



Taman Rama School – Bali Cambridge International Fellowship Centre

IGCSE

Introduction

Towards the end of Year 8, students have to make decisions regarding which subjects they would like to study at I.G.C.S.E. (years 9 and 10)

I.G.C.S.E. stands for International General Certificate of Secondary Education. It is the qualification for international students at the age of 16. It is the direct stepping stone to pre-university courses such as the AS/A Level. The choices that a student makes are therefore very important and we at The Cambridge International Fellowship Centre believe in maximizing a student's range of choices.

As our students are approaching this turning point in their lives, it remains very important for them to do their very best to achieve the highest possible standard in the widest range of subjects available.

This is a very exciting and challenging time in a student's school career. It is essential to prepare carefully, choose wisely and then show full commitment to the subjects chosen. Experience shows that student's get out only what they are prepared to put in.

Summary of IGCSE curriculum offered:

English Language (First and Second), English Literature, Accounting, Art and Design, Biology, Business Studies, Chemistry, Environmental Management, French, Geography, ICT, Indonesian, Mandarin and Physics.

*Note: subjects can change dependent on the number of students, this is at the discretion of the school management.

Compulsory Subjects

English Language
English Literature
Mathematics
Environmental Management
Physical Education

Option Subjects

Option 1	Biology	Accounting	
Option 2	Chemistry	Business Studies	
Option 3	Physics	Geography	
Option 4	Art and Design	ICT	
Option 5	French	Mandarin	Indonesian

Only one subject can and must be chosen from each of the following options. These groups have been arranged to provide every student the opportunity to receive a good balanced education.

The process of choosing a suitable course for each individual is one of negotiation between student, parents, subject teachers and form teachers. It is important that students are stimulated into achieving the highest possible standards, yet are not over burdened with a work load or academic level which is inappropriate for them.

For each option there must be a minimum number of students for the subject to run. Some courses may not run depending on the number choosing the course. This is dependent on the discretion of the Director.

Description of the Compulsory Subjects

English Language

English is a compulsory subject at IGCSE, and both English First Language and English as a Second Language examination are offered depending on the student's ability. The main aims and objectives of each course is to build on students' prior knowledge gained in the Lower Secondary Programme, and to further develop the depth and breadth of their understanding. The course prepares them for higher education, creating critical thinkers and independent learners.

In the English course the aims and objectives are:

- To further develop pupils' knowledge and understanding of language, and the various ways in which a writer uses language to create different effects on the reader.
- To develop the ability to read, understand and respond to a range of texts.
- To develop the ability to construct and convey meaning in written language, matching style to audience and purpose.

Students will cover the following main areas:

READING

Understand and collate explicit meanings

Understand, explain and collate implicit meanings and attitudes

Select, analyse and evaluate what is relevant to specific purposes

Understand how writers achieve effects

WRITING

Articulate experience and express what is thought, felt and imagined

Order and present facts, ideas and opinions

Understand and use a range of appropriate vocabulary

Use language and register appropriate to audience and context

Make accurate and effective use of paragraphs, grammatical structures, sentences, punctuation and spelling

SPEAKING AND LISTENING

Understand, order and present facts, ideas and opinions

Articulate experience and express what is thought, felt and imagined

Communicate clearly and fluently

Use language and register appropriate to audience and context

Listen to and respond appropriately to the contributions of others

English Literature

The English Literature course encourages and develops students' ability to:

- enjoy the experience of reading literature
- understand and respond to literary texts in different forms and from different periods and cultures
- communicate an informed personal response appropriately and effectively
- appreciate different ways in which writers achieve their effects
- experience literature's contribution to aesthetic, imaginative and intellectual growth
- explore the contribution of literature to an understanding of areas of human concern

In literature the aims and objectives of the course are:

To form links between English and literature

To develop the ability to read, understand and respond to a wide variety of types of literary texts

To further develop their skills necessary for literacy study

To foster and develop an awareness of the social and historical context, and its influence on writers / literature

To enable pupils to explore relationships and comparisons between texts, selecting and evaluating materials

To enable pupils to explore how language, structure and forms contribute to the meaning of texts, considering different approaches to texts and alternative interpretations

Mathematics

In Years 9 & 10, all students will continue to study mathematics to IGCSE level. We revisit those topics covered in Year 8 in order to add depth to the students' knowledge of the subject. We also add breadth through the introduction of new topics, such as vectors and matrices. The International General Certificate of Secondary Education (I.G.C.S.E) is designed as a two-year course for examination at age 16-plus and broadly covers the following topic areas:

- Number, set notation and language
- Squares, square roots and cubes
- Directed numbers
- Vulgar and decimal fractions, percentages,
- Ordering
- Standard form
- The four rules
- Estimation
- Limits of accuracy
- Ratio, proportion, rate
- Percentages
- Use of an electronic calculator
- Measures
- Time
- Money
- Personal and Household finance
- Graphs in practical situations
- Graphs of functions
- Straight line graphs
- Algebraic representation and formulae
- Algebraic manipulation
- Functions
- Indices
- Solutions of equations and inequalities
- Linear programming
- Geometrical terms and relationships
- Geometrical constructions

- Symmetry
- Angle properties
- Locus
- Mensuration
- Trigonometry
- Statistics
- Probability
- Vectors in two dimensions
- Matrices
- Transformations

There are two levels of Mathematics examination at IGCSE; the core which allows students to achieve grades C to G and the extended examination for those students capable of achieving grades A* to E.

These examinations provide a sound basis for students who wish to continue to AS/A Level. The courses are linear and examinations are usually held at the end of a two year course. There are two exam papers and the length of exams is between 1 and 2 ½ hours.

Environmental Management

IGCSE Environmental Management is concerned with education for sustainable development in a world where the security of resources and life-sustaining systems is endangered by human impact. The syllabus draws upon disciplines such as biology, earth science, geography, economics and anthropology. The syllabus starts with the interdependence of the Earth's natural systems and how people use natural resources. It moves on to examine the impact of development on the environment. Such issues as environmental pollution and resource depletion are examined, but the view of them is forward looking, to see how we may change the nature of development towards future sustainability.

Physical Education

PE develops pupils' competence and confidence to take part in a range of physical activities that become a central part of their lives, both in and out of school.

A high-quality PE curriculum enables all pupils to enjoy and succeed in many kinds of physical activity. They develop a wide range of skills and the ability to use tactics, strategies and compositional ideas to perform successfully. When they are performing, they think about what they are doing, analyse the situation and make decisions. They also reflect on their own and others' performances and find ways to improve them. As a result, they develop the confidence to take part in different physical activities and learn about the value of healthy, active lifestyles. Discovering what they like to do, what their aptitudes are at school, and how and where to get involved in physical activity helps them make informed choices about lifelong physical activity.

PE helps pupils develop personally and socially. They work as individuals, in groups and in teams, developing concepts of fairness and of personal and social responsibility. They take on different roles and responsibilities, including leadership, coaching and officiating. Through the range of experiences that PE offers, they learn how to be effective in competitive, creative and challenging situations.

Description of the Option Subjects

Biology

IGCSE Biology places considerable emphasis on understanding and use of scientific ideas and principles in a variety of situations, including those which are well-known to the learner and those which are new to them. This approach will focus skills on student's development of transferable life-long skills relevant to the increasingly technological environment in which people find.

The aims of the course are to:

1. provide, through well designed studies of experimental and practical science, a worthwhile educational experience for all students
 - 1.1 become confident citizens in a technological world, to take or develop an informed interest in matters of scientific import;
 - 1.2 recognise the usefulness, and limitations, of scientific method and to appreciate its applicability in other disciplines and in everyday life;
 - 1.3 be suitably prepared for studies beyond the IGCSE level in pure sciences, in applied sciences or in science-dependent vocational courses.
2. develop abilities and skills that
 - 2.1 are relevant to the study and practice of Biology;
 - 2.2 are useful in everyday life;
 - 2.3 encourage efficient and safe practice;
 - 2.4 encourage effective communication.
3. stimulate interest in, and care for, the environment.
4. promote an awareness that
 - 4.1 scientific theories and methods have developed, and continue to do so, as a result of the co-operative activities of groups and individuals;
 - 4.2 the study and practice of science is subject to social, economic, technological, ethical and cultural influences and limitations;
 - 4.3 the applications of science may be both beneficial and detrimental to the individual, the community and the environment;
 - 4.4 science transcends national boundaries and that the language of science, correctly and rigorously applied, is universal.

Accounting

IGCSE Accounting is a two year course starting in Grade 9 and concluding in the final semester of Grade 10 with Examinations.

The course aims to enable students to

1. develop an understanding of the principles and purposes of accounting in providing information systems for monitoring and decision-making appropriate to the needs of individuals, business and non-trading organisations, and society as a whole;
2. develop an understanding of accounting principles, policies, procedures and terminology;
3. develop knowledge and understanding of the aims and activities of business and non-trading organisations, their accounting implications and accounting techniques and procedures appropriate to them;
4. develop skills of numeracy, literacy, communication, enquiry, presentation and interpretation;
5. encourage attitudes of accuracy, orderliness and logical thought.

Chemistry

As well as a subject focus, the IGCSE Chemistry syllabus enables students to better understand the technological world in which they live, and take an informed interest in science and scientific developments. Students learn about the basic principles of Chemistry through a mix of theoretical and practical studies. Students also develop an understanding of the scientific skills essential for further study at A Level, skills which are useful in everyday life. As they progress, students learn how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment.

Business Studies

The IGCSE Business Studies syllabus develops students' understanding of business activity in the public and private sectors, and the importance of innovation and change. Students learn how the major types of business organisation are established, financed and run, and how their activities are regulated. Factors influencing business decision-making are also considered, as are the essential values of cooperation and interdependence. Through their studies, students not only learn about business concepts and techniques but also enhance related skills such as numeracy and enquiry. The syllabus provides both a foundation for further study at A Level, and an ideal preparation for the world of work.

Physics

As well as a subject focus, the IGCSE Physics syllabus enables students to better understand the technological world in which they live, and take an informed interest in science and scientific developments. Students learn about the basic principles of Physics through a mix of theoretical and practical studies. Students also develop an understanding of the scientific skills essential for further study at A Level, skills which are useful in everyday life. As they progress, students learn how science is studied and practised, and become aware that the results of scientific research can have both good and bad effects on individuals, communities and the environment.

Geography

The study of geography stimulates an interest in and a sense of wonder about places. It helps young people make sense of a complex and dynamically changing world. It explains where places are, how places and landscapes are formed, how people and their environment interact, and how a diverse range of economies, societies and environments are interconnected. It builds on pupils' own experiences to investigate places at all scales, from the personal to the global.

Geographical enquiry encourages questioning, investigation and critical thinking about issues affecting the world and people's lives, now and in the future. Fieldwork is an essential element of this. Pupils learn to think spatially and use maps, visual images and new technologies, including geographical information systems (GIS), to obtain, present and analyse information. Geography inspires pupils to become global citizens by exploring their own place in the world, their values and their responsibilities to other people, to the environment and to the sustainability of the planet.

Art and Design

In art, craft and design, pupils explore visual, tactile and other sensory experiences to communicate ideas and meanings. They work with traditional and new media, developing confidence, competence, imagination and creativity. They learn to appreciate and value images and artefacts across times and cultures, and to understand the contexts in which they were made. In art, craft and design, pupils reflect critically on their own and other people's work, judging quality, value and meaning. They learn to think and act as artists, craftspeople and designers, working creatively and intelligently. They develop an appreciation of art, craft and design, and its role in the creative and cultural industries that enrich their lives

What is IGCSE art about?

IGCSE Art is about creativity and the development of visual literacy. The skills that you will develop doing IGCSE art will be varied. Students will learn to view and interpret the world around them. They will develop and explore ideas through their art work and consider the meaning of their work and work of other artists in history and society. Finally they will respond through the painting and other media.

How is the course structured?

This is a two year course, starting in Year 9. Students are required to produce coursework projects which will be assessed each month. At the end of Year 10, students will sit two controlled tests. They will be given the themes from these tests one month in advance and be asked to produce preparation studies. Preparation studies should be brought into the examinations and all work is submitted to Cambridge Assessment.

Is IGCSE Art for me?

Drawing skills underpin all art work, so with this in mind our students work from direct observation as much as possible in order to fully research their chosen subject matter. Students at the Cambridge International Fellowship Centre are strongly encouraged to look at the work of artists both locally and internationally. An investigative approach to the work is used, where students experiment with a wide range of material, techniques and skills, in order to develop ideas. The emphasis in IGCSE Art is on the process of developing both ideas and work.

What careers will studying IGCSE Art lead to?

Students who study art at IGCSE can continue on to A-Levels. Students go on to specialize at degree level in preparation for one of thousands of possible careers in Art and Design industry such as Graphic design, Illustration, Film and TV and architecture to mention a few.

Information and Communication Technology

The Information Communication Technology syllabus combines theoretical and practical studies focusing on the ability to use common software applications, including word processors, spreadsheets, databases, interactive presentation software, e-mail, web browsers and website design. Students will develop a greater awareness of how applications are used in the workplace, and consider the impact of new technologies on methods of working and on social, economic, ethical and moral issues. The skills learnt will be useful to them in their work across the curriculum, and will prepare them for future employment. Assessment of the practical tests is hardware and software independent. Any hardware platform, operating system, and applications packages can be used, providing that students have the opportunity to demonstrate the full range of skills in the syllabus.

French

This is an examination designed for students learning French as a foreign language. The aim is to develop an ability to use the language effectively for purposes of practical communication. The course is based on the linked language skills of listening, reading, speaking and writing, and these are built on as students progress through their studies. The syllabus also aims to offer insights into the culture and civilisation of countries where the language is spoken, thus encouraging positive attitudes towards language learning and towards speakers of foreign languages.

Mandarin

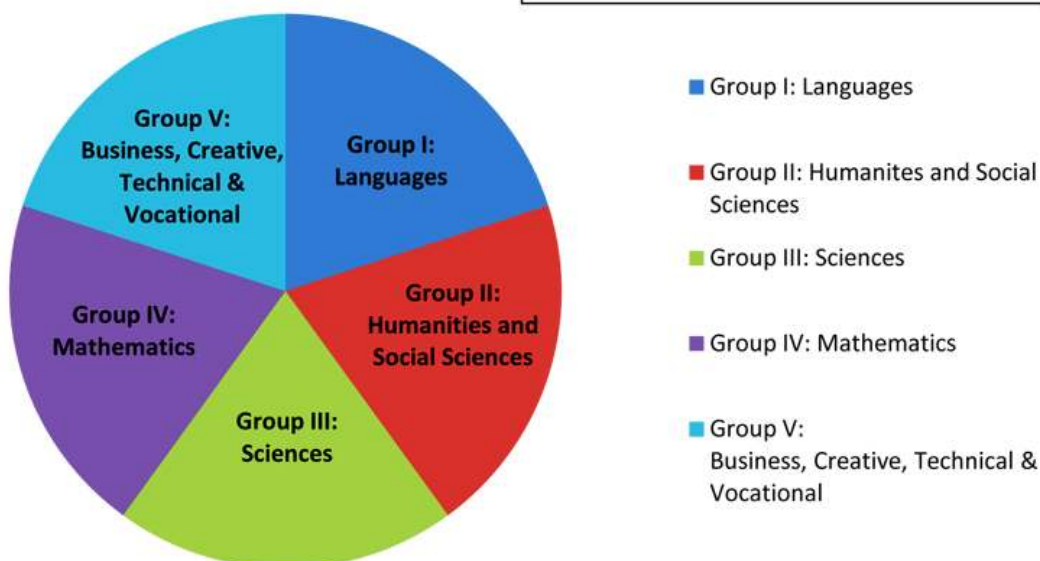
This is an examination designed for students learning Mandarin as a foreign language. The aim is to develop an ability to use the language effectively for purposes of practical communication. The course is based on the linked language skills of listening, reading, speaking and writing, and these are built on as students progress through their studies. The syllabus also aims to offer insights into the culture and civilisation of countries where the language is spoken, thus encouraging positive attitudes towards language learning and towards speakers of foreign languages.

Indonesian

This is an examination designed for students learning Indonesian as a foreign language. The aim is to develop an ability to use the language effectively for purposes of practical communication. The course is based on the linked language skills of listening, reading, speaking and writing, and these are built on as students progress through their studies. The syllabus also aims to offer insights into the culture and civilisation of countries where the language is spoken, thus encouraging positive attitudes towards language learning and towards speakers of foreign languages.

ICE -International Certificate of Education

To get the ICE group certificate in 7 subjects → Choose minimum 2 languages and minimum 1 subject from the other four groups.



Group I	Languages
	First Language English English as a Second Language First Language French French Language Mandarin Indonesian
Group II	Humanities and Social Sciences
	Geography English Literature Environmental Management*
Group III	Sciences
	Biology Chemistry Physics Environmental Management*
Group IV	Mathematics
	Mathematics without coursework
Group V	Business, Creative, Technical & Vocational
	Accounting Art & Design Business Studies Information Communication Technology

*IGCSE Environmental Management can count as either a Group II or Group III ICE Subject

The ICE International Certificate of Education

Students automatically qualify for the ICE award in Year 10 when they register for their IGCSE examinations - if they are taking 7 subjects (two languages and subjects from each of the different subject groups)

Text books

Text books can be purchased from the school bookstore after students have decided on their Option Subjects.

Study and Homework

All IGCSE students must do regular daily homework. Regardless of whether homework has been set there is always homework to be done. This could be completing unfinished class work, reviewing a completed topic and making tidy study notes, reading and making notes for Literature, researching a future topic or working on Art projects.

Students must write down all set homework in a Homework Diary.

Through-out Year 9 and 10 students will be expected to make their own study notes, diagrams and summaries of topics covered in the classroom. It is important that students have exercise books (notebooks) for each subject which are clearly labeled with Name, Class and Subject. In addition plastic sleeves are needed to keep handouts given by the teacher. The school does not permit the use of ring-binder folders.

Examination and Assessment

School Report Card grades are based on monthly tests and End of Semester School Examinations.

The academic year has two semesters: Semester 1 from July – December and Semester 2 from January – June.