Monthly Academic Study Plan-2021 Std. XIA [International Advanced Subsidiary (IAS) Sub: Pure Mathematics 1(P1)

Books: Pure Mathematic (1(student book)

Writer: Greg Attwood, Alistàir Macpherson Bronwen Moran, Jeo Patran, Keith Pledger, Geoff Staley

2. A level Mathematics Chapter wise Question Paper.

1st Term (3 January to 16 June, 2021)

1st Term (5 January to 10 June, 2021)		
Month	Number of Classes	Topics
February	10	Chapter 1: Algebra Expressions, Pg (1 – 17) Chapter 2: Quadratics, Pg (1 – 33) & Question Paper solving related to the chapter
March	12	Chapter 3: Equation and Inequalities, Pg (33 – 54) Chapter 4: Graphs and Transformation, Pg (58-65) & Question Paper solving related to the chapter
April	06	Chapter 4: Graphs and Transformation, Pg (65-78) Chapter 5: Straight line graphs (51-72) Chapter 6: Trigonometric ratios, pg (104-119) & Question Paper solving related to the chapter
May	05	Chapter 6: Trigonometric ratios, pg (104-119) & Question Paper solving related to the chapter
June	05	Revision

2nd Term (7 July to 15 November, 2021)

Month	Number of Classes	Chapter
July	08	Chapter 7: Radians, Page (133 – 145) & Question Paper solving related to the chapter
August	08	Chapter 8: Differentiation, Page (150 – 167) & Question Paper solving related to the chapter
September	10	Chapter 8: Integration Page (170 – 178
October	16	Overall revision, year wise QP solving
November	12	Qualifying test and
December		Mock test

Note: Question pattern and distribution of marks according to IAS and IAL pattern.

Monthly Academic Study Plan-2021 Std. XIA [International Advanced Subsidiary (IAS) Sub: Pure Mathematics 2 (P2)

Books: Pure Mathematic 2 (student book)

Writer: Greg Attwood, Alistair Macpherson Bronwen Moran, Jeo Patran, Keith Pledger, Geoff Staley

2. A level Mathematics Chapter wise Question Paper.

Month	Number of Classes	Topics
February	10	Chapter 1: Algebra Methods, Pg (1 – 21) Chapter 2: Coordinate Geometry in (x-y) plane, Pg (25-44) & Question Paper solving related to the chapter
March	12	Chapter 3: Equation and Logarithms, Pg (49–60) Chapter 4: The Binomial Expansion, Pg (62 –67) & Question Paper solving related to the chapter
April	06	Chapter 4: The Binomial Expansion, Pg (67 – 77) Chapter 5: Sequences and Series (80-107) & Question Paper solving related to the chapter
May	05	Chapter 6: Trigonometric Identities and Equations, Page (125-133) & Question Paper solving related to the chapter
June	05	Revision

Month	Number of Classes	Chapter
July	08	Chapter 7 : Differentiation, Page (137 – 148) & Question Paper solving related to the chapter
August	08	Chapter 8: Integration Page (152 – 170) & Question Paper solving related to the chapter
September	10	Chapter 8: Integration
October	16	Overall revision, year wise QP solving
November	12	Qualifying test and
December		Mock test

Note: Question pattern and distribution of marks according to IAS and IAL pattern.

Monthly Academic Study Plan-2021 Std. XI A (IAL) Subject: Mechanics 1

Books: Pearson Edexcel International A Level Mechanics 1Student Book

1st Term (3 January to 16 June, 2021)

Months	No. of Classes	Chapters/ Topics
February	14	Chapter 1: Mathematical Models in Mechanics Chapter 2: Constant Acceleration Related problem from Review Ex 1
March	15	Chapter 3: Vectors in Mechanics Chapter 4: Dynamics of A Particle Moving in A Straight Line Related problem from Review Ex 1
April	17	Chapter 5: Forces and Friction Related problem from Review Ex 2
May	2	Revision & Question Paper Solution
June	5	Revision & Question Paper Solution

2nd Term (7 July to 15 November, 2021)

Months	No. of Classes	Chapters/ Topics
July	10	Chapter 6: Momentum and Impulse Related problem from Review Exercise - 2
August	13	Chapter 7: Statics of a Particle Related problem from Review Exercise - 2
September	18	Chapter-8: Moments Related problem from Review Exercise - 2 Revision & Question Paper Solution

Note: Question pattern and distribution of marks according to IAS and IAL pattern.

Monthly Academic Study Plan-2021 Std. XI (International)

Subject: Physics

Book: Pearson Edexcellnternational AS/ALevel, Physics Students Book 1 (Miles Hudson)

1st Term (3 January to 16 June, 2021)		
Months	Number of Classes	Chapter/Topic
February	16	Working as a physicist 1. Standard units in physics 2. Estimation Topic-1 (Mechanics), 1A Motion 1-Velocity and acceleration Unit 2: Topic 3 (Wave basics 2. Wave types 3B- (Behaviour of waves) 1. Wave phase and superpostion Solving Past paper Question related to the chapters.
March	14	Topic-1 (Mechanics), 1A 1A Motion 1-Velocity and acceeration 2- Motion graphs 3-adding forces 4-Moments Unit 2: 3B 2. Stationary waves 3. Difraction 4. Wave interference Solving Past paper Questions related to the chapter
April	05	Topic -1 (Mechanics), 1A 1A Motion 1- Newton's law of motion 2-Kinematics equation 3- Resolving vectors 4- Projectiles Unit 23C (More wave properties of light) 1. Refraction 2. Total internal reflection Solving past paper Question related to the chapters

May	04	Topic - (Mechanics) 1B Energy 1. Gravitational potential and kinetic energies 2. Work and power Topic-1 (Mechanics) IC Energy 1- Momentum 2- conservation of linear momentum Unit 2 3C 3. Polarisation 3D (Quantum Physics) 1. Wave-particle duality 2. The photoelectric effect. Unit 2 3D 3. Electron diffraction adn interference 4. Atomic electrom energies Solving past paper Questions related to the chapters.
June	09	Revision

Months	Number of Classes	Chapter/Topic
July	08	Unit 2: Topic 4 (Electric circuits) 4A (Electrical quantities) 1. Electric current 2. Electrical energy transfer 3. Current and voltage relationships 4. Resistivity 5. Conduction and resistance 6. Semiconductors Topic-2 (Materials) 2A Fluids 1-Fluids, density and up thrust 2- fluid movement 3- viscosity 4- Termal velocity Solving past paper Questions related to the chapters.
August	14	Topic - 2 (Materials), 2A Fluids 1- Hooke's Law 2. Stress, Strain and the young modulus

		3. Stress-stain graph Unit 2: 4 B (complete electrical circuits) 1. Series and parallel ciruits 2. Electrical circuits rules 3. Potential dividers. 4. EMF and internal resistance. 5. Power in electric circuits Solving past paper Questions related to the chapters.
September	12	Qualifying Test Unit 1, Unit 2 & Unit 3 Solving Past paper Questions (Jan 2009 – June 2014)
October	10	Mock Test
November	08	Mock Test

Question Pattern & Marks Distribution:

Total	= 100
CT	= 25
First Half Yearly Exam Total converted into	= 75
First Half Yearly Exam: Unit 1 + Unit 2 + Unit 3 =	= 80 + 80 + 50 = 210

Second Half Yearly Exam -3 Mock exams covering all the chapters of IAS syllabus.

Type of Question – There will be three units in Physics. The question pattern will be as per IAS Specification.

Monthly Academic Study Plan-2021 Std. XI A (International) Subject: Chemistry

Book: Edexcel AS Chemistry

1st Term (3 January to 16 June, 2021)		
Months	No. of Classes	Chapter/Topic
February	14	Unit 1:Chapter 1- Formulae, equations and amounts of substance Chapter 2- Atomic structure and the periodic table Unit 2: Topic 6- Energetics, Topic 7- Intermoleccular Forces Unit 3:" Core Practical 2, 3 Unit 1, Unit 2 & Unit 3 Solving Past paper Questions related to the chapters
March	13	Unit 1: Chapter 3- Bonding and Structure Chapter 4- Introductory organic chemistry and alkanes Unit 2: Topic 8- Redox Chemistry and Groups 1, 2, 7 Unit 1, Unit 2 & Unit 3 Solving Past paper Questions related to the chapters
April	05	Unit 1: Chapter 5- Alkenes Unit 2: Topic 8- Redox Chemistry a groups 1, 2, 7 Unit 3: Core Practical 4 Unit 1, Unit 2 & Unit 3 Solving Past paper Questions related to the chapters
May	02	Unit 1, Unit 2 & Unit 3 Solving Past paper Questions
June	12	Revision

2 Term (7 day to 15 Hoveliber, 2021)		
Months	No. of Classes	Chapter/Topic
July	06	Unit 2: Topic 9- Introduction to kinetics & Equilibria Unit 1, Unit 2 & Unit 3 Solving Past paper Questions (June 2019-Jan2018)
August	14	Unit 2, Topic 10- Organic Chemistry: Halogenoalkanes, Alchols and Spectra Unit 3: Core Practical 5, 6, 7, 8 Unit 1, Unit- 2 Unit -3 Solving Past paper Questions (Jan 2014 – June 2017)
September	12	Qualifying Test Unit 1, Unit 2 & Unit 3 Solving Past paper Questions (Jan 2009 – June 2013)
October	07	Mock Test
November	08	Mock Test

Question Pattern & Marks Distribution:

First Half Yearly Exam: Unit 1 + Unit 2 + Unit 3 =	= 80 + 80 + 50 = 210
First Half Yearly ExamTotal converted into	= 75
CT	= 25
Total	= 100

 2^{nd} Term Exam - 3 Mock exams covering all the chapters of IAS syllabus. Type of Question - There will be three units in Chemistry. The question pattern will be as per IASspecification.

Monthly Academic Study Plan-2021 Level: International Advance Level (IAL) CLASS. XIA

Subject: Biology Unit 1, 2 and 3

Book: Edexcel AS Biology student's

Months	No. of classes	Chapters
January	12	Topic 1 Molecules, Transport and Health. Chemistry for Biologists. The Chemistry of life. Carbohyerates Mono and Polysaccharide
February	12	Topic 2 Molecules, Transport and Health, Lipid and proteins, Mammalian transport system Principles of circulation. The roles of the blood.
March	13	Topic 3 Membrane, Proteins, DNA and Gene expression, Molecules, Transport and Health. Circulation of the blood vesse. Cardiovascular health and risk The benefit and risks of treatment
April	05	Topic 4 Membrane Proteins, DNA and Gene expression Cell membrance, Cell transport and diffusion
May	2	A special case of diffusion
June	06	Topic 2 Membrance, Proteins, DNA and Gene expression Proteins and DNA Gene Expression and genetics

Months	No. of Classes	Chapters
July	7	Topic 3- Cell structure. Reproduction and development. Active transpor Osmosis, Eukaryotic cells 1 & 2
August	07	Topic 3- Cell structure. Reproduction and development. Protein transport in cells Asexual reproduction and natural cloning
		Topic 4 Plant structure and function, Biodiversity and conservation. Plant Pharmacies Modern drug development Developing new drugs.
September	15	1st Mock test
October	06	2nd Mock test
November	09	3rd Mock test

Question Pattern & Marks Distribution:

First Half Yearly Exam: Unit 1 + Unit 2 + Unit 3 = 80 + 80 + 50 = 210

First Half Yearly Exam Total converted into = 75

CT = 25

Total = 100

Second Half Yearly Exam -3 Mock exams covering all the chapters of IAS syllabus.

Type of Question – There will be three units in Biology. The question pattern will be as per IAS Specification.

Monthly Academic Study Plan-2021 Level: International Advance Level (IAL) CLASS. XIA

Subject: Psychology

Book: Edexcel AS/A level Psychology Pearson

1st Term (3 January to 16 June, 2021)

1st Term (5 January to 16 June, 2021)		
Months	No. of classes	Chapters
February	10	Social Psychology: Obedience (Theories of obedience, Research into obedience, factors affection obedience and resistance to obedience including individual Differences egpersonality, gender, situation, culture.
March	11	Prejudice-Explanction and research into prejudice, factors affecting prejudice, Social identity theory, realistic conflict theory. Individual differences in obedience/prejudice Developmental psychology in obedience/prejudice
April	11	Methods: Self reporting data (Designing & conducting questionnaires, interviews-unstructured semi-sturctured and unstructured interviews, open & close questions) Sample selection and techniques Analysis of qualitative data (ventral)
May	05	Fthical guidelelines: BPS code of ethics and conduct including risk management. Different Classic studies
June	05	Revision

2nd Term (7 July to 15 November, 2021)

2 Term (7 daly to 15 110 temper, 2021)		
Months	No. of Classes	Chapters
July	15	Cognitive Psychology: Memory (the working memory model, the multi story model of memory), Explanation of long term memory- episodic and semantic memory,

		Reconstructive memory including schema theory, Individual differences in memory, Developmental psychology in memory. Experimental methods: -Designing and conducting experiments, independent and dependent variables, experimental & null hypothesis Experimental & research designs -Operationalisation of variables, extraneous variables
August	08	Experimental methods: -Counterbalancing, randomization & order effect -Situational & participant variables -objectivity, reliability & validity -Experimental effects, demand characteristics & control issues. Quantitative data analysis: -Analysis of quantitative data: calculate measures of central tendency, frequency tables, measures of dispersion (range and standard deviation), percentagesGraphical presentation of data (bar graph, histogram) -Decision making and interpretation of
		Inferential Statistics -Case study of brain-damaged patients, including Henry Molaison (HM)
September	13	- Different classic studies
October	10	-Practical Investigation: One Practical research
November	13	exercise to gather data relevant to topics covered in cognitive psychology. -Overall revision, year wise QP solving, Qualifying test and mock test.

Note: Question pattern and mark distribution as per Edexcel question paper and marks distribution

Monthly Academic Study Plan-2021 Std. XI A (IAL)

Subject: Business Studies

Book: Pearson Edexcel Internation A Level Business 1 Student Book

1st Term (3 January to 16 June, 2021) Unit 1: Marketing and People

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Months	No. of Classes	Chapters/ Topics
February	11	Chapter 1-3: Meeting Customer Needs Chapter 4-8: The Market Related problem from review exercisr-1
March	14	Chapter 9-13: Marketing Mix and Strategy Chapter 14: Approaches to Staffing Chapter 15: Recruitment, Selectiona and Training Related problem from review exercisr-1
April	06	Chapter 16-18: Managing People Chapter 19-22: Entrepreneurs and Leaders Related problem from review exercisr-2
May	04	Revision & Question Paper Solution
June	05	Revision & Question Paper Solution

2nd Term (7 July to 15 November, 2021)

Months	No. of Classes	Chapters/ Topics
July	08	Chapter 23-28: Planning a Businiess and Raising Finance Related problem from review exercisr-2
August	11	Chapter 28-33: Financial Planning Chapter 34-36: Managing Finance Related problem from review exercisr-2
September	16	Chapter 37-40: Resource Management Chapter 41-43: External Influences Related problem from review exercisr-2 Revision & Question Paper Solution
Oct-Dec.		QP Solution & Mock

Note: Question pattern and distribution of marks according to IAS and IAL Pattern.

Monthly Academic Study Plan-2021 Std. XI (International)

Subject: Economics

Books: Pearson Edexcel International AS/A Level Economics Student

Book-1

Author: Alan Hewison & Tracey Joad

Months	No. of Classes	Chapters/ Topics
February	8	Unit – 1: MAKETS IN ACTION Introductory Concepts Chapter: 1 to 5
March	8	Unit – 1: MAKETS IN ACTION Consumer Behavior and Demand Chapter: 6 to 9 Supply Chapter: 10 UNIT 2: MACROECONOMICS PERFORMANCE AND POLICY Measures of Economic Performance Chapter: 21 to 16
April	4	Unit – 1: MAKETS IN ACTION Price Determination Chapter: 11 to 13 UNIT 2: MACROECONOMICS PERFORMANCE AND POLICY Aggregate Demand Chapter: 27 to 30 Aggregate Supply Chapter: 31
May	02	Revision & Related Question Paper Solution
June	06	Revision & Related Question Paper Solution

Months	No. of Classes	Chapters/ Topics
		Unit – 1: MAKETS IN ACTION
		Market Failure
	_	Chapter: 14 to 18
July	4	UNIT 2: MACROECONOMICS
		PERFORMANCE AND POLICY
		National Income
		Chapter: 32 to 34
	8	Unit – 1: MAKETS IN ACTION
		Govt. Intervention in Markets
		Chapter: 19 to 20
August		UNIT 2: MACROECONOMICS
		PERFORMANCE AND POLICY
		Economic Growth
		Chapter: 35 to 36
	8	UNIT 2: MACROECONOMICS
		PERFORMANCE AND POLICY
September		Macroeconomic Objectives and
		Policies
		Chapter: 37 to 40
		Revision & Related Question Paper Solution
Oct-Dec		Question Solution & Mock

Note: Question pattern and mark distribution as per Edexcel IAL questions paper and marks distribution.

Monthly Academic Study Plan-2021 Std. XIA [International Advance Subsidiary (IAS)] Subject: Information Technology (Unit 1)

2nd Term (7 July to 15 November, 2021)

Months	No. of Classes	Chapters/ Topics
July	05	Topical (a): Hardwar
August	05	Topical (a): Software
September	04	Topic 2 : Network
October	(01+04)	Topic 3 : Online Error Ment Topic 4 : IT System
November	04	Topic 1, 2, 3, 4 Revision
December	·	Exam

Note: Question pattern distribution of mark according to IAS and IAL pattern.

Monthly Academic Study Plan-2021 Std. XIA [International Advance Subsidiary (IAS)] Subject: Information Technology (Unit 2)

2nd Term (6 July to 15 November, 2021)

Months	No. of Classes	Chapters/ Topics
July	05	Topic 7: Understanding the functionality of HTML
August	05	Topic 7: Understanding the functionality of HTML Topic 8: Understanding the functionality of CSS
September	04	Topic 8: Understanding the functionality of CSS Topic 9: Understanding the functionality of JavaScript
October	08	Topic 8: Understanding the functionality of CSS Topic 9: Understanding the functionality of JavaScript
November	04	Topic 9: Understanding the functionality of JavaScript Revision
December		Exam

Note: Question pattern distribution of mark according to IAS and IAL pattern.

Monthly Academic Study Plan-2021 Std. XI (International) Subject: IAS Accounting

Book: i) A-Level Accounting – H Randall

ii) A-Level Accounting - Frank Wood & Alan Sangster

Months	Number of Classes	Topics / Chapters
January	16	Principles of accounting and double entry book keeping: H Randall: Chapter - 01 Question paper solving related to the chapter
February	14	Control procedures: H Randall: Chapter - 02 Question paper solving related to the chapter
March	14	Financial statements of organization: H Randall: Chapter - 09 Question paper solving related to the chapter
April	05	Introduction to costing (Manufacturing accounts): H Randall: Chapter - 16 Question paper solving related to the chapter
May	04	Revision
June	09	Revision

Months	Number of Classes	Topics / Chapters
July	16	Introduction to costing (Manufacturing accounts): H Randall: Chapter - 16 Question paper solving related to the chapter
August	14	Analysis of accounting statements: H Randall: Chapter - 24 Question paper solving related to the chapter
September	12	Analysis of accounting statements: H Randall: Chapter - 24 Question paper solving related to the chapter
October	07	Social and ethical accounting: H Randall: Chapter - 27 Question paper solving related to the chapter
November	08	Revision

Question Pattern, Time & Marks Distribution:

Time:3 hours 100 marks in total

Marks distribution:

- ***** Question as per IAL Pattern
- **❖** Short question
- ❖ Accounting problem