



## Biomedical sciences

The Academic Enrichment Program is considered to be one of the most important universal methods used to enrich the knowledge of talented students in STEM fields. In collaboration with the world's best places of expertise in talent and creativity, Mawhiba designed the courses to fit and challenge the students participating in the program. Mawhiba also aims to increase the depth and diversity of the scientific courses as students advance in education level and participate year after year.

Mawhiba also included interpersonal skill development as part of the program's main goals. To ensure students build their character and personality alongside their academic education, some of these include innovative thinking, cyber safety, Logical reasoning, and other important modern-day skills.

### Course Description

The Biomedical Sciences course is one of the courses that fall under the "Biomedical, Biomedical and Chemical Sciences" path. This course addresses questions that the students may have wondered once or twice during their daily lives, questions such as "why do my/others face turn red when it's hot? What's the appendix's function in the human body? Is it true that your nose gets taller when you lie? Students will find answers to these and other questions when they participate in this course.

This course also serves as a prelude to human biology and medical science, through which students explore the complex anatomical and physiological mechanism of the natural human body and how it functions, students will be applying basic biochemical concepts, and then research Homeostatic Imbalances.

Laboratory tests will include practicing Tissue Science and Engineering, anatomy, organ function, and biochemistry. In addition, students will learn to take scientific information with a grain of salt and will learn to critique articles in scientific journals and public media.

Students also learn how to ask scientific questions, develop hypotheses, and conduct experiments to explain biomedical phenomena. By the end of this course, students will learn about basic concepts in the medical field and develop their ability to work individually or in teams to achieve their goals.



## Acquired Skills

Students will be building and developing their academic and personal skills such as "teamwork, problem solving, reading and analyzing scientific literature, listening and understanding, as well as other important skills, that are taught using an educational kit provided by specialized tutors:

1. leadership and social impact.
2. innovation and creative thinking.
3. Pride and love for their nationality.

## What to Expect When Taking this Course

- An in-depth scientific material.
- Practical activities and scientific projects.
- Skills development.

## Where is the Program Going to be?

This program can be conducted either by physical, or online attendance depending on the circumstances.

## Soft Skills Kits in the Program

Students will be provided with two skills kits to develop their personal skills:

Phase	Skill Kit 1	Skill Kit 2
Intermediate	Emotional Intelligence	Overcoming Challenges