mathongo

Batch 1

BITSAT 2027

Crash Course

Physics, Chemistry, Mathematics, English & Logical Reasoning

Course Schedule

BITSAT Test Series included

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Course at a Glance

Complete BITSAT preparation in one batch - PCM lectures, English & Logical Reasoning, LIVE BITSAT Exclusive sessions and the BITSAT Test Series.

Subject	Chapters / Topics	BITSAT Exclusive Topics
Physics	26	20
Chemistry	26	38
Mathematics	24	33
English	10	-
Logical Reasoning	11	-
LIVE BITSAT Exclusive Sessions	**9**	

PCM Course

Entire Physics, Chemistry and Mathematics in a crisp way - quick concepts plus lectures on how to attack BITSAT questions, with special mentoring sessions on managing BITSAT alongside everything else.

English & Logical Reasoning

Dedicated lectures and DPPs for both sections - all lectures are already available.

BITSAT Test Series

Chapter tests, part tests and full tests for all five BITSAT subjects.

All **BITSAT Exclusive PCM** lectures and **English & Logical Reasoning** lectures are **already available**.
The schedule is **tentative** - the final schedule will be shared after the JEE Main January attempt.

Date	Day	Physics	Chemistry	Mathematics	LIVE Session
9 Feb	Tuesday	Orientation Session			
10 Feb	Wednesday	Electrostatics	General Organic Chemistry	Functions	-
12 Feb	Friday	Capacitance	Hydrocarbons	Limits, Continuity & Differentiability	-
14 Feb	Sunday	Current Electricity	Haloalkanes and Haloarenes	Application of Derivatives	BITSAT Exclusive LIVE Session
16 Feb	Tuesday	Magnetic Effects of Current	Alcohols, Phenols and Ethers	Matrices & Determinants	-
18 Feb	Thursday	Electromagnetic Induction	Aldehydes and Ketones	-	-
19 Feb	Friday	-	-	Vector Algebra	-
20 Feb	Saturday	Alternating Current	Carboxylic Acid Derivatives & Amines	-	BITSAT Exclusive LIVE Session
21 Feb	Sunday	-	-	Vector 3D	-
22 Feb	Monday	Electromagnetic Waves	Biomolecules & Polymers	-	-
23 Feb	Tuesday	Ray Optics	-	Indefinite Integration	-
24 Feb	Wednesday	-	Chemistry in Everyday Life & Environmental Chemistry	-	-
25 Feb	Thursday	Wave Optics	-	Definite Integration	BITSAT Exclusive LIVE Session

Date	Day	Physics	Chemistry	Mathematics	LIVE Session
26 Feb	Friday	-	Mole Concept & Redox Reactions	-	-
27 Feb	Saturday	Dual Nature of Matter & Atomic Physics	-	-	-
28 Feb	Sunday	-	Structure of Atom	Areas	-
1 Mar	Monday	Nuclear Physics	-	-	BITSAT Exclusive LIVE Session
2 Mar	Tuesday	-	States of Matter	Differential Equations	-
3 Mar	Wednesday	Semiconductors	-	-	-
4 Mar	Thursday	-	Thermodynamics (C)	Quadratic Equations	-
5 Mar	Friday	Communication System	-	-	-
6 Mar	Saturday	-	Chemical Equilibrium	Complex Numbers	BITSAT Exclusive LIVE Session
7 Mar	Sunday	Mathematics in Physics & Units and Dimensions	Ionic Equilibrium	-	-
8 Mar	Monday	-	-	Sequences and Series	-
9 Mar	Tuesday	Motion in One Dimension & Motion in Two Dimensions	Solid State	-	-
11 Mar	Thursday	Laws of Motion	Solutions	Binomial Theorem	BITSAT Exclusive LIVE Session
13 Mar	Saturday	Work Power Energy	Electrochemistry	Permutations & Combinations	-

Date	Day	Physics	Chemistry	Mathematics	LIVE Session
15 Mar	Monday	Centre of Mass, Momentum and Collision	Chemical Kinetics	Probability	-
16 Mar	Tuesday	-	-	-	BITSAT Exclusive LIVE Session
17 Mar	Wednesday	Rotational Motion	Surface Chemistry	Straight Lines	-
19 Mar	Friday	Gravitation	Metallurgy	Circles	-
21 Mar	Sunday	Mechanical Properties of Solids	Periodic Properties & Chemical Bonding	Parabola	-
22 Mar	Monday	-	-	-	BITSAT Exclusive LIVE Session
23 Mar	Tuesday	Mechanical Properties of Fluids	Hydrogen & S Block Elements	Ellipse & Hyperbola	-
25 Mar	Thursday	Thermal Properties of Matter	p Block Elements	Trigonometry	-
27 Mar	Saturday	Kinetic Theory of Gases & Thermodynamics	d and f Block Elements	Inverse Trigonometry & Solutions of Triangles	-
28 Mar	Sunday	-	-	-	BITSAT Exclusive LIVE Session
29 Mar	Monday	Oscillations	Coordination Compounds	Statistics & Mathematical Reasoning	-
31 Mar	Wednesday	Waves and Sound	Practical Chemistry (Qualitative Analysis)	Linear Programming	-

MathonGo reserves the right to change the schedule. Any change will be notified to registered students over email.

All lectures available

BITSAT Exclusive PCM

The course covers the complete BITSAT syllabus. On top of that, a dedicated BITSAT Exclusive section covers topics removed from the JEE Main syllabus but still asked in BITSAT. All lectures for these topics are **already available**.

Physics 20 topics

Chapter	BITSAT Exclusive Topics
Mechanical Properties of Fluids	Reynold's Number
Thermal Properties of Matter	Newton's law of cooling
Thermodynamics	Carnot Engine & Refrigerator
Oscillations	Resonance and linked concepts, Damped Oscillations
Waves and Sound	Doppler's Effect
Current Electricity	Potentiometer, Color coding of resistors
Magnetic Properties of Matter	BITSAT Exclusive Concepts
Magnetic Effects of Current	Cyclotron
Alternating Current	Quality Factor
Ray Optics	Microscope and Telescope, Resolving Power
Nuclear Physics	Radioactivity, Nuclear Reactions
Semiconductors	All JEE Mains Concepts, Junction Transistors
Dual Nature of Matter	Davisson and Germer Experiment
Communication System	Chapter Revision Part 1, Chapter Revision Part 2

Mathematics 33 topics

Chapter	BITSAT Exclusive Topics
Complex Numbers	Triangle Inequality
Sequences and Series	Summation of Series and Vn Method, Arithmetic Geometric Progression
Binomial Theorem	Properties of Binomial Coefficients and Sum of Series, Sum of Series Involving Product
Circle	Equation of Circle and Chord, Orthogonal Circles and Family of Circles, Tangents and Normals, Pair of Tangents and Common Tangents
Parabola	Equation of Parabola and Focal Chord, Tangent to Parabola, Normal to Parabola, Common Tangent, Chord with given mid point and Reflection property
Ellipse & Hyperbola	Equation of Ellipse and Hyperbola and Auxiliary circle, Tangents, Chord of Contact and Properties of Tangents, Normal and Reflection Property, Common tangent and Misc Concepts
Straight Lines	Family of lines and Angle Bisector
Pair of Lines	Equation of pair of Lines, Concept of Homogenization
Determinants	System of Linear Equations, Properties of Determinants
Application of Derivatives	Tangent Normal, Mean Value Theorem
Definite Integration	Definite as Limit of Sum
Differential Equationss	Formation of Differential Equations
Vector Algebra	Scalar Triple Product, Vector Triple Product
Three Dimensional Geometry	Line and Plane, Plane in Space
Probability	Bernoulli Trial and Binomial Distribution
Mathematical Reasoning	Complete Revision
Heights and Distances	Complete Revision
Linear Programming	Complete Revision

Chemistry 38 topics

Chapter	BITSAT Exclusive Topics
Some Basic Concepts of Chemistry	Significant Figures
States of Matter	Gas Laws, Ideal gas equation and Graham's Law; Kinetic Theory of Gases; Real and Ideal Gas Equation; Liquefaction of gases and critical constants; Problem Practice Session
Hydrogen	Preparation and Properties of H2 and H2O2; Preparation and Properties of H2O; Hard and soft water; Hydrides; Problem Practice
s Block Elements	Physical Properties of S Block Metals; Chemical Properties of S Block Metals; Compounds of S Block; Problem Practice
p Block Elements	Group 13; Group 14; Group 15; Group 16; Group 17; Group 18
Environmental Chemistry	Complete Chapter Revision
Solid State	Classification of Solids & Crystal Systems; Unit Cells & Their Calculations; Close packing, HCP & CCP, Voids.; Crystal Structures & defects.; Problem Practice
Surface Chemistry	Adsorption; Catalysis; Colloids; Problem Practice
General Principles and Processes of Isolation of Metals	Ores & Concentration of Ore; Extraction of Metal from Concentrated Ore; Refining of Metals & Metallurgy of Fe, Cu, Ag, Al, Sn and Pb; Problem Practice
Polymers	Complete Revision
Chemistry in Everyday Life	Chapter Revision Part 1; Chapter Revision Part 2

All lectures available

English & Logical Reasoning

Topics covered in both sections. All lectures are **already available**.

English

#	Topic
1	Syntax and Tense
2	Pronoun, Preposition and Articles
3	Voice
4	Synonyms and Antonyms
5	Sentence Improvement
6	Sentence Arrangement
7	Idioms and Phrases
8	One Word Vocabulary
9	Cloze Test and Grammar
10	Reading Comprehension

Logical Reasoning

#	Topic
1	Blood Relations
2	Calendar
3	Non Verbal Analogy and Rule Detection
4	Direction Sensing and Seating Arrangement
5	Series Completion
6	Pattern Perception and Counting of Figure
7	Figure Formation, Analysis and Figure Matrix
8	Paper Folding, Cutting & Cubes Dices
9	Venn Diagram and Chart Logic
10	Logical Deduction and Coding Decoding
11	Classification and Verbal Analogy

Quizrr

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Batch 1 · 2027

Most Relevant BITSAT 2027 Test Series

Complete Schedule & Syllabus Breakdown

326	286	6	20	14
Total Tests	Chapterwise	Part Tests	Full Tests	PYQs (Memory Based)

Test Series Overview

Complete test pack for BITSAT 2027 aspirants · Physics, Chemistry, Mathematics, English & Logical Reasoning

Test Category	Count	Availability
Chapterwise Tests (PCM, English & LR)	286	From 15 Nov 2026
Part Syllabus Tests (with Bonus Qs)	6	As per schedule · 7–22 Feb 2027
Full Syllabus Tests (with Bonus Qs)	20	As per schedule · From 22 Feb 2027
Previous Years & Study Material		
BITSAT Previous Year Papers 2026–2013 (Memory Based, with Bonus Qs)	14	From 13 Dec 2026
Special Notes for English & Logical Reasoning (PDF · not counted as tests)	20 PDFs	From 6 Dec 2026
Total Tests in the Test Series	**326**	

All tests are designed based on the new pattern and latest BITSAT trends.

Chapterwise Tests at a Glance

286 chapter tests across all five BITSAT subjects

Subject	Chapters	Questions Per Test	Tests
Physics	31	20	62
Chemistry	32	20	64
Mathematics	30	20	60
English	15	10	44
Logical Reasoning	22	10	56
Grand Total	130		**286**

What's Included

Every test comes packed with resources to help you improve

Text Solutions
Written solutions for every test — Chapterwise, Part, Full and Previous Year Papers.

Bonus Questions
Each Part & Full Syllabus Test and every BITSAT PYQ mock has bonus questions, just like the actual BITSAT paper.

14 Years of BITSAT Papers
Memory-based BITSAT papers from 2026 to 2013, to attempt as full mocks.

English & LR Notes
20 special PDF notes to build the English and Logical Reasoning sections.

Tests are uploaded at 9 AM (IST) on the mentioned dates. Once uploaded, you can take a test anytime till the validity of the test series — valid till BITSAT 2027 (all attempts), whenever it finally occurs. Quizrr reserves the right to change the schedule; any change will be notified to registered students.

Chapterwise Tests — Physics, Chemistry & Maths

186 tests · 2 tests per chapter · 20 questions per test · Available from 15 Nov 2026

Physics (31 chapters)

Chapter	#
Mathematics in Physics	2
Units and Dimensions	2
Motion In One Dimension	2
Motion In Two Dimensions	2
Laws of Motion	2
Work Power Energy	2
Center of Mass Momentum and Collision	2
Rotational Motion	2
Gravitation	2
Mechanical Properties of Solids	2
Mechanical Properties of Fluids	2
Thermal Properties of Matter	2
Thermodynamics	2
Kinetic Theory of Gases	2
Oscillations	2
Waves and Sound	2
Electrostatics	2
Capacitance	2
Current Electricity	2
Magnetic Properties of Matter	2
Magnetic Effects of Current	2
Electromagnetic Induction	2
Alternating Current	2
Electromagnetic Waves	2
Ray Optics	2
Wave Optics	2
Dual Nature of Matter	2
Atomic Physics	2
Nuclear Physics	2
Semiconductors	2
Communication System	2
Total	**62**

Chemistry (32 chapters)

Chapter	#
Some Basic Concepts of Chemistry	2
Structure of Atom	2
Classification of Elements and Periodicity in Properties	2
Chemical Bonding and Molecular Structure	2
States of Matter	2
Thermodynamics (C)	2
Chemical Equilibrium	2
Ionic Equilibrium	2
Redox Reactions	2
Hydrogen	2
s Block Elements	2
p Block Elements (Group 13 & 14)	2
General Organic Chemistry	2
Hydrocarbons	2
Environmental Chemistry	2
Solid State	2
Solutions	2
Electrochemistry	2
Chemical Kinetics	2
Surface Chemistry	2
General Principles and Processes of Isolation of Metals	2
p Block Elements (Group 15, 16, 17 & 18)	2
d and f Block Elements	2
Coordination Compounds	2
Haloalkanes and Haloarenes	2
Alcohols Phenols and Ethers	2
Aldehydes and Ketones	2
Carboxylic Acid Derivatives	2
Amines	2
Biomolecules	2
Polymers	2
Chemistry in Everyday Life	2
Total	**64**

Maths (30 chapters)

Chapter	#
Basic of Mathematics	2
Quadratic Equation	2
Complex Number	2
Permutation Combination	2
Sequences and Series	2
Binomial Theorem	2
Trigonometry and Heights & Distances	2
Straight Lines	2
Circle	2
Parabola	2
Ellipse	2
Hyperbola	2
Limits	2
Mathematical Reasoning	2
Statistics	2
Sets and Relations	2
Matrices and Determinants	2
Inverse Trigonometric Functions	2
Functions	2
Continuity and Differentiability	2
Differentiation	2
Application of Derivatives	2
Indefinite Integration	2
Definite Integration	2
Area Under Curves	2
Differential Equations	2
Vector Algebra	2
Three Dimensional Geometry	2
Probability	2
Linear Programming	2
Total	**60**

Every chapter has 2 Chapter Tests of 20 questions each.

Aa Chapterwise Tests — English & Logical Reasoning

100 tests · 10 questions per test · Available from 15 Nov 2026

Aa English (15 chapters)

Chapter	#
Synonyms and Antonyms	4
Idioms & Phrases	4
Spelling & Word Formation	3
Homophones & Analogy	3
Fill in the Blanks	3
Grammar Basics	3
Sentence Structure	3
Error Identification & Correction	3
Advanced Grammar	3
Rearrangement	3
One Word & Odd Word	3
Collocations	2
Paragraph Organization	2
Comprehension Ability	3
Connotations & Denotations	2
Total	**44**

Logical Reasoning (22 chapters)

Chapter	#
Blood Relations	2
Calendar	2
Classification	4
Non Verbal Analogy	2
Coding Decoding	2
Pattern Perception	2
Puzzles	3
Counting of Figure	2
Cube and Dice	2
Direction Sensing	2
Venn Diagram	2
Logical Deduction	3
Paper Folding and Cutting	3
Verbal Analogy	4
Figure Matrix	2
Rule Detection	2
Figure Formation and Analysis	2
Series Completion	4
Alphabetical Sequences	3
Chart Logic	4
Seating Arrangement	2
Arithmetic Reasoning	2
Total	**56**

PDF **Special Notes:** 20 PDF notes for English and Logical Reasoning will be available from 6 Dec 2026 — use them alongside these chapter tests.

Part Syllabus Test Schedule

6 Part Tests · Covers the full BITSAT syllabus in parts · Every test includes complete English & LR

Test	Date	Physics	Chemistry	Maths	English & LR
PT 1	7 Feb '27	Electrostatics · Capacitance · Current Electricity · Magnetic Properties of Matter · Magnetic Effects of Current	General Organic Chemistry · Hydrocarbons · Haloalkanes and Haloarenes · Environmental Chemistry	Functions · Limits · Continuity and Differentiability · Application of Derivatives	Complete English & LR
PT 2	10 Feb '27	Electromagnetic Induction · Alternating Current · Ray Optics · Wave Optics · Mathematics in Physics · Units and Dimensions	Alcohols Phenols and Ethers · Aldehydes and Ketones · Carboxylic Acid Derivatives · Amines · Biomolecules · Polymers	Matrices · Determinants · Differentiation · Vector Algebra · Vector 3D	Complete English & LR
PT 3	13 Feb '27	Motion In One Dimension · Motion In Two Dimensions · Laws of Motion · Work Power Energy · Center of Mass Momentum and Collision	Some Basic Concepts of Chemistry · Structure of Atom · States of Matter · Thermodynamics (C) · Chemical Equilibrium · Ionic Equilibrium · Redox Reactions	Indefinite Integration · Definite Integration · Area Under Curves · Differential Equations	Complete English & LR
PT 4	16 Feb '27	Gravitation · Rotational Motion · Mechanical Properties of Solids · Mechanical Properties of Fluids · Waves and Sound	Classification of Elements and Periodicity in Properties · Chemical Bonding and Molecular Structure · p Block Elements (Group 13 & 14) · p Block Elements (Group 15, 16, 17 & 18) · Hydrogen · s Block Elements	Quadratic Equation · Complex Number · Sequences and Series · Binomial Theorem · Permutation Combination	Complete English & LR
PT 5	19 Feb '27	Thermal Properties of Matter · Thermodynamics · Kinetic Theory of Gases · Oscillations	Solid State · Solutions · Electrochemistry · Chemical Kinetics · Surface Chemistry	Probability · Straight Lines · Circle · Conic Section (Parabola Ellipse Hyperbola)	Complete English & LR
PT 6	22 Feb '27	Dual Nature of Matter · Atomic Physics · Nuclear Physics · Semiconductors · Communication System · Electromagnetic Waves	General Principles and Processes of Isolation of Metals · p Block Elements (Group 13 & 14) · p Block Elements (Group 15, 16, 17 & 18) · d and f Block Elements · Coordination Compounds · Chemistry in Everyday Life	Trigonometry & Inverse Trigonometry · Solution of Triangles · Statistics · Mathematical Reasoning · Sets and Relations · Linear Programming	Complete English & LR

Focus: Part Tests help you revise the syllabus in blocks before the Full Tests begin on 22 Feb 2027. Each test has bonus questions, just like the actual BITSAT paper.

Tests are uploaded at 9 AM (IST) on the mentioned dates. Once uploaded, you can take them anytime till the validity of the test series — valid till BITSAT 2027 (all attempts).

Full Syllabus Test Schedule

20 Full Syllabus Tests · with Bonus Qs, just like the actual BITSAT paper · Take anytime after upload

All tests are designed based on the new pattern and latest BITSAT trends.

For BITSAT Attempt 1 (15 Tests)

#	Test	Syllabus	Bonus Qs	Upload Date
1	Full Test 1	BITSAT Full Syllabus	Included	22 Feb '27
2	Full Test 2	BITSAT Full Syllabus	Included	25 Feb '27
3	Full Test 3	BITSAT Full Syllabus	Included	28 Feb '27
4	Full Test 4	BITSAT Full Syllabus	Included	3 Mar '27
5	Full Test 5	BITSAT Full Syllabus	Included	6 Mar '27
6	Full Test 6	BITSAT Full Syllabus	Included	9 Mar '27
7	Full Test 7	BITSAT Full Syllabus	Included	12 Mar '27
8	Full Test 8	BITSAT Full Syllabus	Included	15 Mar '27
9	Full Test 9	BITSAT Full Syllabus	Included	18 Mar '27
10	Full Test 10	BITSAT Full Syllabus	Included	21 Mar '27
11	Full Test 11	BITSAT Full Syllabus	Included	24 Mar '27
12	Full Test 12	BITSAT Full Syllabus	Included	27 Mar '27
13	Full Test 13	BITSAT Full Syllabus	Included	30 Mar '27
14	Full Test 14	BITSAT Full Syllabus	Included	2 Apr '27
15	Full Test 15	BITSAT Full Syllabus	Included	5 Apr '27

For BITSAT Attempt 2 (5 Tests) · Uploaded after BITSAT Attempt 1

#	Test	Syllabus	Bonus Qs	Upload Date
16	Full Test 16	BITSAT Full Syllabus	Included	After BITSAT Attempt 1
17	Full Test 17	BITSAT Full Syllabus	Included	After BITSAT Attempt 1
18	Full Test 18	BITSAT Full Syllabus	Included	After BITSAT Attempt 1
19	Full Test 19	BITSAT Full Syllabus	Included	After BITSAT Attempt 1
20	Full Test 20	BITSAT Full Syllabus	Included	After BITSAT Attempt 1

Quizrr reserves the right to change the schedule; any change will be notified to registered students. Dates shown are upload dates — tests go live at 9 AM (IST) and can be taken anytime till BITSAT 2027 (all attempts).

BITSAT Previous Year Papers as Mocks

14 memory-based BITSAT papers (2026–2013) · with Bonus Qs, just like the actual BITSAT paper · Available from 13 Dec 2026

#	Paper	Format	Bonus Qs
1	BITSAT 2026 Paper	Memory Based · Full Mock	Included
2	BITSAT 2025 Paper	Memory Based · Full Mock	Included
3	BITSAT 2024 Paper	Memory Based · Full Mock	Included
4	BITSAT 2023 Paper	Memory Based · Full Mock	Included
5	BITSAT 2022 Paper	Memory Based · Full Mock	Included
6	BITSAT 2021 Paper	Memory Based · Full Mock	Included
7	BITSAT 2020 Paper	Memory Based · Full Mock	Included
8	BITSAT 2019 Paper	Memory Based · Full Mock	Included
9	BITSAT 2018 Paper	Memory Based · Full Mock	Included
10	BITSAT 2017 Paper	Memory Based · Full Mock	Included
11	BITSAT 2016 Paper	Memory Based · Full Mock	Included
12	BITSAT 2015 Paper	Memory Based · Full Mock	Included
13	BITSAT 2014 Paper	Memory Based · Full Mock	Included
14	BITSAT 2013 Paper	Memory Based · Full Mock	Included

Bonus Questions: Every BITSAT PYQ mock includes bonus questions, just like the actual BITSAT paper — practise the real exam experience.

All 14 papers are released together on 13 Dec 2026. Once released, each paper can be attempted anytime till BITSAT 2027 (all attempts).