



Science Faculty

Our Mission

The mission of the ACS Faculty of Sciences is to provide our students with qualified and dedicated faculty members, well-developed academic programs, and high quality facilities to prepare competent professionals able to, independently, apply knowledge post-graduation. We aim to equip our students with modernized perspective of science in the different fields in the faculty aiming at developing an all-rounded student.

Our Aims

The Science curriculum is designed to meet the following the objectives:

- To help students learn and appreciate the Scientific Method as a form of communication within the scientific community;
- To enable them to demonstrate an understanding of scientific concepts, methods and techniques through helping them to develop experimental and investigative skills; and their ability to analyze, evaluate and synthesize scientific information;
- To help them appreciate the implications of using science and technology in everyday life, including the social, ethical and environmental aspects;
- To develop in them an appreciation of the limitations and possibilities associated with science and technology;
- To help them appreciate the relationships between different scientific disciplines.

Our Approach

Lessons are conducted in laboratories that have been specially designed to cater to concept teaching and practical work. Hands-on activities such as experimental work, ICT lessons, modeling and research projects are often combined with the teaching of concepts. Students also regularly carry out independent investigations, either individually or in groups to develop a deeper understanding of the concepts learnt in lessons. In addition, there are opportunities for pupils to acquire greater mastery of Science skills and knowledge through various competitions and Life science workshops.

Our Curriculum

Years 1 and 2

- Modular Science

Each discipline (Biology, Chemistry and Physics) will be taught by specialized teachers as individual modules. Each module lasts over 9 weeks in a term and will be rotated in the subsequent terms.

Years 3 and 4

- IGCSE Biology
- IGCSE Chemistry
- IGCSE Physics

Years 5 and 6

- IB Group 4 Biology (HL and SL)
- IB Group 4 Chemistry (HL and SL)
- IB Group 4 Physics (HL and SL)
- IB Group 4 Sports, Exercise and Health Science, SEHS (SL)