

Class 9 & 10

Course Choices 2021-2022



DYATMIKA
EDUCATION FOR A BETTER WORLD



Introduction

This booklet contains all the information you need to make the most of your opportunity to choose the programme you will study in Class 9 and 10 at Dyatmika.

The General Information section gives you an overview of the IGCSE curriculum and the selection process for 2021/22. It includes advice to help you choose subjects sensibly.

The main part of the booklet introduces you to the subjects which are available for study at IGCSE level. We try to cater for all students, but please be aware that some subjects may become full quickly, therefore not every student will always get their first choices. We will allocate on a first-come first-served basis.

The last page contains a list of people you may want to talk to if you have any doubts about the process of choosing your options. If you are not sure about a particular subject then you must ask for the advice of the specialists who teach it.

Remember to base your choices on what is right for you, not what your friends have selected. Discuss your options carefully with your parents and any of the teaching staff.

This is your opportunity to start shaping your future and the first step is to read this booklet carefully.



Sekolah Dyatmika

2021-2022

COURSE CHOICES - CLASS 9 & 10

**GENERAL
INFORMATION**



Transition to Class 9 and 10 (IGCSE)

Cambridge International General Certificate in Secondary Education (IGCSE) courses are the first major examinations for you. These are the foundation for further study at Advanced Level in Class 11 and 12, but also are a requirement for entrance to Universities and Higher Education Institutions around the world. The vast majority require at least 5 IGCSE grades at C or above, including English First Language and Maths, but more and more universities are now looking at the full range of IGCSE grades when considering applications due to the high level of worldwide competition for university places.

In addition, at Dyatmika we require students to achieve certain grades to access Advanced level in subjects (please see the Class 11 and 12 course choices booklet).

It is important the correct choices are made at IGCSE to ensure your career path can be followed and to make sure you are doing subjects you will do well at.

If over subscribed, subjects will be given on a first come first served basis along with a discussion with the subject coordinators.

Compulsory Subjects

- English First Language
- English Literature
- Bahasa Indonesia
- Mathematics
- Science (Double Award)



Subject Choices

A. Choose one of:

Geography
History

B. Choose one of:

Business Studies
Economics
Music

C. Choose one of:

Art
ICT
Business Studies
PE*

*IGCSE PE. In addition to the above subjects, all students will also have PE and Health as part of their timetable. IGCSE PE is a separate subject in addition to this.

Please note: The choice blocks above may be subject to change depending on demand and staffing - we have based those above on feedback from students in Class 8.



National Curriculum Requirements, Class 9-12

Dyatmika School provides the opportunity for Indonesian citizens to follow the Cambridge programme, but also take national exam in classes 9 and 12. Please note that this is a Government requirement for all Indonesian citizens, including those with dual nationality. In Class 9, classes are provided for Maths and Science within the normal timetabled day to prepare for the UN exams.

In Classes 10-12, our Double Award programme ensures students have access to obtaining both the Cambridge AS and A Level certificates, and the National certificate. There is not a significant amount of extra study on top of the Cambridge programme – a general outline is displayed below:

CLASS 10			
IPA (Science) (normal IGCSE timetable)		IPS (Social) (normal IGCSE timetable)	
Additional subjects:		Additional subjects:	
Agama (Religion)	1 period / week (every Friday, Period 2)	Agama (Religion)	1 period / week (every Friday, Period 2)
Citizenship	1 period / week (every Monday, Period 8)	Citizenship	1 period / week (every Monday, Period 8)
		Sociology	1 period / week (every Tuesday, Period 8)



COURSE CHOICES - CLASS 9 & 10

CLASS 11 & 12			
IPA (Science) (normal AS Level timetable)		IPS (Social) (normal AS Level timetable)	
Additional subjects:		Additional subjects:	
Agama (Religion)	1 period / week	Agama (Religion)	1 period / week
Citizenship	1 period / week	Citizenship	1 period / week
Maths (if NOT taking AS Level Maths)	1 period / week	Maths (if NOT taking AS Level Maths)	1 period / week
Bahasa Indonesia	1 period / week	Bahasa Indonesia	1 period / week
1 subject choice (Bio or Physics or Chem) If NOT taking AS Level of those subjects	1 period / week	1 subject choice (Econ, Sosio, Geo) If NOT taking AS Level of those subjects	1 period / week
The delivery of all additional subjects will be adjusted to student's free period , except Religion			

For any further information please contact Pak Ketut, National Head of High School (kmahardika@dyatmika.org).



Extracurricular programmes

In addition to their academic studies, all students are expected to take part in extra curricular activities. These not only broaden students' skill sets, but make them more desirable when applying to University. Please refer to our extra curricular programmes booklet.

There are various extra curricular programmes that are linked to academic study which also provide opportunity for students to meet with students from other schools in Bali, and further afield in Asia. These include:

- Model United Nations
- Global Issues Network
- The Duke of Edinburgh's International Award
- Community service (e.g. literacy in local SDs)
- Sports programmes



Course Choice Timeline

December

Course choice booklets emailed home, explaining the content and career paths supported by each subject available at IGCSE, AS and A Level. Our university application guidelines booklet is also included so parents and students can discuss and research together a possible path (university paths are often very heavily guided by finances)



February

Course choice evening is held, where all students and parents meet with the teachers of all subjects to discuss their chances of success in each subject, and what each subject can offer. In addition, times are available to book to meet with Jon C or the counselors to discuss choices and university.



March

Deadline for choices. Following this, all staff meet to discuss each student's choices to ascertain whether the choices give them the best chances of success, or whether there may be suggestions to take different courses.



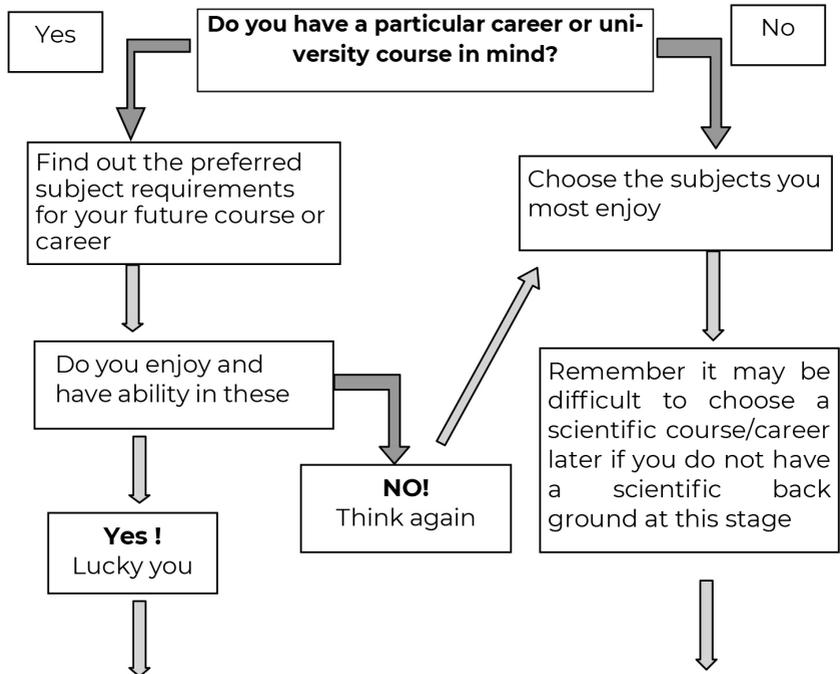
March

With this information, Home Room leaders will meet individually to confirm the choices with the students, and where necessary invite parents too.

Throughout the process, parents are welcome to contact Pak Philis, Ibu Sarah, or Pak JonC and ask to meet at anytime.

Expert university counselor visit; available to make appointments and to give any further information needed - although generally this is only needed for applications to the US as it is a complicated process and there are so many universities.

How to Choose Subjects



Final Check

1. Have my choices limited my opportunities, if I later change my mind?
Check with Pak Jon or Pak Philis
2. Have I talked over my ideas with my parents and teachers?
You should, another person's point of view is always useful.
3. Am I making choices based on my friends pressure from parents or because I like or dislike a particular teacher?

It is important to be aware of these issues, friends and teachers may change and parents will have to let you decide for yourself at some point. Also your relationship with staff will also change as you mature and start examination courses.



Sekolah Dyatmika

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COURSE CHOICES - CLASS 9 & 10

IGCSE English First Language (0500)

**“Language is the dress of
thought.”**

– Samuel Johnson



Course Brief

The IGCSE English First Language course builds upon your skills and knowledge from grades seven and eight. It is a dynamic and varied experience; you will read and write texts from all genres that cover a wide range of topics.

The aims are to enable students to:

- read a wide range of texts, fluently and with good understanding, enjoying and appreciating a variety of language
- read critically, and use knowledge gained from wide reading to inform and improve their own writing
- write accurately and effectively, using Standard English appropriately
- work with information and with ideas in language by developing skills of evaluation, analysis, use and inference
- listen to, understand, and use spoken language effectively
- acquire and apply a wide vocabulary, alongside a knowledge and understanding of grammatical terminology and linguistic conventions.

Course and assessment structure:

Paper 1 Reading

2 hours 80 marks 50%

Students answer three questions on three unseen texts:

Question 1 – Comprehension & Summary (30 marks)

Question 2 – Short-answer questions and language task (25 marks)

Question 3 – Extended Response to reading (25 marks)

This component is set and marked by Cambridge.

Paper 2 Directed Writing and Composition

2 hours 80 marks 50%

Students answer one question on one or two texts totalling 650–750 words, and complete a composition task from a choice of four titles. (two narrative and two descriptive.)

This component is set and marked by Cambridge.



Course and assessment structure:

AO1: Reading

Students will be assessed on their ability to:

- demonstrate understanding of explicit meanings
- demonstrate understanding of implicit meanings and attitudes
- analyse, evaluate and develop facts, ideas and opinions
- demonstrate understanding of how writers achieve effects
- select information for specific purposes.

AO2: Writing

Students will be assessed on their ability to:

- articulate experience and express what is thought, felt and imagined
- sequence facts, ideas and opinions
- use a range of appropriate vocabulary
- use register appropriate to audience and context
- make accurate use of spelling, punctuation and grammar.

Careers and further study:

English First Language A* - C is a requirement for most A level subjects and careers.



IGCSE English Literature (0486)

“That is part of the beauty of all literature. You discover that your longings are universal longings, that you’re not lonely and isolated from anyone.

You belong.”

— F. Scott Fitzgerald



Course Brief

IGCSE English Literature is taught alongside English First Language. You will study a range of new texts including, novels, poetry, short stories and drama. The study of literature at IGCSE is a lively and invigorating experience, involving discussion, debate and independent thinking. The aims of the course are to develop students who can:

- 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 society's understanding of areas of human concern.

Course and assessment structure:

Component 1: Poetry and Prose (Closed Text)

1 hour 30 minutes

Students answer two questions on two texts: one poetry and one prose. There is a choice of two questions (one passage-based and one essay) on each text.

50 marks

50%



Course and assessment structure:

Component 3: Drama (Open Text)

45 minutes

Students answer one question on one text. There is a choice of two questions (one passage-based and one essay) on each text.

25 marks

25%

Component 4: Response to unseen poetry or prose

1 hour 15 minutes

Students answer one question.

There is a choice of two questions requiring critical commentary (one based on literary prose and one based on a poem or extract of a poem).

25 marks

25%

Careers and further study:

IGCSE English Literature is regarded as a traditional academic subject. Students who succeed at IGCSE are well suited to the following A levels: English Language; English Literature; Social Sciences; Media and Communication Studies.



Sekolah Dyatmika

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COURSE CHOICES - CLASS 9 & 10

**IGCSE Bahasa
Indonesia
(First Language/0538)**



Course Brief

Cambridge IGCSE Bahasa Indonesia (0538) provides proof of knowledge and understanding of the subject at this level and is an ideal foundation for further study at Cambridge International AS and A Level, and beyond. Candidates may choose to study Cambridge IGCSE Bahasa Indonesia to improve their education or employment prospects. This qualification assesses candidates' ability to use Bahasa Indonesia as a medium of practical communication and is aimed at candidates for whom Bahasa Indonesia is a language of everyday use. The topics selected relate to the interests and needs of the candidates in using Bahasa Indonesia, e.g. education, the world of work, current affairs, health and welfare, travel, school affairs.

Syllabus content

Assessment Objective	
1. Reading	<p><i>All candidates should be able to:</i></p> <ul style="list-style-type: none">• demonstrate the ability to understand texts of a literary and non-literary nature• demonstrate the ability to extract relevant specific information from short texts considered likely to be within the experience of and reflecting the interests of young people from varied cultural backgrounds• scan for particular information, organize the relevant information and present it in a logical manner/given format• explain vocabulary chosen by a writer• demonstrate the ability to extract relevant information from a wider range of texts, including magazines and newspapers likely to be read by young people• demonstrate the ability to identify the important points or themes within an extended piece of writing• demonstrate the ability to explain how writers achieve effects



Assessment Objective	
<p>2. Writing</p>	<p><i>All candidates should be able to:</i></p> <ul style="list-style-type: none"> • demonstrate the ability to summarise information • identify, organize and present given material in a particular form • carry out longer writing tasks on a wider range of topics • express thoughts, feelings and opinions in order to interest, inform or convince the reader • show a sense of audience • demonstrate control of vocabulary, syntax and grammar • use a variety of sentence structures and vocabulary and use paragraphing appropriately • demonstrate accuracy in punctuation and spelling
<p>3. Speaking and Responding</p>	<p><i>All candidates should be able to:</i></p> <ul style="list-style-type: none"> • research, organize and present a topic of their choice • understand spoken questions about their topic and respond appropriately to further conversation • discuss wider related topics • use a variety of sentence structures and vocabulary • demonstrate control of vocabulary, syntax and grammar

Scheme of Assessment

Scheme of assessment For Cambridge IGCSE Bahasa Indonesia, candidates take three components: Paper 1 Reading and Understanding, Paper 2 Writing and Component 3 – Speaking and Responding.

Components	Weighting
<p>Paper 1 Reading and Understanding 1 hour 45 minutes Section 1: two exercises – reading Section 2: one exercise – note-making 45 marks Section 3: one exercise – comprehension and style Externally assessed.</p>	<p>45%</p>



COURSE CHOICES - CLASS 9 & 10

Components		Weighting
Paper 2 Reading and Writing Section 1: one exercise – summary writing Section 2: one exercise – continuous writing Externally assessed.	1 hour 30 minutes 40 marks	40%
Component 3 Speaking and Responding Individual topic discussion Internally marked, externally moderated.	9–11 minutes 30 marks	15%



Course Brief

Cambridge IGCSE Bahasa Indonesia (Foreign Language/0545) encourages learners to develop lifelong skills, including the ability to use a foreign language as a means of practical communication, insight into the culture and civilization of countries where the language is spoken, and a positive attitude towards language learning, towards the speakers of other languages, and towards other cultures and civilizations.

The syllabus content is organized around five broad Topic areas which provide contexts for the acquisition of vocabulary and the study of grammar and structures. Through the study of these Topic areas, candidates gain insight into target language countries and communities. The Topic areas are:

Topic List

	Topic areas	Examination topics
Area A	Everyday activities Home life and school Food, health and fitness	<ul style="list-style-type: none">• Home life and school• Food, health and fitness
Area B	Personal and social life Self, family and personal relationships Holidays and special occasions	<ul style="list-style-type: none">• Self, family, pets, personal relationships House and home• Leisure, entertainments, invitations Eating out• Festivals and special occasions• Holidays; getting around• Accommodation
Area C	The world around us Home town and local area Natural and made environment People, places and customs	<ul style="list-style-type: none">• Home town and geographical surroundings• Shopping• Public services• Natural environment• Weather• Finding the way• Meeting people• Places and customs• Travel and transport



COURSE CHOICES - CLASS 9 & 10

	Topic areas	Examination topics
Area D	<p>The world of work Continuing education Careers and employment</p> <p>Language and communication in the work place</p>	<ul style="list-style-type: none"> • Further education and training • Future career plans • Employment • Communication • Language at work
Area E	<p>The international world Tourism at home and abroad</p> <p>Life in other countries and communities</p> <p>World events and issues</p>	<ul style="list-style-type: none"> • Holiday travel and transport • Geographical surroundings • Weather • Places and customs • Food and drink • Meeting people • Issues according to available resources and individual interest

Scheme of assessment

Grades available: A*, A, B, C, D, E, F, G	Weighting of papers
<p>Paper 2 Reading 1 hour Candidates read a number of texts and answer questions testing comprehension. 45 marks Externally assessed</p>	approximately 33%
<p>Paper 3 Speaking *approximately 15 mins Candidates complete two role plays, a topic presentation/conversation and a general conversation. 100 marks Internally assessed/externally moderated</p>	approximately 33%
<p>Paper 4 Writing 1 hour Candidates respond in the target language to three tasks. 50 marks Externally assessed</p>	approximately 33%



Mathematics IGCSE (0580)

“Do not worry about your difficulties in Mathematics. I can assure you mine are still greater.”

- Albert Einstein



Course Brief

IGCSE Mathematics at Dyatmika is a compulsory IGCSE which can be studied at Core or Extended Level. At Core level the grades available are C - G, and at Extended level students can be awarded grades from A* to E. The tier that each student is entered for is determined by their performance and understanding demonstrated throughout their Mathematics lessons at Dyatmika in classes 6, 7 and 8. Successful IGCSE Mathematics candidates from either tier gain lifelong benefits, including:

- the development of their mathematical knowledge.
- confidence, by developing a feel for numbers, patterns and relationships.
- an ability to consider and solve problems and present and interpret results.
- skills in communication and reasoning using mathematical concepts.
- a solid foundation for further study.



Course Structure

Core	Extended (Includes all Core content plus...)
<p>NUMBER Identify & use types of number including rational, prime, square numbers, factors and primes, directed numbers. Understand the rules of indices. Calculate with fractions decimals and percentages. Venn Diagrams and set notation.</p> <p>ALGEBRA & GRAPHS Manipulate expressions & formulae. Solve linear, quadratic and simultaneous equations using algebraic & graphical methods. Interpret travel graphs and conversion graphs. Sequences.</p> <p>GEOMETRY Use and understand geometrical terms. Solve problems involving angles. Identify rotational and line symmetry. Calculate lengths in similar shapes. Calculate area perimeter and volume of various shapes. Convert between units. Describe and carry out translations, reflections, rotations & enlargements. Add & subtract vectors.</p> <p>COORDINATE GEOMETRY Use coordinates in two dimensions. Find the gradient of a straight line and use the form $y=mx+c$. Understand parallel gradients.</p> <p>TRIGONOMETRY Use bearings. Use Pythagoras and trigonometry in right angled triangles.</p> <p>PROBABILITY & STATISTICS Understand the probability scale, calculate probabilities of single and combined events. Use relative frequencies. Draw and read bar charts, pie charts, pictograms & scatter graphs. Describe correlation & draw lines of best fit. Calculate averages & range.</p>	<p>NUMBER Exponential growth & decay.</p> <p>ALGEBRA & GRAPHS Solve quadratic equations by completing the square or using the quadratic formula. Linear programming. Direct and inverse proportion. Estimate gradients by drawing tangents. Use function notation. Calculate and use derived functions. Discriminate between maxima and minima.</p> <p>GEOMETRY Understand the link between length, area & volume scale factors. Identify planes of symmetry. Circle theorems. Calculate the magnitude of a vector. Use position vectors. Classify congruent triangles.</p> <p>COORDINATE GEOMETRY Calculate gradients using coordinates, calculate lengths and midpoints of lines. Find perpendicular gradients.</p> <p>TRIGONOMETRY Use the sine and cosine rule for any triangle. Use the formula $\text{area} = \frac{1}{2} ab \sin C$ for any triangle. Use right-angled trig and Pythagoras in 3D. Sketch graphs of simple trig functions. Solve trig equations.</p> <p>PROBABILITY & STATISTICS Estimate mean for grouped data. Construct cumulative frequency diagrams and use them to find medians & quartiles. Construct histograms. Calculate conditional probabilities.</p>



The Assessment Structure

	Structure	Weighting of papers
Core	Paper 1 1 hour exam	35%
	Paper 3 2 hour exam	65%
Extended	Paper 2 1.5 hour exam	35%
	Paper 4 2.5 hour exam	65%

Careers

Mathematics is everywhere! Students wishing to pursue the AS and A Level Mathematics must achieve at least a B grade at IGCSE. Maths is useful for every career and university course, but particularly for Mathematics, Science, Engineering and Economics.



Co-ordinated Sciences (Double Award) IGCSE (0654)

**“Nothing in life is to be feared
it is only to be understood. Now
is the time to understand more
and fear less”
- Marie Curie**



Course Brief

A level of understanding of science is critical to an understanding of life and its associated activities. An informed citizen of the world makes daily use, consciously or not, of a knowledge of science. Try to imagine an activity that does not directly or indirectly depend on science. Cooking? Fishing? Using a computer? Brushing your teeth? Sunbathing? Reading a book? Watching a movie? If you can readily see how science, or some product or device dependent on science, influences each of these activities, then you may already have an appreciation of the importance of this subject.

Students taking this course will learn to understand the importance of science and the valuable contribution the subject makes in improving the world in which we live. Not only will this course prepare students with the foundational knowledge to pursue Biology, Chemistry or Physics to Advanced Level if they wish, it will also increase their scientific literacy. Dyatmika's motto, "Education for a Better World" emphasizes how valuable and important a tool being scientifically literate is in today's world. With an increased capacity to apply, analyze, synthesise and evaluate information, our students can be actively engaged in the decisions they make that greatly impact their lives, their families as well as their communities now and for future generations.



Course Structure:

Biology Topics	Chemistry Topics	Physics Topics
<ul style="list-style-type: none"> • Characteristics of Living Organisms • Cells • Biological Molecules • Enzymes • Animal and Plant nutrition • Transport in plants and humans • Gas Exchange and Respiration • Coordination and response • Reproduction • Inheritance • Organisms and their Environment • Human influences on ecosystems 	<ul style="list-style-type: none"> • The particulate nature of matter • Experimental techniques • Atoms, elements & compounds • Stoichiometry • Electricity and chemistry • Energy changes • Chemical reactions • Acids, Bases and salts • The Periodic Table • Metals • Air and Water • Sulfur and Carbonates • Organic Chemistry 	<ul style="list-style-type: none"> • Motion • Work, energy and power • Thermal physics • Properties of waves, including light and sound • Electricity and magnetism • Electric circuits • Electromagnetic effects • Atomic physics

Assessment Structure

Paper	Structure	Time	Weighting
1 (core) or 2 (extended)	Multiple Choice Exam	45 minutes	30%
3 (core) or 4 (extended)	Short Answer and Structured question Exam	2 hours	50%
5 or 6	Alternative to practical	1 hour 30 minutes	20%



Careers

Studying Cambridge Double Award IGCSE Science provides students opportunities to strengthen valuable skills such as critical thinking, problem solving, analyzing, evaluating etc. that are necessary for success in a wide number of non-science related careers.

For students wishing to pursue careers in the sciences a strong foundational knowledge of all three sciences is necessary. Students wanting to study Advanced Level Physics, Biology or Chemistry courses at Dyatmika must achieve a grade of B or higher on the Cambridge Double Award IGCSE to be eligible.



Sekolah Dyatmika

2021-2022

COURSE CHOICES - CLASS 9 & 10

**IGCSE Bahasa
Indonesia
(Foreign Language/0545)**



Sekolah Dyatmika

2021-2022

COURSE CHOICES - CLASS 9 & 10

Geography IGCSE

**“Geography is the subject which
holds the key to our future”
- Michael Palin**



Course Brief

In our ever-changing world, Geography is a relevant and exciting subject that can stimulate interest in the world around us and develop our understanding of current affairs. It allows students to gain an understanding of events that take place in our everyday lives and draw connections between different human and physical processes that shape and characterize our world.

Geography IGCSE covers both Physical and Human Geography. In Physical Geography the natural world of river systems, tectonic plates, weather, hazards and coastal processes are explored. Students look at how the world works, as well as how these natural systems can pose a threat to human settlements and livelihoods in different parts of the world. Students examine how humans can influence these natural systems and consider the advantages and disadvantages of this intervention.

In Human Geography, students look at population and settlement and consider patterns of world population growth and the threat that this may pose in terms of resource provision. Students examine the success of the methods adopted to cope with the threat to human well-being where overpopulation is experienced. Students consider the way the world has developed and the impacts of this transition on different countries and populations. They look at resource scarcity in detail in terms of energy and water supply and how our strive for economic progress has impacted on the planet and in turn, different groups of people.

Students will also carry out an independent piece of coursework which will account for 27.5% of their final grade. They will plan their own enquiry, develop appropriate questions and evaluate which methods will be best to carry out the research. They will then go and collect their data and write up their findings as a piece of assessed coursework. Fieldtrips are a key part of geography as they help bring to life the processes and impacts studied in class and embed a deeper understanding. Where possible, there will be further opportunities for fieldwork so that students can see real geography in action and help develop their understanding of some of the topics required for their examination. Fieldwork also helps students develop key geographical skills which are examined as part of the IGCSE in Paper 2.

Geography is a diverse and exciting subject that is relevant to our everyday lives. It is multi-disciplinary and supports learning in almost all other subjects, making it a great complementary choice to your other options. It will help students refine their literacy skills, graphical analysis and ICT skills as well as develop an understanding of our ever-changing world.



Assessment Structure

Paper	Content	Examination duration	Weighting
Paper 1: Geographical Themes	Theme 1: Population and Settlement Theme 2: The Natural Environment Theme 3: Economic Development	1 hour and 45 minutes	45%
Paper 2: Geographical Skills	Skills: Interpretation and analysis of geographical information. Decision making. Application of graphical techniques. Application of map-reading skills.	1 hour and 30 minutes	27.5%
Paper 3: Coursework	Teacher will set a centre-based assignment of up to 2000 words.	N/A	27.5%

Careers

Geography is a relevant and diverse academic subject that provides the opportunity for students to develop key analytical and decision-making skills. These are highly employable attributes to have and as a result, Geography graduates are considered amongst the most employable for a wide range of careers. If students have a passion for Geography and wish to study Geography-related degrees at University there is a wide range to choose from. Specialisms can include; Geography, Geology, Development Studies, Global Issues, International Studies, Economics, Tourism and Leisure, Environmental Management, Town Planning, Chartered Surveying and Hazard Mitigation.

The Royal Geographical Society states that 'There is no such thing as a geography job, but there are a plethora of jobs that geographer's do' and it is the foundation of key skills and analytical understanding that Geography students are equipped with that provides a firm base for a successful career and life-long learning.



History IGCSE (0470)

**“The more you know about the past, the better prepared you are for the future”
- Theodore Roosevelt**



Course Brief

The History IGCSE is a challenging and academically demanding course that is richly rewarding. The History IGCSE is the right course choice for students who enjoy History, but who also want to stretch themselves. The IGCSE in History really sets students up for the skills that are required at A-Level and beyond, including developed source analysis skills, essay writing and debating skills, to name but a few. The course itself is based around a Modern World Study of the 20th Century, with a detailed and fascinating look at the events that have shaped the world we live in today. Do you want to know why the First World War began? Why dictators such as Adolf Hitler and Joseph Stalin were able to rise to power? Where does the United Nations come from? What is the Cold War? How close did the world come to nuclear Armageddon? These are just some of the questions that will be answered if you choose IGCSE History!

Course Structure

Core Content	Depth Study
<p>Students will study seven 'core content' topics in Class 9, followed by a Depth Study in Class 10. The 'Core Content' provides an overview of several important events from the 20th Century, that have shaped the world we live in today.</p> <p>CORE CONTENT:</p> <ul style="list-style-type: none"> • Were the peace treaties of 1919-23 fair? • To what extent was the League of Nations a success? • Why had international peace collapsed by 1939? • Who was to blame for the Cold War? • How effectively did the USA contain the spread of Communism? • How secure was the USSR's control over Eastern Europe? • How significant were events in the Gulf, 1970-2000? 	<p>In Class 10, most of the focus is on the Depth Study – a detailed focus on one country and its history, its role in world affairs, and what life was like for the citizens of that country during a specified time period. At Dyatmika, the depth study we have chosen is GERMANY: 1919-1945. This is a fascinating insight into the fall of a great power after the First World War, to the emergence of one of the most brutal and destructive regimes in world history – the Third Reich of Nazi Germany.</p> <p>DEPTH STUDY CONTENT</p> <p>Germany 1919-1923 – Weimar in Crisis</p> <p>Germany 1923-29 – The 'Golden Era' of Weimar</p> <p>Germany 1929-1933 – The Rise of Hitler</p> <p>Germany 1933-1939 – Life in Nazi Germany</p> <p>Germany 1939-1945 – Wartime Germany</p>



Assessment Structure

	Structure	Time	Weighting
Paper 1	EXAM (Core content and Depth Study–factual questions and short essays)	2 hours	40%
Paper 2	EXAM (Source Paper – specified topic For 2018 Exam this will be the “US Containment of the spread of Communism”)	2 hours	40%
Paper 3	Coursework - Students will work in class on a Depth investigation into an issue surrounding Weimar or Nazi Germany.	Ongoing	20%

Career

Students wishing to go to University to study any degree that includes a high amount of academia will find a History IGCSE to be ideal preparation. Such degree subjects include History itself, and also Law, Sociology, Archaeology, Media, Journalism, Marketing and Management to name but a few. Beyond IGCSE, a History A-Level and/or History degree have been proven to be valued by a wide range of employers, due to the extensive and transferable skills that are developed during Historical study. Students who obtain good History qualifications have gone on to successful careers in areas such as Heritage, Law, Journalism, Research, Politics, Economics, Teaching, Marketing and Management.



Business Studies IGCSE (0450)

**“Whether you think you can, or
think you can’t – you’re right.” —
Henry Ford, founder of the Ford
Motor Company**



Course Brief

Business Studies helps you to gain an understanding of business activity from small enterprises to multi-national organisations. The course covers a wide range of topics, such as managing people, finance, production and marketing. IGCSE Business Studies students will gain lifelong skills, including:

- the ability to calculate and interpret business data.
- communication skills needed to support arguments with reasons.
- The ability to analyse business situations and reach decisions or judgements.

Course structure

Topic
Understanding business activity This unit includes types of business organisations and objectives of businesses and their stakeholders
People in business Studies how businesses motivate, recruit, select and train their workers as well as communication methods
Marketing Includes market research methods as well as the marketing mix and marketing strategies that can be used by businesses
Operations management Studies alternative production methods of a business and how quality can be achieved as well as factors involved in making location decisions
Financial information and decisions Identifies sources of finance available to businesses as well as construction and analysis of the financial statements of a business
External influences on business activity Students gain an understanding of government economic objectives and policies that can impact on businesses as well as the environmental and ethical issues surrounding business activities



Assessment Structure

Candidates take two compulsory components, Paper 1 and Paper 2.

	Structure	Time	Weighting
Paper 1	1 hour 30 minutes Written examination requiring a mixture of short answers and structured data responses.	May/June	50%
Paper 2	1 hour 30 minutes Written examination consisting of four questions based on a case study	May/June	50%

Careers

IGCSE business studies is a subject that has real life application. It's a highly valuable subject if you are considering starting your own business in the future or you are interested in pursuing a career in finance, accounting, marketing, management and other business related areas. IGCSE business studies is highly recommended for students considering undertaking A level business.



Economics IGCSE (0455)

“Economics is everywhere, and understanding economics can help you make better decisions and lead a happier life.”

- Tyler Cowen



Course Brief

The Cambridge IGCSE Economics course is an excellent foundation for advanced study in economics. It focuses upon the nature of economics. It examines essential microeconomics, which analyses the market behaviour of individual consumers and firms, and macroeconomics, which focuses on the national and international economy. Students who study economics gain lifelong skills, including: the ability to distinguish between facts and value judgements in economic issues and the ability to take a greater part in decision making processes in everyday life.

Course structure

Topics
<p>The Basic economic problem Introduces the fundamental ideas and concepts that underpin the study of economics including the basic economic problem, factors of production, opportunity cost and production possibility curves.</p>
<p>The allocation of resources The principles of resource allocation are considered through the price mechanism in a market economy. The market forces of demand and supply, market equilibrium and disequilibrium, and elasticity.</p>
<p>Microeconomic Decision Makers The role of the major decision makers in the microeconomy; banks, households, workers, trade unions and firms.</p>
<p>Government and the macroeconomy Macroeconomic aims of government, economic indicators, policies used to achieve government macroeconomic aims and conflicts which may arise.</p>
<p>Economic Development Influences on development, changes in population, living standards, poverty and income redistribution as an economy develops.</p>
<p>International trade and globalisation The importance of trade between countries and the growth of globalisation. Specialisation, the role of free trade, the role of multinationals, foreign exchange rates and the balance of payments.</p>



Assessment Structure (All students take both papers)

	Structure	Time	Weighting
Paper 1	Multiple Choice 45 minutes	May/June	30%
Paper 2	Structured Questions 2 hours 15 minutes	May/June	70%

Careers

Economics would be a valuable subject for students who wish to enter university courses in Economics, Business Administration, Accounting, Politics, Law or Journalism. It is highly recommended that students considering studying A Level Economics undertake this subject.



Sekolah Dyatmika

2021-2022

COURSE CHOICES - CLASS 9 & 10

Music IGCSE (0410)

**“Music is a higher revelation
than all wisdom and
philosophy.”**

- Ludwig van Beethoven



Course Brief

The IGCSE Music course aims to develop appreciation and enjoyment of music through active involvement in the three areas of Listening, Performing and Composing.

Choose Music at IGCSE if you:

- enjoy performing music and are learning an instrument, having singing lessons or creating music at home.
- want to broaden your knowledge of all types of music, including classical, popular and world and gain an appreciation of the diversity of musical styles that exist today.
- enjoy listening to music and discovering how a piece of music “works”
- are able to devote time to broaden your musical experience by listening to a wide range of music in your own time.
- are prepared to spend time practising and improving your performance technique at home.

Course Requirements

Singing or playing a musical instrument must be something you already do on a daily basis. You should be confident in singing or playing your instrument and you should have a basic knowledge and understanding of staff notation.

You must be open-minded about learning about music from a huge range of times and places.



Course and Assessment Structure

Components	Weighting
1. Performing Coursework - 50 marks Two prepared performances, one individual and one ensemble. You will need to prepare one piece or two short contrasting pieces both as a solo and as an ensemble – lasting a total of between 4-10 minutes	30%
2. Composing Coursework - 50 marks You will need to compose two contrasting pieces. One of the pieces must be written in a Western style and fully notated using staff notation. The second piece may be in any style of your choice and notated in whatever form of notation is appropriate to the music.	30%
3. Listening Examination (1 hour 15 minutes) - 70 marks Aural awareness, perception and discrimination in relation to Western music. Identifying and commenting on a range of music from cultures in different countries. Knowledge and understanding of one World Focus from a non-Western culture and one Western Set Work.	40%

Careers

IGCSE music is a very useful qualification to have, even if you are not thinking of specialising in music later on. Particularly useful for any job where creative skills, self-discipline and energy are required: TV & Radio (presenting or production), the film industry, theatre, music management, music therapy, recording engineer, music teacher, record industry, professional musician. (singer, orchestra member, pop star, etc.) composer or arranger (pop songs, TV themes, adverts, Internet websites, computer games, and the occasional symphony!) arts administration, marketing.



Art and Design IGCSE (0400)

“If you hear a voice within you say ‘you cannot paint,’ then by all means paint, and that voice will be silenced.”

- Vincent Van Gogh



Course Brief

Cambridge IGCSE Art & Design is a course specially designed for international students and recognized by universities, art colleges and employers around the world. It allows students to gain knowledge and experience of visual arts through practical and cultural awareness.

It encourages a range of skills, stimulates aesthetic awareness, knowledge and critical understanding of art, and provides opportunities for learners to develop a range of skills. The course is designed to accommodate a wide range of abilities, materials and resources.

It is suitable for students who wish to explore practical work through a range of two and three-dimensional processes and includes new digital media in addition to traditional techniques. It also helps to develop lifelong skills including communication skills, especially the ability to communicate concepts and feelings, problem solving, creative thinking and critical reflection. Students will be expected to record observations first hand and to draw on personal experiences.

The course stimulates interest, enjoyment and personal enrichment as well as introducing artistic exploration and design thinking.

Learners beginning this course are not expected to have studied art and design previously.

Course structure

Areas of Study

Possible areas of study, could include one or more of the following.

Possible areas of study, could include one or more of the following.

Painting and related media;

Printmaking;

Three-dimensional studies;

Photography, digital and lens-based media;

Graphic communication;

Textile design



Assessment Structure

	Structure	Time	Weighting
Component 1 Coursework	Students research, develop and realise a project from one area of study from a theme set by the teacher. There are two parts to the coursework: a portfolio supporting studies (8 x A2 boards of developmental work) and a final outcome. This is externally assessed	August to January	50%
Component 2 Art Exam	Students respond to one starting point set by Cambridge International. They may produce work from the same area of study as Component 1, but they do not have to. There are two parts to the exam: supporting studies (4 x A2 boards of developmental work) and a final outcome, produced during a supervised test of 8 hours' total duration.	January to March Class 10	50%

Progression

Candidates who are awarded A* to B in Cambridge IGCSE Art and Design are well prepared to follow courses leading to CIE AS and A Level Art and Design or the equivalent.

Careers

This is an essential subject for those wishing to pursue a career in any of the creative industries. There are many jobs associated with art designs including fashion designer, illustrator, graphic designers, interior designer, art teacher, fine artist, curator, photographer, animator, games designer and many more.



ICT IGCSE (0417)

**“Software is a great combination
between artistry and engineering”**

- Bill Gates



Course Brief

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

- understanding and using applications;
- using Information and Communication Technology (ICT) to solve problems;
- analysing, designing, implementing, testing and evaluating ICT systems, ensuring that they are fit for purpose;
- understanding the implications of technology in society, including social, economic and ethical uses;
- awareness of the ways ICT can help in home, learning and work environments.

Course structure

This two-year course is offered in classes 9 and 10, with topics addressed in accordance with the following schedule:

Class 9	Class 10
Types and components of computer systems Communication using ICTs Input and output devices Safety and security issues Storage devices and media ICT applications Document production Styles Data manipulation (databases) Proofing documents File management Layout of documents Data analysis (spreadsheets) Audience considerations Image editing Website authoring	The effects of using IT Data manipulation (databases) ICT applications Graphs and charts Proofing documents Communication using ICTs Document production Layout of documents Proofing documents ICT applications Data analysis (spreadsheets) Audience considerations Networks and the effects of using them Presentations Website authoring The systems life cycle



Assessment Structure

	Structure	Time	Weighting
Paper 1	Written theory paper: 2 hours	May / June, class 10	40%
Paper 2	Practical: 2 hours 30 minutes document production, data manipulation and presentations	April, class 10	30%
Paper 3	Practical: 2 hours 30 minutes data analysis and website authoring	April, class 10	30%

Careers

This course prepares students for a variety of university and career options, including ICT careers and applied ICT, business, and engineering courses. The IGCSE ICT course provides the pre-requisite knowledge and skills required for the successful completion of AS and A Level Information Technology.



IGCSE Physical Education (0413)

**“Anima Sana In Corpore Sano
(asics) – A healthy mind in a
healthy body”**

**If it doesn't Challenge you, it will
never change you!**



Course Brief

The IGCSE PE course will challenge a student's body and mind to Plan, Perform and Analyse their performance. It is suitable for students who are active and already involved in a variety of sports who also want to challenge their mind and discover how the body works. How, why and what type of training and practice can improve you physically, physiologically and psychologically.

Cambridge International IGCSE Physical Education allows students the opportunity to study both the practical and theoretical aspects of Physical Education. The course covers a wide variety of topics including the skeletal and muscular systems, injuries, the media in sport and global sporting events. It is an exciting, yet demanding course that gives students a real insight into their own and others' sporting performance. Successful candidates gain lifelong skills, including:

- the ability to plan, perform, evaluate and improve in physical activities
- the knowledge, skills and understanding of rules and laws of at least 4 different Sports.

Course structure

The course covers both practical performance, and theoretical understanding of Physical Education & Sport. The students practical ability is assessed continually throughout the 2 years and is based on their sporting performance. Video evidence of students' performance must be provided as part of their practical assessment in all 4 Sports.

Theoretical Units of Study	Topic
Unit 1. Anatomy & Physiology	Skeleton and joints Muscles and tendons Respiratory system Circulatory System Simple Biomechanics



COURSE CHOICES - CLASS 9 & 10

Theory Units	Topic
Unit 2. Health, Fitness and training	Health Components of Fitness Diet Exercise and training
Unit 3. Skill Acquisition and Psychology of Sport	Skill and Ability Information Processing Stages of Learning a Skill Feedback Motivation and Goal Setting
Unit 4. Social, Cultural and Ethical Influences in Sport	Leisure and Recreation Sports Development Sponsorship Effects of Media Technology in Sport Effects of Performance Enhancing Drugs

Students are assessed in their four strongest sports from a specified list. In the past this has included sports such as Football, Volleyball, Basketball, Golf, Badminton, Tennis, Dance, Competitive Swimming, Life saving, Weight training for Fitness and Athletics.

The theoretical component of the course is fascinating, and is relevant to students who have an interest in gaining and applying knowledge and understanding of how the body works to improve their sporting performance. To achieve success in this part of the course they must have an ability to relate the topics with their own sporting experience. They must also be committed to improving their knowledge and understanding at all stages throughout the course.



Assessment Structure

Component 1	Components 2
Paper 1 1 hour 45 minutes	Coursework
<p>Section A: Candidates complete short answer questions on each of the three units: Factors affecting performance; Health, safety and training; Reasons and opportunities for participation in physical activity.</p> <p>Section B: Candidates answer three structured questions, one from each of the three units they have studied.</p>	<p>Practical performance: Candidates choose to undertake four practical activities/sports from a specified list.</p> <p>Students are assessed in their Skill of each sport and also their performance in semi competitive situations within a game. Students are required to plan, perform and evaluate their performance and to demonstrate improvement through practice and training.</p>
50% of total marks	50% of total marks

Careers

This subject is ideal for students who are motivated learners and enjoy physical activity and sport. It is essential that they are prepared to work hard in both the theory and practical elements of the course, and have a passion for the subject. As a large proportion of this course is assessed practically through the students' performance in sport, therefore it is vital that they have good physical health and ability upon starting the course. They must attend school and outside sports activities & clubs regularly and are eager and motivated to challenge themselves to improve.



Support and Advice

Counselors.....Ibu Ina, Pak Ridzki
Careers Adviser.....Ibu Sarah
Academic and Pastoral Leader (6-8).....Pak Philis
Academic and Pastoral Leader (9-10).....Pak Kev
Head of High School.....Pak Jon C

All subject teachers are available to give advice on their subjects.

Resources and Books

Textbooks for all subjects are provided, and kept, in class. Students can purchase their own textbook from the school shop if they wish, or can check out the textbooks from the library.



Cambridge Examination Fees

Cambridge Assessment International Education charge a fee for students who take examinations at IGCSE, AS and A Levels. These fees must be paid by parents before students are entered into examinations, in line with Cambridge's regulations.

In order to streamline the process of examination entry, parents are asked for an advance payment during October to cover the cost of all exam fees. In 2019-20 this payment was:

Class 10 IDR 14 million

Class 11 IDR 7 million

Class 12 IDR 6.5 million

Please Note:

1. Cambridge change their fees slightly each year and exact fees are affected by the IDR to GBP exchange rate.
 - The exact cost is calculated after the entries are confirmed, and retrospective invoices issued.
 - Any surplus fees are credited against future school fees.
 - Any shortfall due to major currency fluctuations are billed to parents.
2. Examination entries are only processed once fee payment is received. Delays in payment by parents will result in a 'late entry fee', following Cambridge Assessment International Education's procedures. The school cannot absorb late fee costs, it is billed to parents.
3. Dyatmika does not charge any additional administration fees for these examinations.
4. Parents will receive a letter early in the school year when examination fees are to be paid.
5. Parents are responsible for fees associated with any examination resits.



Cambridge Assessment
International Education

Cambridge International School



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