



**Bachelor of Science in
Applied Biotechnology
(Credit Hours System)
Ministerial Decision
No. (4815) dated
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The Ain Shams University Faculty of Science program is distinguished from the corresponding programs that it presents for the first time an integrated program dealing with biomedical sciences and applied biotechnology. It also sheds light on the neonatal science known as nanotechnology.

1- Vision

The Applied Biotechnology Program offers a distinct breakthrough in the applied fields of biological sciences, which has the potential to be used in the agricultural, medical and industrial fields at the national and regional levels as required by the labor market.

2- Mission

The Applied Biotechnology Program provides students with scientific and professional knowledge and skills in the use and modification of living cells and microorganisms for the production of vital products, as well as the use of microorganisms and others in the recycling and treatment of organic and inorganic waste and the purification of industrial contaminants and the production of genetically modified plants and resistance to inappropriate environmental conditions.

3- Objectives of the Program

➤ The goal of the program is to put Egypt on the global map of biotechnology sciences and applications.

➤ The Program aims to Prepare a distinguished graduate capable of using modern applications in the fields of biotechnology to ensure the development of research and industrial production excellence and find solutions to problems in these areas at the local and international levels.

➤ Also, the program contributes to the mission of the college which provides specialized professional programs to meet the local needs and work to develop and modernize their programs to adapt to the changing needs of society and to keep abreast of progress in the branches of modern science.

4- Characteristics of the program

➤ The new program contains courses related to the applied biotechnology requested by the labor market.

➤ The program is based on teaching participation from applied experts in companies and bodies working in the field of biotechnology.

➤ The program depends on the participation of the five biological departments in the faculty in teaching, which gives the efficiency and strength and experience and excellence of the graduate.

➤ The program, in the credit hours system, gives a special graduate because it has the right to study many elective hours.

➤ The program provides the student with practical training in the college labs and field

training in the companies and bodies concerned in addition to the project graduation program.

➤ Professor Dr. Mostafa El-Sayed, the global expert in the field of nanotechnology and its applications, is teaching in the program.

5- Description of the program

➤ The student receives a Bachelor of Science in Applied Biotechnology when he passes 138 credit hours divided into four levels and eight semesters by:

➤ 16 hours (8 credit courses) of University requirements (English I - English II - Communication and presentation skills - Analysis and research skills - Principles of law and human rights - Computer skills - Professional ethics - First aid skills)

➤ 18 hours of general basic science (3 hrs. Mathematics - 3 hrs. Physics - 3 hrs. Chemistry - 9 hrs. Biology).

➤ 104 hours of compulsory and optional courses in the specialization.

6- Study and registration

➤ Each student will be assigned an academic advisor when he/she is enrolled in the program, which will assist him in selecting the courses and solving the problems that he/she may face.

➤ Some courses may be offered that students may need in a summer semester.

➤ Each student submits an application for the program and the legal commitment to the affairs of students.

➤ The students will pay the fees for the educational service determined by the College Council in calculating the cost of each credit hour.

7- Entry requirements

➤ The registration of students with a high school certificate is allowed under the Law of Organizing Universities for Students with the necessary legal commitment by the student when joining the program by complying with all conditions related to this type of education and paying the required tuition fees throughout the study period.

➤ The differentiation and distinction between the students of the program is divided into a total of grades for the general secondary school plus the English language. The program management may conduct internal tests for students to measure the cognitive aspect and scientific thinking within the conditions of differentiation.

➤ Students with bachelor's degrees may be admitted with a good grade of at least one of the faculties of science or other practical colleges to study at the college if they complete full time and complete the military service or public service for female graduates or exemption from them.

➤ Students from outside the college or university may be admitted for registration in certain courses or in one or more full academic semesters after the approval of the administration of the program and the college and the payment of the fees determined by the college. The student shall

be granted a certificate passing these courses (Non-Degree Study).

8- Method of teaching the program

- The language of the study is English.
- The use of audio and visual educational technology with the use of the information network to raise the efficiency of the educational process to include the development of creativity and skills of students.
- Availability of educational curricula on the program's website.
- Interesting to provide different methods of communication between the student and the teacher of the PVC
- Developing the abilities of the students to self-learning skills by assigning them to scientific projects for graduation, which requires the need to search the databases and training on some practical skills and presentation of the results of the project in a panel discussion in which the student is evaluated.

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