- "Guyton and Hall Textbook of Medical Physiology"

3- "Medical Microbiology" by Murray .

4- "Miller's Anesthesia" .

5- "Critical Care Medicine: Principles of Diagnosis and Management in the Adult" by Joseph E. Parrillo

6- "Anesthesia Equipment: Principles and Applications" by Jan.Ehrenwerth

7- "Schwartz's Principles of Surgery" .

8- "Harrison's Principles of Internal Medicine"

9- "Lehninger Principles of Biochemistry" by Nelson and Cox .

10- "Medical Physics" by John Cameron

14. Program Development Plan

1. Curriculum Update:

Review and update the curriculum to include the latest developments in anesthesia and intensive care.

Introduce new courses that focus on advanced techniques and new practices in anesthesia.

2. Enhance Practical Training:

Increase opportunities for practical training through collaboration with hospitals and healthcare centers.

Develop simulation stations to train students to face various medical scenarios in a controlled environment.

3. Improve Infrastructure and Resources:

Update the equipment and tools used in teaching and training to include the latest available technologies.

Expand the digital library with specialized scientific resources in anesthesia and medicine.

4. Enhance Research Collaboration:

Establish research partnerships with other institutions to promote research in anesthesia.

Support research publication and participation in international conferences to enhance the program's global standing.

5. Faculty Development:

Continuous training programs for faculty members to update their teaching and research knowledge and skills.

Attend international experts to conduct workshops and guest lectures.

6. Enhancing assessment and monitoring:

Develop assessment systems that better reflect progress and efficiency in achieving learning outcomes.

Introduce student feedback mechanisms to improve the quality of education and the academic environment.

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 / First Course	ATD1102	Anatomy (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First / First Course	ATD1103	General physiology p(1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First / First Course	ATD1104	General chemistry	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First / First Course	ATD1101	Medical Physics (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First / First Course	MAUC1105	Biology	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First / First Course	MAUC1106	Computer principles 1	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First / First Course	MAUC1107	English Language	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First / First Course	MAUC1108	Human Rights & Democracy	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First/Second Course	ATD1102	Anatomy (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First/Second Course	ATD1103	General physiology (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First/Second Course	ATD1104	Biochemistry	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First/Second Course	ATD1101	Medical Physics (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

First/Second Course	MAUC1105	microbiology	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First/Second Course	MAUC1106	Computer principles 2	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
First/Second Course	MAUC1107	Arabic language	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/first course	ATD2101	Basics of anesthesia (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/first course	ATD2102	Basics of anesthetic equipment (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/first course	ATD2103	Basics of Medicine (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/first course	ATD2104	Applied Physiology (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/first course	ATD2105	Basics of Surgery (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/first course	MAUC2105	Pharmacology (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/first course	MAUC2106	Medical terminology	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/Second Course	ATD2101	Basics of anesthesia (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/Second Course	ATD2102	Basics of anesthetic equipment (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/Second Course	ATD2103	Basics of Medicine (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/Second Course	ATD2104	Applied Physiology (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/Second Course	ATD2105	Basics of Surgery (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/Second Course	MAUC2105	Pharmacology (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Second/Second Course	MR 02	Arabic language	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Second/Second Course	MR03	Statistics	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/first course	ATD3102	Anesthesia(1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/first course	ATD3103	Basics of Intensive Care (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/first course	ATD3104	Medicine (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/first course	ATD3101	Surgery (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/first course	MAUC3105	Anaesthetic Equipment Technology (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/first course	MAUC1107	Computer Applications 1	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/Second Course	ATD3102	Anesthesia(2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/Second Course	ATD3103	Basics of Intensive Care (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/Second Course	ATD3104	Medicine (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/Second Course	ATD3101	Surgery (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/Second Course	MAUC3105	Anaesthetic equipment Technology (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Third/Second Course	MR 04	Computer Applications 2	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / First Course	ATD4102	Advance Anesthesia (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Fourth / First Course	ATD4103	Intensive Care Technology (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / First Course	ATD4104	Advanced anaesthetic Equipment Technology (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / First Course	ATD4101	Advance Medicine (1)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / First Course	ATD4105	Pain medicine	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / First Course	MAUC4101	Professional ethics	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / Second Course	ATD4102	Advance Anesthesia (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / Second Course	ATD4103	Intensive Care Technology (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / Second Course	ATD4104	Advanced Anaesthetic equipment Technology (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / Second Course	ATD4105	Advance Medicine (2)	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
Fourth / Second Course	MAUC4106	Emergency Medicine	Basic	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓