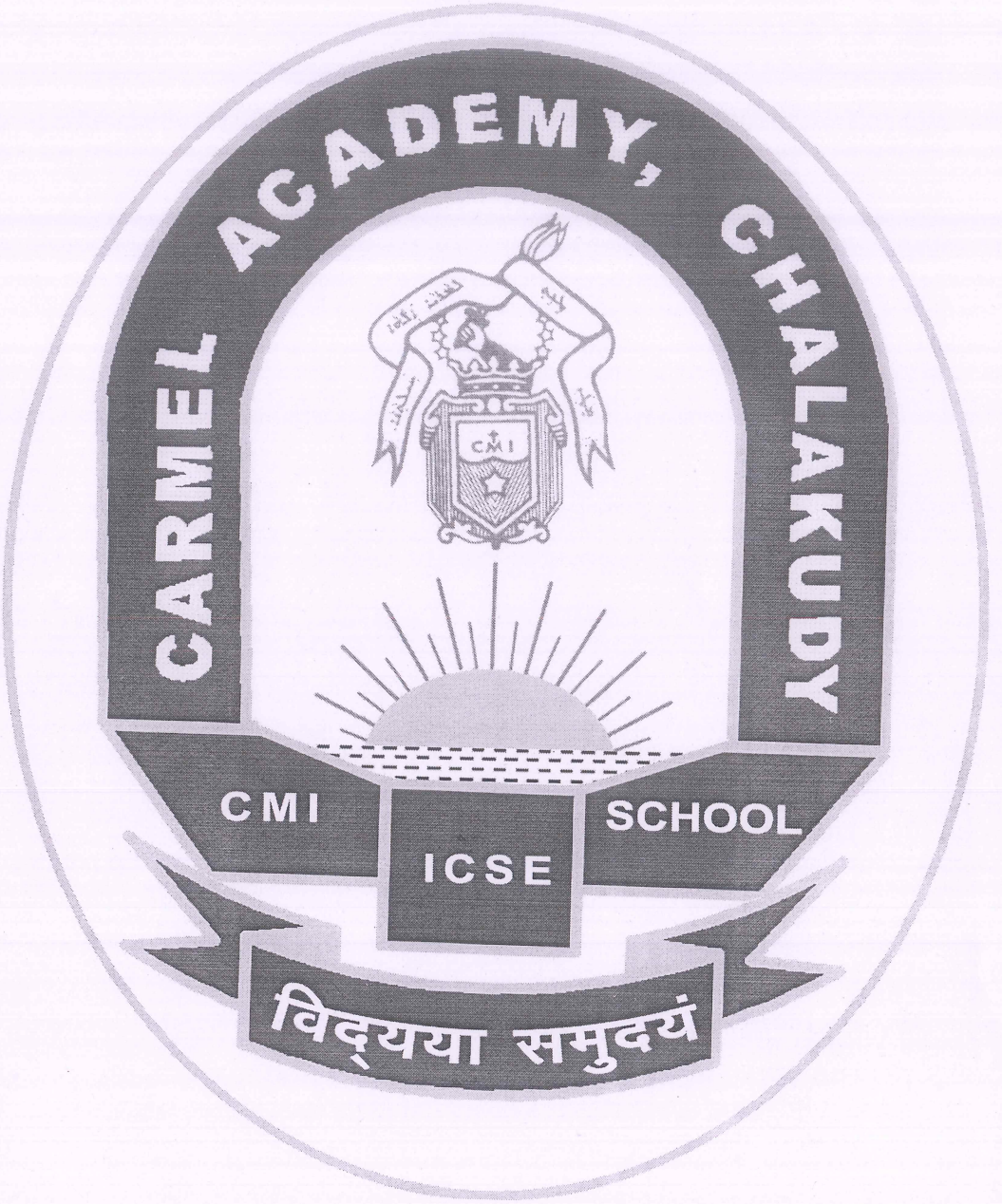

CARMEL ACADEMY, CHALAKUDY
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CARMEL ACADEMY CHALAKUDY
LIST OF TEXT BOOKS 2024-'25
Gr. 11

Sl. No.	Class	Subject	Name of the Book
1	Gr.11	English	Total English
2	Gr.11	English	Macbeth
3	Gr.11	English	Prism: ISC Collection of Short Stories
4	Gr.11	English	Rhapsody: ISC Collection of Poems
5	Gr.11	Physics	Physics (Part 1 & Part 2)
6	Gr.11	Chemistry	Chemistry (Part 1 & Part 2)
7	Gr.11	Mathematics	Mathematics
8	Gr.11	Computer	APC Understanding ISC Computer Science
9	Gr.11	Biology	Biology

CARMEL ACADEMY, CHALAKUDY

YEAR PLAN – 2024-25

ENGLISH I **GRADE 11**

June

Unit 1

A . Transformation of Sentences(1

B.Proposal Writing

C.Phrasal verb

D.Specimen Paper

Unit 2

A.Transformation of Sentences (2)

B.Composition-Organisation

C. Phrasal Verbs

D.Specimen Paper

July

Unit 3

A. Agreement of Subject and Verb

B. Directed Writing-1

C. Phrasal Verbs

D.Specimen Paper

Unit 4

A. Simple, Compound and Complex Sentences

B.Creative Writing

C.Phrasal Verbs

D.Specimen Paper

Unit 5

A.Direct and Indirect Speech.

B.Description of Characters.

C.Phrasal Verbs

D.Specimen Paper

August

Unit 6

A.Active and Passive Voice.

B.Directed Writing-2

C.Phrasal Verbs

D.Specimen Paper

Unit 7

A.Use of Adjectives

B.Atmosphere in Creative Writing.

C.Phrasal Verbs

D.Specimen Paper

September

Unit 8

A.Conditional Sentences (1)

B.Directed Writing-3

C.Phrasal Verbs

D.Specimen Paper

Unit 9

A.Conditional Setences (2)

B.Characterisation

C.Phrasal Verbs

D.Specimen Paper

October

Unit 10

A.Tenses and Their Use (1)

B.Descriptive Composition

C.Homophones

D.Specimen Paper

Unit 11

A.Tenses and Their Use(2)

B.Argumentative Composition.

C.Homophpnes

D.Specimen Paper

Unit 12

A.Sequences of Tenses

B.Narrative Comosition

C.Correct Use of Words.

D.Specimen Paper

November

Unit 13

A.Use of Multiple Prepositions (1)

B.Short Stories

C.Correct Use of Words.

D.Specimen Paper

Unit 14

A.Use of Multiple Prepositions (2)

B.Comprehension Skills.

C.Correct Use of Words.

D.Specimen Paper

December

Unit 15

A.Use of Since and For

B.Summary Writing

D.Specimen Paper.

CARMEL ACADEMY CHALAKUDY

YEAR PLAN 2024-2025

GRADE: XI **SUBJECT: ENGLISH LITERATURE**

Month	Chapter Numbers & Name
June	Short Story – A Living God Advice to Youth Poem – Abhisara: The Tryst
July	Short Story – The Paper Menagerie Poem – Sonnet 116 – William Shakespeare Drama: Macbeth Act I
August	Short Story – The Great Automatic Grammatiztor Poem – Death of a Natural Drama Drama: Macbeth Act I
September	Short Story – Thank You, ma'am Poem – Strange Meeting Drama – Macbeth Act I
October	Drama – Macbeth Act II
November	Drama – Macbeth Act II

CARMEL ACADEMY CHALAKUDY

YEAR PLAN 2024 - 25

GRADE: XI **SUBJECT: PHYSICS**

Month	Chapter Numbers & Name
June	**Unit 1: Physical World and Measurements** 2. Units and measurements : Error analysis and significant figures 3. Dimensional analysis **Unit 2: KINEMATICS** 4. Motion in a straight line 5. Motion in a plane
July	**Unit 3: LAWS OF MOTION** 6.Newton's laws of motion 7.Friction 8.Uniform circular motion **Unit 4: WORK, ENERGY AND POWER** 9.Work, Energy and Power **Unit 5: MOTION OF SYSTEM OF PARTICLES AND RIGID BODY** 10.Centre of mass 11.Rotational Motion of a rigid body : Moment of inertia
August	**Term I Exam**
September	**Unit 6: GRAVITATION** 12. Gravitation : Planets and Satellites **Unit 7: PROPERTIES OF MATTER** 13. Elasticity 14. Fluid Pressure

October	**Unit 7: PROPERTIES OF MATTER (cont.d)** 15. Flow of Liquids 16. Surface Tension **Unit 8: HEAT AND THERMODYNAMICS** 17. Thermal Properties of Matter 18. Heat Transfer 19.Thermodynamics 20. Isothermal and Adiabatic Process 21. Heat Engine : Second Law of Thermodynamics
November	**Unit 9: BEHAVIOUR OF PERFECT GAS AND KINETIC THEORY OF GASES** 22. Behaviour of perfect gas and kinetic theory of gases **Unit 10: OSCILLATIONS AND WAVES** 23. Simple Harmonic Motion 24. Free and Damped Oscillations 25. Waves 26. Wave Motion
December	**Term II Exam**
January	**Unit 10: OSCILLATIONS AND WAVES** 27. Superposition of Waves-1: Interference and Beats 28. Superposition of Waves-2: Stationary (Standing) Waves: Vibration of Air Columns 29. Vibrations of stretched strings 30. Doppler effect
February	**Term III Exam**

Submitted By
Bindhu Jose A

CARMEL ACADEMY CHALAKUDY

Year Plan 2024-2025

Grade XI **Subject : Chemistry**

Month	Lesson numbers, name &Practical work	Term exam
June	L-2 Structure of atom L-3Classification of elements and periodicity in properties Practical work: Basic laboratory techniques: Salt analysis	
July	L-1 Some basic concepts of chemistry l-4Chemical bonding and molecular structure Practical work: Salt analysis	
August	L-12 Organic Chemistry;Some basic principles and techniques Practical work: Salt analysis	Term 1
September	L-6 Chemical Thermodynamics Practical work: Volumetric analysis	
October	L-7Equilibrium Practical work: Volumetric analysis	
November	13 Hydrocarbons Practical work: Volumetric analysis	
December	L-8 Redox reactions Practical work: Salt analysis	Term 2
January	Revision	Model Exam
February	Revision	Annual Exam

CARMEL ACADEMY CMI ICSE SCHOOL

YEAR PLAN (2024-2025)

GRADE: XI **SUBJECT: BIOLOGY**

Month	Chapter	
June	Unit-1	
	The Living world	
	Biological classification	
	Unit 2	
	Anatomy of flowering plants	
	Structural organization in animals, Cockroach	
July	Morphology of Flowering plants	
	Unit 3	
	Cell-Unit of life	
	Cell cycle and Cell division	
	Bio molecule	
September	Unit 1	
	Plant Kingdom	
	Animal Kingdom Term I	
	Unit 4	
	Transportation in plants	
	Mineral nutrition	
October	Photosynthesis in higher plants	
	Respiration in plants	
	Plant growth and development	
	Unit 5	
November	Digestion and absorption	
	Breathing and exchange of gases	
	Body fluids and circulation	
	Excretory products and their elimination	
December	Locomotion and movement . Term II	
January	Neural control and coordination	
	Chemical coordination and integration	

Teachers In charge-Nisha C J

Nisha Johnson

Practical work and Record

A. Scientific techniques
B. Physiology
C. Morphology
D. Cytology
E. Spotting

PROJECT WORK 2024-2025

GRADE: XI

TERM I

Investigatory project

Project related to experiment on any aspect of plant life and animal life.
Project related to any aspect of environment.
Diabetes
Endocrine disorders
Yeast fermentation

CARMEL ACADEMY CMI ICSE SCHOOL

YEAR PLAN 2024-25

GRADE: ISC I **SUBJECT: MATHEMATICS**

Month	Chapter Numbers & Name
June	**Section A** 10. Complex Numbers 1.Sets 2.Relations and functions 3. Trigonometry 4. Trigonometrical ratios of angles: Relations between them 5. Trigonometrical ratios of allied angles (Negative and associated angles)
July	**Section A** 6. Compound angles: Addition and subtraction formulae. Sum/ Difference to products and Vice versa 7. Trigonometrical ratios of multiple and sub multiple angles. Graphs of trigonometric functions 8. Trigonometrical equations 9.Properties of triangle: Sine and Cosine formulae, Area of triangle 20.Limits 21.Differentiation: Derivatives of function and geometrical interpretation of derivative
August	**Section A** 13.Permutations and combinations 14.Principle of Mathematical Inductions 15.Binomial Theorem 24. Probability
September	**Term I Exam** **Section A** 11.Linear inequalities or inequations

October	**Section A** 12. Quadratic equation: theory of quadratic equations, quadratic expressions 22.Measures of Central tendency: Mean, Median and Mode 23.Measures of dispersion: Range, mean deviation and Standard deviation **Section C** 1.Statistics: The median quartiles, deciles, percentiles and mode, combined mean and standard deviation 2.Correlation Analysis 3.Index numbers 4.Moving averages
November	**Section A** 16. Sequence and series: AP and GP 17. Brief recall of 2D covered in earlier classes: Cartesian system of co-ordinates: Basic concepts of points and their co-ordinates, locus slope 18.Equations of straight lines: Angle between lines, condition for parallel and perpendicular lines 19. Circles
December	**Term II Exam**
January	**Section B** 1. Conic Section: Parabola, Ellipse and Hyperbola 2.Criterion for the general equation of second degree to represent Parabola, Ellipse and Hyperbola: condition for tangency 3.Introduction to three dimensional geometry 4.Mathematical reasoning
February	**Term III Exam**

PROJECTS

Section A:

Using Venn diagram, verify the distributive law for three given non-empty sets A, B and C

Section B:

Use focal property of ellipse to construct ellipse.

Section C:

Find the median from the point of intersection of cumulative frequency curves (less than and more than cumulative frequency curves)

CARMEL ACADEMY YEAR PLAN 2024-25		
COMPUTER SCIENCE (THEORY)		
STANDARD : XI		
MONTH	**CHAP.NO**	**CHAPTERS**
JUNE	1	NUMBERS
	4	INTRODUCTION TO JAVA LANGUAGE
JULY	3	PROPOSITIONAL LOGIC , HARDWARE IMPLEMENTAION, ARITHMETICAL OPERATIONS
	5	CONCEPT OF DATATYPES
AUGUST	2	ENCODING
	6	OPERATORS AND EXPRESSIONS
	9	ARRAYS : SINGLE AND DOUBLE DIMENSIONAL
SEPTEMBER		REVISION
OCTOBER	12	RECURSION
	7	CONDITIONAL AND LOOPING STATEMENTS
	15	TRENDS IN COMPUTING AND ETHICAL ISSUES
NOVEMBER	14	PACKAGES
	8	CHARACTER HANDLING AND STRING MANIPULATIONS
DECEMBER		REVISION
JANUARY	11	BASIC INPUT/OUTPUT DATA FILE HANDLING
	10	METHODS AND CONSTRUCTORS
	13	IMPLEMENTATION OF ALGORITHMS TO SOLVE PROGRAMS

COMPUTER SCIENCE (PROJECT)

1. A project file of 20 program

CARMEL ACADEMY CHALAKUDY
LIST OF TEXT BOOKS 2024-'25
Gr. 12

Sl. No	Class	Subject	Name of the book
1	Gr.12	English	Total English
2	Gr.12	Physics	Physics (Part 1 & Part 2)
3	Gr.12	Physics	Physics Lab Manuel
4	Gr.12	Chemistry	Chemistry Lab Manuel
5	Gr.12	Biology	Biology
6	Gr.12	Biology	Biology Lab Manuel
7	Gr.12	Mathematics	Mathematics
8	Gr.12	Computer	APC Understanding ISC Computer Science

CARMEL ACADEMY CHALAKUDY

YEAR PLAN 2024-2025

GRADE: XII SUBJECT: ENGLISH LANGUAGE

Month	Chapter Numbers & Name
March	<u>Unit 1</u> A Simple, Compound and Complex Sentences B Directed writing-I and Proposal Writing C Phrasal Verbs D Specimen Paper 1 (Solved) <u>Unit 2</u> A Transformation of Sentences (1) B Creative Writing C Phrasal Verbs D Specimen Paper 2 <u>Unit 3</u> A Agreement of Subject and Verb B Atmosphere in Creating Writing C Phrasal Verbs D Specimen Paper 3
April	<u>Unit 4</u> A Tenses and Their Use (1) B Composition - Organisation C Phrasal Verbs D Specimen Paper 4 <u>Unit 5</u> A Tenses and Their Use (2) B Short Stories C Phrasal Verbs D Specimen Paper 5

	Unit 6 A Active and Passive Voice B Directed Writing-II
May	**Unit 6** C Phrasal Verbs D Specimen Paper 6
June	**Unit 7** A Sequences of Tenses B Description of Characters C Phrasal Verbs D Specimen Paper 7 **Unit 8** A Conditional Sentences (1) B Directed Writing- III C Phrasal Verbs D Specimen Paper 8 **Unit 9** A Conditional Sentences (2) B Characterisation C Phrasal Verbs D Specimen Paper 9
July **August**	**Unit 10** A Direct and Indirect Speech B Narrative Composition C Homophones D Specimen Paper 10 **Unit 11** A Transformations of Sentences (2) B Argumentative Composition C Homophones

	D Specimen Paper 11 Unit 12 A Use of Adjectives B Descriptive Composition C Correct Use of Words D Specimen Paper 12
September	Unit 13 A Use of Since and For B Comprehension Skills C Correct Use of Words D Specimen Paper 13 Unit 14 A Use of Multiple Prepositions (1) B Note Making and Summary C Correct Use of Words D Specimen Paper 14
October	Unit 15 A Use of Multiple Prepositions (2) B Elements to Omit in Summary D Specimen Paper 15

PROJECTS

1. 'It is better to live a life of cautious progress than to lead a life full of risks'. Express your views either for or against this statement.

CARMEL ACADEMY CMI ICSE SCHOOL

YEAR PLAN 2024-2025

GRADE: XII

SUBJECT: ENGLISH LITERATURE

Month	Chapter Numbers & Name
June	Short Story – Atithi/ Guest The Cookie Lady Poem – Telephone Conversation
July	Short Story – There will come soft rains Poem – Tithonus Drama: Macbeth Act III, Scene 1,2,3
August	Short Story – Indigo Poem – Beethaven Drama: Macbeth Act III, Scene 4,5,6
September	Short Story – The Medicine Bag Poem – Small Towns and the River Drama – Macbeth Act IV Scene 1
October	Poem – Death be not proud Drama – Macbeth IV Scene 2, 3
November	Drama – Macbeth V Scene I, II, III, IV, V, VI, VII
December	Drama- Macbeth Act V Scene 8,9

CARMEL ACADEMY CMI ICSE SCHOOL

YEAR PLAN 2024-25

GRADE: ISC II **SUBJECT:PHYSICS**

Month	Chapter Numbers & Name
March	**ELECTROSTATICS** **1** Electric Charges and Fields 2 Gauss' Theorem 3:Electric Potential 4 Capacitors and Dielectrics
April	**CURRENT ELECTRICITY** 5 Electric Resistance and Ohm's law 6 DC Circuits and Measurements **DUAL NATURE OF MATTER AND RADIATION** 23. Photoelectric effect 24 Matter waves 25 X- rays
June	**MAGNETIC EFFECTS OF CURRENT AND MAGNETISM** **7** Moving charges and magnetic field 8 Torque on a current loop : Moving coil galvanometer. **MAGNETIC EFFECTS OF CURRENT AND MAGNETISM** **9** Magnetic field and earth's magnetism 10 Magnetic classification of substances **ELECTROMAGNETIC INDUCTION AND ALTERNATING CURRENTS** 11 Electromagnetic induction 12 Alternating Current
July	**OPTICS** **14** Reflection of light : Spherical Mirrors 15 Refraction of light at a plane interface : total internal reflection : optical fibre 16 Refraction of light at spherical surfaces : Lenses **OPTICS** **17** Refraction and dispersion of light through a prism

	18 Optical instruments 19 Wave nature of light : Huygens' Principle 20 Interference of Light **OPTICS** 21 Diffraction of light 22 Polarisation of light
August	**ATOMS AND NUCLEI** 26 Atom, Origin of Spectra : Bohr's Theory of Hydrogen Atom 27 Nuclear structure 28 Radioactivity 29 Mass – Energy Equivalence : Nuclear Binding Energy 30 Nuclear Fission and Nuclear Fusion : Sources of energy **Term I Exam**
September	**ELECTROMAGNETIC WAVES** 13 Electromagnetic waves **ELECTRONIC DEVICES** **31** Semiconductor Electronics 32 Junction Diodes **33** Junction Transistors 34 Logic gates
October	**Model I Exam**
November	Revision
December	**Model II Exam**
January	**Pre board Exam**

PROJECTS

1. **Dependence of electric resistance on various factors.**
2. **Charging and discharging of capacitor through resistor**
3. **Types of diodes and its I -V characteristics**

CARMEL ACADEMY CHALAKUDY

Year Plan 2024-2025

Grade XII **Subject : Chemistry**

Month	Lesson numbers, name &Practical work	Term exam
March	L-2Solutions L-10 Haloalkanes and Haloarenes Practical work: Volumetric analysis	
April	L-3Electrochemistry L-11Alcohols, Phenols and Ethers Practical work: Volumetric analysis	
June	L-12Aldehydes, Ketones and Carboxylic Acids Practical work :Qualitative analysis	First Mid Term Project Submission
July	L-4Chemical Kinetics L- 8d -and f -Block Elements Practical work: Qualitative analysis	
August	L-13Organic Compounds containing Nitrogen Practical work: Qualitative analysis	Term 1
September	L-9Coordination Compounds Practical work: Organic salt analysis- Identification of functional groups i)Characteristic tests of carbohydrates andproteins	
October	L-14Biomolecules	Term 2

November	Revision	Practical exam
December	Revision	Model Exam
January	Revision	Pre board
February	Annual exam	

CARMEL ACADEMY CHALAKUDY

YEAR 2024-25

GRADE: ISC II

SUBJECT: BIOLOGY

MONTH	CHAPTER
March	• Sexual reproduction in flowering plants • Human reproduction • Reproductive health
April	• Human health and diseases • Microbes in Human Welfare.
June	• Ecosystem • Organism and population
July	• Evolution • Principles of inheritance and variation • Molecular basis of inheritance
August	Term I
September	• Biodiversity and conservation • Biotechnology - Principles and processes
October	• Biotechnology – Applications
November	Revision

PRACTICAL WORK

A. Taxonomy

B. Simple biochemical and physiological experiments

C. Slide preparations
D. Spotting

Project work 2023-24
(Any topic in Biology)

1. Human genome project
2. Genetic disorders
3. DNA Fingerprinting
4. Cancer
5. Drug addiction and community

CARMEL ACADEMY CMI ICSE SCHOOL

YEAR PLAN 2024-25

GRADE: ISC II **SUBJECT: MATHEMATICS**

Month	Chapter Numbers & Name
March	**Section A** 3.Matrices: Types and operations on Matrices 4.Determinants 5.Matrices:Adjoint and Inverse of a square matrix
April	**Section A** 14.Probability:Additionand Multiplication Theorems 15. Probability: Baye's theorem and theoretical probability distribution. 1.Relations and functions **Section C** 3.Linear programming
June	**Section C** 2.Linear Regression **Section A** 2. Inverse trigonometric Function 6.Continuity 7.Differentiability: Derivatives of Trigonometric, Inverse trigonometric, Composite, Logarithmic, Exponential and Implicit functions
July	**Section A** 8.Rolle's theorem, Mean value theorem and their applications 9.Applications of derivatives 10.Application of Maxima and Minima 11.Integrals: Indefinite Integrals 12.Definite integrals: properties of definite Integrals
August	13.Differntial Equations **Section C** 1.Application of calculus in commerce and economics **Term I Exam**

September	**Section B** 1.Vectors 2.Coordinate geometry in 3 dimensions 3.Straight lines 4.Planes 5.Application of integrals
October	**Term II Exam**
November	Revision
December	**Model Exam**
January	**Pre board Exam**

PROJECTS

Section A:

Explain the conditional probability, the theorem of total probability and the concept of Baye's theorem with suitable examples.

Section B:

Find the area bounded by a circle and a parabola

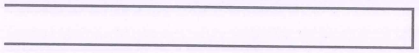
Section C:

Using any suitable data, find the optimum cost/profit in the manufacturing problem by formulating a linear programming problem.

CARMEL ACADEMY YEAR PLAN 2024-25		
COMPUTER SCIENCE (THEORY)		
STANDARD : XII		
MONTH	**Chapter No**	**CHAPTER**
March	1	BOOLEAN ALGEBRA
	13	DATA STRUCTURE
April	2	COMPUTER HARDWARE
	3	IMPLEMENTATION OF ALGORITHMS TO SOLVE PROBLEMS
June	12	INHERITANCE, INTERFACE AND POLYMORPHISM
	4	OBJECTS AND CLASSES
	10	CLASS AS USER DEFINED AND CONSTRUCTORS
July	8	ARRAYS
	11	RECURSION
	7	STRING MANIPULATIONS
August	5	DATA TYPE AND VARIABLES
	6	STATEMENTS AND SCOPE
	9	METHODS(FUNCTIONS)
September		REVISION
October	14	COMPUTATIONAL COMPLEXITY AND BIG O NOTATION
		MODEL1 EXAM
November		PRACTICAL EXAM
December		MODEL 2 EXAM
January		Preboard Exam

COMPUTER SCIENCE (PROJECT)

1. A project file of 25 programs



Gr. 12 Examination Schedule 2024-'25

Month	Name of the exam
June 18th to 25th	First Mid-Term Exam Out of 25 marks during evening class
August 12,13,14,16,17	Revision for first term exam
August 19th to 29th	First Terminal Examination Half portion
September 30th	Practical completion
October 15th	Theory completion
October 16th to 19, 21, 22	Revision for second term exam
October 23rd to 30th	Second Terminal Examination Half portion
November 1st to 20th	Practicals revision
November last week	Board Practical Exam November 22nd – Maths November 25th – IT & English (Morning), Biology (Afternoon) November 27th – Physics November 29th - Chemistry
December 11th to 18th	Model 1 Examination Full portion
January 13th to 20th	Pre Board Examination Full portion

Gr. 12 Project Submission Schedule 2024-'25

Subject	Topic	Date
Biology	Taxonomy	April 1st
	Temporary Slide preparation	April 26th
	Spotters	June 7th
	Biochemical experiments	July 26th
	Submission to The Principal	August 6th
English I & English II	Project submission	April 22nd
	Submission to The Principal	June 11th
Maths	Project submission	April 24th
	Submission to The Principal	June 11th
Computer Science	10 Programs	April 26th
	10 Programs	September 3rd
	Project submission	September 6th
Physics & Chemistry	Project submission	June 28th
	Submission to The principal	July 30th
	Record submission	Oct 1st
	Record submission to the Principal	Oct 15th

CARMEL ACADEMY CHALAKUDY

Proposed Exam Dates 2024

KG to Gr. 9 & Gr. 11

Exam	Section	Dates
1st Term Exam 2nd Term Exam 3rd Term Exam	KG 1	4th to 11th September 11th to 18th December 14th to 21st March
1st Term Exam 2nd Term Exam 3rd Term Exam	KG 2	4th to 11th September 11th to 18th December 14th to 21st March
1st Mid Term Exam 1st Term Exam 2nd Mid Term Exam 2nd Term Exam 3rd Term Exam	Gr. 1 to 9 &11	15th July onwards 2nd September onwards 21st October onwards 4th December onwards 13th March onwards