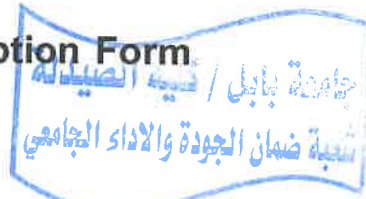


Academic Program Description Form



University Name: University of Babylon
College/Institute: College of Pharmacy
Scientific Department: College with a single scientific department
Name of Academic or Professional Program: Bachelor of Pharmacy
Name of Final Certificate: Bachelor's Degree
Study System: Semester (Courses)
Date of Description Preparation: - -2024
Date of File Completion: - - 2024:

Signature:

Name of quality assurance

division Officer:

Assistant Professor Dr. Ruqaya

Munther Jalil

Date: 2024-2025

Signature:

Name of Scientific

Assistant: Assistant

Professor Dr. Ayman Amer

Mohammed Ali

Date: 2024-2025

The file is checked by:

Department of Quality Assurance and University Performance

Director of the Quality Assurance and University Performance Department:

Date:

Signature:

Approval of the Dean

1. Program Vision

Creativity, leadership, and excellence in pharmaceutical education, scientific research, and community service at the local and regional levels, aiming to maintain its status as a prestigious college at the national level.

Achieving global standards in pharmaceutical education and scientific research in the field of specialization while improving services that ensure the optimal use of medications and their benefits and rationalizing consumption. Equipping graduates with the theoretical and practical foundations to produce competent pharmacists capable of providing pharmaceutical and health services to patients.

Creativity, excellence, and innovation in higher education and scientific research, providing distinguished research to serve the community at the local and regional levels, thereby achieving a high status for the college within the academic education system under the framework of quality management.

2. Program Mission

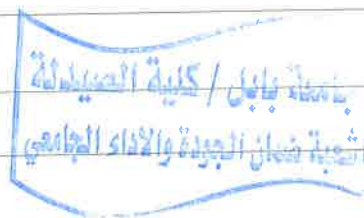
The mission of the College of Pharmacy is to train pharmacists well through practical and laboratory scientific programs that will help them secure employment as licensed pharmacists with high competence, capable of contributing to the medical team in improving healthcare for the community and competing in pharmaceutical job fields. They also have the experience to work in education and scientific research (as researchers and academics), in the pharmaceutical and food industries, or in analytical or diagnostic laboratories (as lab directors), in addition to practicing the profession in public hospitals and pharmacies (as pharmacists).

3. Program Objectives

Academic Program: The Bachelor of Pharmacy program aims to provide a high level of general and fundamental skills and experiences, both theoretical and laboratory-based, relying on the latest scientific data. It also includes teaching specific scientific skills related to pharmaceutical sciences, such as clinical pharmacy, pharmaceutical chemistry, pharmacology, toxicology, etc., enabling graduates to work directly in government-affiliated hospital pharmacies and private pharmacies, or to choose careers in research, pharmaceutical industries, and related sciences such as public health and laboratory specialization, etc.

4. Program Accreditation

In the process of getting it



5. Other external influences

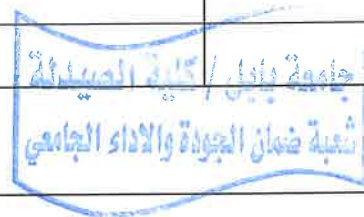
The College of Pharmacy strives, within its available medical and academic capabilities, to achieve excellence in higher education, instill academic values, adopt and keep up with innovation in research and scientific advancement, respond to contemporary developments, and prepare graduates according to total quality management standards in various fields of pharmaceutical sciences needed by the educational and health institutions of the state, particularly in Babil Health Directorate and our city specifically.

6 Program Structure

Program Structure	Number of Courses	Credit hours	Percentage	Reviews•
Institution Requirements	6	9	10%	College One scientific department
College Requirements	66	185	90%	

Department Requirements	66	185	90%	
Summer Training	None	None		
Other				

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



8. Expected learning outcomes of the program

Knowledge

1. Knowledge of medical terminology.
2. Understand modern methods in practical applications.
3. Classification of special requirements and pharmacy requirements

7. Program Description

Learning Outcomes 2	Learning Outcomes Statement 2
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Learning Outcomes 3	Learning Outcomes Statement 3
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Learning Outcomes 4	Learning Outcomes Statement 4
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Learning Outcomes 5	Learning Outcomes Statement 5
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The First stage / First course

Unit s	Practica l hours	Theoretic al hours	Course Name	Course Code	N
3	2	2	Human Biology	PhHb1B00001(2+2)	1
2	---	2	Principles of Pharmacy Practice	PhPpp1B00002(2+0)	2
4	2	3	Analytical Chemistry	PhAc1B00003(3+2)	3
3	---	3	Mathematics and Biostatistics	PhMb1B00005(3+0)	4
1	---	1	Medical Terminology	PhMt1B00006(1+0)	5
2	---	2	Democracy and Human rights	PhDhB00000(2+0)	6
15	4	13			Total

The First Stage / Second Course

Unit s	Practica l Hours	Theoretic al hours	Course Name	Course Code	N
2	2	1	Human anatomy	PhHa1B00009(1+2)	1
3	2	2	Pharmaceutical Calculations	PhPc1B000010(2+2)	2
3	2	2	Medical Physics	PhMp1B000011(2+2)	3
4	2	3	Organic Chemistry I	PhOcl1B00012(3+2)	4
3	2	2	Histology	PhH1B00013(2+2)	5
1	2	-----	Computer Sciences II	PhCs1B000014(0+2)	6
17	12	10			Total

The Second stage / First course

Unit s	Practica l hours	Theoretic al hours	Course Name	Course Code	N
4	2	3	Organic Chemistry II	PhOci2B00016(3+2)	1
4	2	3	Medical Microbiology I	PhMm2B00017(3+2)	2
4	2	3	Physical Pharmacy I	PhPpi2B00018(3+2)	3
4	2	3	Physiology I	PhPhi2B00019(3+2)	4
2	-----	2	Al-Baath Party Crimes	PhHr1B00015(1+0)	5
1	2	---	Computer Sciences III	PhCsi2B00021 (0+2)	6
19	10	14			Total

The Second Stage / Second Course

Unit s	Practica l Hours	Theoretic al hours	Course Name	Course Code	N
3	2	2	Organic Chemistry III	PhOcii2B00022(2+2)	1
4	2	3	Medical Microbiology II	PhMvp2B00023(2+2)	2
4	2	3	Physical Pharmacy II	PhPpii2B00024(3+2)	3
4	2	3	Physiology II	PhPhii2B00025(3+2)	4
4	2	3	Pharmacognosy I	PhPhi2B00026(3+2)	5
1	2	---	Computer Sciences IV	phCsi2B00027 (0+2)	6
2	---	2	Arabic language	phAr1B00008(2+0)	7
22	12	16			Total

The Third Stage / First Course					
Unit s	Practica l hours	Theoretic al hours	Course Name	Course Code	N
3	2	2	Inorganic Pharmaceutical Chemistry	Phlpc3B00029 (2+2)	1
3	2	2	Pharmacognosy II	PhPhii3B00030(2+2)	2
4	2	3	Pharmaceutical Technology I	PhPt3B00031(3+2)	3
4	2	3	Biochemistry I	PhBii3B00032(3+2)	4
4	2	3	Pathophysiology	PhPa3B00033(3+2)	5
18	10	13			Total

The Third Stage / Second Course					
Unit s	Practica l Hours	Theoretic al hours	Course Name	Course Code	N
4	2	3	Organic Pharmaceutical Chemistry I	PhOpci3B00035(3+2)	1
3	---	3	Pharmacology I	PhPhi3B00036(3+0)	2
4	2	3	Pharmaceutical Technology II	PhPtii3B00037 (3+2)	3
4	2	3	Biochemistry II	PhBiii3B00038(3+2)	4
3	2	2	Pharmacognosy III	PhPhiii3B00039(2+2)	5
1	---	1	Pharmacy Ethics	PhPe3B00040(1+0)	6
19	8	15			Total

The Fourth Stage / First Course					
Unit s	Practica l hours	Theoretic al hours	Course Name	Course Code	N
4	2	3	Pharmacology II	PhPhii4B00041(3+2)	1
4	2	3	Organic Pharmaceutical Chemistry II	PhOpcii4B00042(3+2)	2
3	2	2	Clinical Pharmacy I	PhCpi4B00043(2+2)	3
3	2	2	Biopharmaceutics	PhBi4B00044(2+2)	4
2	----	2	Public Health	PhPh4B00045(2+0)	5
16	8	12			Total

The Fourth Stage / Second Course					
Units	Practical Hours	Theoretic al hours	Course Name	Course Code	N
2	---	2	Pharmacology III	PhPhiii4B00046(3+2)	1
4	2	3	Organic Pharmaceutical Chemistry III	PhOpciii4B00047(3+2)	2
3	2	2	Clinical Pharmacy II	PhCpii4B00048(2+	3

				2)	
3	2	2	General Toxicology	PhGt4B00049(2+2)	4
4	2	3	Industrial Pharmacy I	PhIpi4B00050(3+2)	5
2	---	2	Communication Skills	PhCs4B00051(2+0)	6
-----	-----	----	Summer Training	-----	7
18	8	14			Total

The Fifth Stage / First Course

Unit s	Practica l hours	Theoretic al hours	Course Name	Course Code	N
2	----	2	Organic Pharmaceutical Chemistry IV	PhOpciv5B00053(2+0)	1
4	2	3	Industrial Pharmacy II	PhIpii5B00054(3+2)	2
3	----	3	Applied Therapeutics I	PhAti5B00055(3+0)	3
3	2	3	Clinical Chemistry	PhCc5B00056(3+2)	4
3	2	2	Clinical Toxicology	PhCt5B00057(2+2)	5
16	6	13			Total

The Fifth Stage / Second Course

Units	Practical Hours	Theoretic al hours	Course Name	Course Code	N
2	----	2	Applied Therapeutics II	PhAtii5B00058(2+0)	1
2	-----	2	Pharmacoeconomic	PhPh5B00059(2+0)	2
3	2	2	Therapeutic Drug Monitoring	PhTdm5B00060(2+2)	3
4	2	3	Advanced Pharmaceutical Analysis	PhApa5B00061(3+2)	4
2	4	----	Clinical Laboratory Training	PhClt5B00062(0+4)	5
2	----	2	Dosage Form Design	PhDfd5B00063(2+0)	6
1	----	1	Pharmaceutical Biotechnology	PhPb5B00064(1+0)	7
2	4	---	Hospital Training	PhHt5B00065(0+4)	8
1	-----	1	Graduation project	-----	9
-----	-----	-----	Summer Training	-----	10
19	12	13			Total

8. Expected learning outcomes of the program

Knowledge

The cognitive objectives.

1. Knowledge of medical terminology.
2. Understand modern methods in practical applications.
3. Classification of special requirements and pharmacy requirements.

Skills

1. Provide basic characteristics of pharmacy practice 2. Developing the students' abilities to understand physiological functions of the body. 3. Understand fundamental and clinical sciences thus enabling graduates to be successful in the profession and provide quality pharmaceutical care to the society.

Values

- 1-Verbal communication Student will be able to express his idea clearly and confidently in speech
2. Team work Work confidently with in group
3. Analyzing and investigating Collect information systematically to establish facts and principles, solution problem.

9. Teaching and Learning Strategies

1. Lecture presentation
2. Student center
3. Team project
4. Research and experimental learning
5. Clinical application
6. Teaching a new technologies

10. Evaluation methods

Implemented at all stages of the program in general.

- 1-Mid-term exam
- 2- Final term exam
- 3- Daily quizzes
- 4-Reports

11. Faculty					
Faculty Members					
Faculty Members names	Specialization		Type of higher degree	Number of the teaching staff	
	General	Special		Staff	Lecturer
Ahmad Hassan Awda Zaal Al-Ghanimi	Computers	Information Systems	Master's	staff	
Asma Hashim Hamadi Abdullah Al-Alwani	Chemistry	Philosophy in Chemistry	PhD	staff	
Ismail Aoun Jabr Ibrahim Al-Obeidi	Pharmacy	Pharmacology and Toxicology	PhD	staff	
Aseel Fadel Karim Hassan Al-Khafaji	Chemistry	Philosophy in Chemistry	PhD	staff	
Aseel Mohammed Imran Naji Al-Tai	Biology	Philosophy in Biology	PhD	staff	
Alaa Hamadi Ubaid Hassan Al-Tai	Biology	Zoology	PhD	staff	
Amal Taleb Atiyah Naim Al-Saadi	Biology	Philosophy in Microbiology	PhD	staff	
Ayman Amer Mohammed Ali Bash	Pharmacy	Pharmacology	PhD	staff	
Inas Najm Ubaid Ashour Fanharawi	Pharmacy	Undefined	PhD	staff	
Hussam Abdul Razzaq Abdul Amir Ali Al-Turjumaan	Physics	Solid State Physics / Thin membranes	Master's	staff	
Hussam Wahab Sahib Tawfiq Al-Hamadi	General Medicine and Surgery	Pharmacology	PhD	staff	
Haidar Abbas Alwan Hamza Murshidi	Chemistry	Chemistry	PhD	staff	
Haidar Abdul Amir Maki Jawad Al-Hindi	General Medicine	Philosophy in Medical Physiology	PhD	staff	
Haidar Obies Hashim Najm Al-Shammari	Biology	Philosophy in Biology	PhD	staff	
Khinasa Hatim Abdul Jabbar Hussein Al-Khafaji	Veterinary Medicine	Physiology	Master's	staff	
Durar Abdullah Hamza Jabr Al-Qaraghuli	Islamic Sciences	Undefined	Master's	staff	
Rasha Abdul Mahdi Faleh Jasim Al-Kaabi	Biology	Microbiology	PhD	staff	
Rasha Hadi Saleh Abdul Al-Eisawi	Microbiology	Microbiology	PhD	staff	
Raghdan Zaki Jalab	Pharmacy	Pharmacology	PhD	staff	

Mohsen Al-Saad					
Rafah Saleem Hassan Jaber Al-Mutairi	Biology	Zoology	PhD	staff	
Rafal Ahmed Abdul-Kadhim Abdul-Ridha Al-Asali	Physics	Laser Physics	Master's	staff	
Rafal Jalil Jabar Taher Al-Saigh	General Medicine and Surgery	Microbiology	PhD	staff	
Ruqayya Munther Jalil Abdul-Abbas Awad	Biology	Philosophy in Biology	PhD	staff	
Rana Sahib Khalaf Habib Al-Shammari	Chemistry	Analytical Chemistry	PhD	staff	
Zaman Ibrahim Lafi Alwan Al-Kaabi	Biology	Philosophy in Microbiology	PhD	staff	
Ziyad Hassan Abdullah Makoot Nafei	Chemistry	Biochemistry	Master's	staff	
Samah Ahmed Kadhim Hassan Al-Jubouri	Biology	Microbiology	PhD	staff	
Shakir Awad Abdul-Hussein Dawood Al-Muslim	Pharmacy	Pharmaceutical Chemistry	PhD	staff	
Shafaq Kadhim Saleh Mahdi Al-Azzawi	Pharmacy	Biochemistry	PhD	staff	
Saba Abdul-Mun'im Habib Aziz Al-Qaisi	Chemistry	Applied Chemistry	Master's	staff	
Safa Wahab Aziz Karim Al-Qaim	Chemistry	Biochemistry	PhD	staff	
Dhafir Qahatan Said Al-Ameen Al-Mashita	Pharmacy	Biochemistry	PhD	staff	
Asem Alaa Abdul-Hussein Salman Balakt	Chemistry	Organic Chemistry	PhD	staff	
Abbas Hamid Abdul-Sada Kadhim Al-Shammari	Pharmacy	Pharmaceutical Chemistry	Master's	staff	
Adi Adnan Mahdi Haran Al-Jubouri	Veterinary Medicine	Genetic Engineering and Biotechnology	PhD	staff	
Essam Fadel Khalifa Hassan Al-Bu Abdullah	Pharmacy	Pharmaceutical Chemistry	PhD	staff	
Ali Jadou' Aifan Sultan Al-Shammari	Curricula and Methods of Teaching Art Education	Curricula and Methods of Teaching Art Education	PhD	staff	
Ali Hadi Saud Hlo Al-Saadoun	Chemistry	Chemistry Science	Master's	staff	
Ammar Sabah Karim Naji Khamis	Pharmacy	Clinical Laboratory Science	Master's	staff	
Ammar Abdul Karim Hadi Hamoud Al-Husseini	Pharmacy	Pharmacology and Toxicology	PhD	staff	
Ghada Hamid Naji	Pharmacy	Pharmaceutics	Master's	staff	

Kazem Al-Adhari					
Ghassan Jassim Mohammed Ali Al- Azzawi	Chemistry	Undefined	Master's	staff	
Fakher Maktoof Shmran Haboub Al-Shammari	Biology	Philosophy in Biology	PhD	staff	
Fatima Al-Zahra Jabar Jassim Mohammed Hassan Makawi	Chemistry	Philosophy in Chemistry Sciences	PhD	staff	
Fatima Adnan Ali Hamza Al-Zubaidi	Pharmacy	Pharmacology and Toxicology	PhD	staff	
Firas Faleh Abdul Ali Ashkha Al-Mamouri	Pharmacy	Pharmaceutical Sciences	Master's	staff	
Qassem Jawad Fadl Mohammed Al-Dhami	Chemistry	Philosophy in Chemistry Sciences	PhD	staff	
Qaisar Joudah Fadhel Barboot Dahmouh	Pharmacy	Pharmacology	PhD	staff	
Lina Fadel Hamza Hamadi Al-Jubouri	Veterinary Medicine	Philosophy in Biology	PhD	Staff	
Mazen Jafar Mousa Jafar Meera	General Medicine and Surgery	Pathological Tissues	Fellow	staff	
Mohammed Obies Hamza Ismail Al-Nafai	Chemistry	Physical Chemistry	PhD	staff	
Manar Radi Shanon Mohammed Al-Yasiri	Biology	Microbiology	Master's	staff	
Nadia Hassan Kazem Damij Kredi	Chemistry	Clinical Biochemistry	Master's	staff	
Noor Hadi Issa Abbas Al- Shammari	Physics	Philosophy in Physics Sciences	PhD	staff	
Hajir Karim Abdul Hussein Shnawa Al- Eisawi	Pharmacy	Pharmaceutical Sciences	Master's	staff	
Hala Dawood Salman Abdul Al-Dulaimi	Biology	Philosophy in Microbiology	PhD	staff	
Hala Saad Mohammed Ali Bash	Pharmacy	Pharmaceutical Sciences	Master's	staff	
Hayam Ghanem Karim Hassan Al-Mousawi	Biology	Botany	Master's	staff	
Abeer Tariq Mahdi Abdul Hussein Watifi	Pharmacy	Pharmaceutical Sciences	Master's	staff	
Ahmad Sudan Abbas Mohammed Ubaid	Pharmacy		Master's	staff	

N	Faculty Members names	University Order Number for Assignment	Date of University Order	start Date	Type of higher degree	General Specialization
١	Rasha Fadel Obaid	5128	٢٠٢٣/٢/٢٣	٢٠٢٣/٢/٢٣	PhD	Biology
٢	Aamer Moussa Ali Aboud	5128	٢٠٢٣/٢/٢٣	٢٠٢٣/٢/٢٣	PhD	Chemistry
٣	Zahra Majid Abdul Amir Shakir	8643	2023/04/11	2023/04/5	Master's	Veterinary Medicine
٤	Sabreen Hassan Hoidi Farhan	8643	2023/04/11	2023/04/5	Master's	Veterinary Medicine
5	Hala Razaq Mohammed Jassim	8643	2023/04/11	2023/04/5	Master's	Biology
6	Taif Hussein Amin Khudair	8643	2023/04/11	2023/04/5	PhD	Biology
7	Hajir Bassim Maksed Naif	8643	2023/04/11	2023/04/5	Master's	Biology
8	Ataa Khalil Hussein Jassim	8643	2023/04/11	2023/04/5	PhD	Biology
9	Ali Ahmed Naif Kazem	8643	2023/04/11	2023/04/5	Master's	Biology
10	Ola Abbas Khudair Abbas	8643	2023/04/11	2023/04/5	PhD	Biology
١١	Ola Abdullah Mahdi Daresh	8643	2023/04/11	2023/04/5	PhD	Biology
12	Rawaa Jabbar Abdullah Radi	8643	2023/04/11	2023/04/5	Master's	Chemistry
13	Lina Abbas Hassan Khayef	8643	2023/04/11	2023/04/5	Master's	Chemistry
14	Noor Abdul Redha Ibrahim Ahmed	٨٧٩٦	٢٠٢٣/٤/١٦	٢٠٢٣/٤/١٨	PhD	Biology
15	Thafar Mohammed Hassan Abdul Hussein	٨٧٩٦	٢٠٢٣/٤/١٦	٢٠٢٣/٤/١٨	Master's	Biology
16	Isra Rafed Abbas Abd	8643	2023/04/11	2023/04/5	Master's	Chemistry
17	Ahd Kamel Rahi Abdul Ali	8643	2023/04/11	2023/04/5	Master's	Chemistry
18	Noor Hassan Ali Hussein	8643	2023/04/11	2023/04/5	Master's	Biology

19	Shahd Ahmed Mazhar Alwan	92.6	2023/4/19	2023/4/16	Master's	Biology
20	Shahd Taha Mahdi	8365	2023/04/6	2023/02/4	Bachelor's	Mechanical Engineering
21	Zainab Yaasoub Jassim	8643	2023/04/11	2023/4/30	Master's	Chemistry
22	Mina Imad Nouri Saleh	10778	2023/05/16	2023/05/14	Master's	Agriculture
23	Jaafar Sadiq Hashim Fadel	10778	2023/05/16	2023/05/14	Master's	Law
24	Duaa Nasr Wahab Jaber	8796	2023/04/16	2023/05/20	Master's	Chemistry
25	Zainab Majid Abdul Ali Hardan	12331	2023/05/30	2023/05/31	Master's	Law
26	Saif Sahib Radi	8643	2023/04/11	2023/04/3	Master's	Chemistry

Professional Development

Mentoring new faculty members

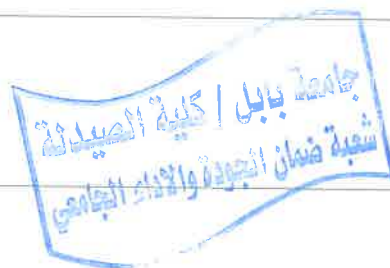
Briefly describes the process used to mentor new, visiting, full—time, and part—time faculty at the institution and department level.

Professional development of faculty members

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

12. Acceptance Criterion

Central admission



13. The most important sources of information about the program

The College of Pharmacy at the University of Babylon is the first college of pharmacy in Babylon Governorate and one of the most important main sources that provide the country with qualified pharmaceutical cadres that contribute to enhancing health and pharmaceutical services at the clinical level and the pharmaceutical industry. The college was established in 2008, thus completing the medical group that includes the College of Medicine, Dentistry and the College of Nursing. The academic system followed in the college is the semester system (courses). The college provides the health sector, medical centers and hospitals, in addition to private pharmacies, with highly qualified pharmacists.

14. Program Development Plan

1- A twinning cooperation agreement with the University of the Future - College of Pharmacy to enhance work through a research team, as well as the intention to establish a joint scientific journal with a select group of staff to publish research from both colleges.

2- The college seeks to open avenues for international cooperation with its global counterparts and to train its staff and students at the most prestigious medical and pharmaceutical universities and institutes, as well as well-known global companies.

3- Continuing cooperation with the health sector where appointments are centralized, and top students have a percentage in appointments at universities.

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	PhHb1B000	Human Biology	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	01(2+2)														
Second	PhPpi2B0001	Physical Pharmacy I	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	8(3+2)														
Third	PhPt3B00031	Pharmaceutical Technology I	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	(3+2)														
Fourth	PhPhii4B0004	Pharmacology II	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	1(3+2)														
The Fifth Stage	PhAti5B0005	Applied Therapeutics II	Basic	*	*	*	*	*	*	*	*	*	*	*	*
	8(2+0)														

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

