



# ARAB UNITY SCHOOL

CURRICULUM OVERVIEW

ICT

YEAR 11

2019 – 2020

A guide for Parents and Students

## SUBJECT: ICT

Year: 11

### Overview of the year:

IGCSE Information and Communication Technology encourages learners to develop lifelong skills, including:

- Have knowledge of ICT including new and emerging technologies
- Skills to analyse, design, implement, test and evaluate ICT systems.
- Should have the ability to recognise potential risks when using ICT, and use safe, secure and responsible practice.

Term	Topic	Activities / Assessments	Skills (SECRET)
<b>TERM ONE</b>	<b>COMMUNICATION</b> <ul style="list-style-type: none"><li>• Communication with other ICT users using email</li><li>• Effective use of the internet</li></ul> <b>FILE MANAGEMENT</b> <ul style="list-style-type: none"><li>• What is a generic file type?</li><li>• Manage files effectively</li><li>• Reduce file sizes for storage or transmission</li><li>•</li></ul> <b>ICT APPLICATIONS</b> <ul style="list-style-type: none"><li>• 6.2 Data handling applications</li><li>• 6.3 Measurement applications</li><li>• 6.4 Microprocessors in control applications</li><li>• 6.5 Modelling application</li><li>•</li></ul> <b>PRACTICAL</b> <ul style="list-style-type: none"><li>• Website Authoring</li><li>• Data manipulation</li></ul>	You need to do independent research using technology to create a website containing the heading “Winter Sports”, a brief introduction and unordered list of the following winter sports (skiing, tobogganing, and snowboarding. For each winter sport make a separate webpage with information, links, images.	The task will help the student to incorporate their creative thoughts and enquiries for designing a webpage.

**TERM TWO**

**ICT APPLICATIONS**

- 6.6 Manufacturing applications (Robotics)
- 6.10 Expert system.
- 6.11 Computers in medicine
- 6.14 Recognition systems
- 6.15 Monitoring and tracking systems
- 6.16 Satellite systems

**PRACTICAL**

- Data Analysis
- Presentation Authoring
- Document Production

Students will be assessed on their ability to describe Robotics. They will identify a range of applications which use expert systems, describe how number plate recognition systems work. They will describe how a workforce or member of the public can be monitored or logged.

The task demands the scenario of enquiring more on the topic to make them reflective learners.