



آغا خان یونیورسٹی ایگزامینیشن بورڈ
AGA KHAN UNIVERSITY EXAMINATION BOARD

AKU-EB & KTN PARTNERSHIP: LIVE BROADCASTS END COMPLETE SET NOW AVAILABLE ON DVD

Pioneering a unique instructional method in Pakistan, AKU-EB had entered into a partnership with Kawish Television Network (KTN) in December 2009 to provide learning support broadcasts in remote areas where quality education was less readily accessible.

Beginning in April 2010, the live broadcasts of *Laat - Endeavour for Change* offered an innovative teaching and learning experience in five SSC subjects: English, Mathematics, Physics, Chemistry and Biology using a Promethean ActivBoard¹. The ActivBoard was installed both at AKU-EB and KTN's studio making the broadcasts even more interesting for the young students. After successfully completing two years of SSC tutoring, these broadcasts ended in March 2012. To extend the benefit even further, we are offering all programmes on DVD.

The instructional support of Laat broadcasts was grounded in the National Curriculum and was of value to all those involved in the teaching and learning of these subjects at the secondary school level. The broadcasts were intended to enhance the teaching of certain key syllabus areas and topics while encouraging critical thinking. This method created interest and clarity around the topics being taught.

You can now order a complete set of DVDs through AKU-EB's website by simply using the attached form.

¹The ActivBoard uses what is known as an electromagnetic surface, where the pen is sensed by a magnetic mesh of wires embedded in the surface of the board. Compared to other types of IWB technologies this electromagnetic type of board provides for more accurate details and more precise control of the cursor on the screen.

Note: Please check mark (✓) the respective box/es in front of the selected items and keep “Pages” own record. AKU-EB only requires the “**completed form on Page 7**” to process your request.

Contents of each DVD are as follows:

ENGLISH

Secondary School Certificate (SSC)	
SERIES I <input type="checkbox"/>	SERIES IV <input type="checkbox"/>
<ul style="list-style-type: none"> • Subject-Verb Agreement • Writing Skills • Transitional Words • Descriptive Writing • Narrative Writing • Letter Writing 	<ul style="list-style-type: none"> • Formal Letters • Writing Book Reviews • Persuasive Essays • Expressive Essays • Reflective Essays • Analytical Essays • Examples of Reflective and Analytical Essays • Writing Reports
SERIES II <input type="checkbox"/>	SERIES V <input type="checkbox"/>
<ul style="list-style-type: none"> • Letter Writing • Writing Emails • Writing Dialogues • Summary Writing • <u>Reading Techniques</u> • Skimming and Scanning • Deducing Meanings From Text - Inference • Reading and Answering Questions 	<ul style="list-style-type: none"> • Writing Reports • Idioms • Phrasal Verbs • Paraphrasing • Reading Comprehension: Facts and Opinion • Reading Skills: Recognising Persuasive Writing • Reading Skills: Evaluating Persuasive Writing • Recognising Reflective Writing • Recognising Analytical Writing • Critical Thinking • Cause and Effect
SERIES III <input type="checkbox"/>	
<ul style="list-style-type: none"> • Reading Comprehension – Understanding Questions • Question Types and Responses • Reading Exercises – Practice • Reading and Understanding – Practice • Capitalization and Punctuation • Punctuation • Tenses • Articles, Prepositions and Noun Clauses • Gerunds and Infinitives and Sentence Structure • Vocabulary Building • Writing Skills • More Writing Skills 	

BIOLOGY

SSC-I	SSC-II
SERIES I (Volume 1 and 2) <input type="checkbox"/>	SERIES I (Volume 1 and 2) <input type="checkbox"/>
<ul style="list-style-type: none"> • Introduction to Biology • The Cell • Cell Division • Levels of Organization • Biodiversity 	<ul style="list-style-type: none"> • Gaseous Exchange • Gaseous Exchange in Man • Homeostasis – Urinary System in Man • Disorders of the Human Excretory System • Coordination • Receptors of Man • The Human Nervous System
SERIES II (Volume 3 and 4) <input type="checkbox"/>	SERIES II (Volume 3 and 4) <input type="checkbox"/>
<ul style="list-style-type: none"> • Biodiversity • Algae • Bryophytes • Tracheophytes • Kingdom Animalia • Chordates/Vertebrates • Practical - Examination and Handling of a Microscope 	<ul style="list-style-type: none"> • Endocrine System • Coordination: Nervous Disorders (Paralysis and Epilepsy) • Human Skeleton (Axial Skeleton and Appendicular Skeleton) • Support and Movement • Support and Movement (Ball and Socket Joint) • Support and Movement: Muscles and Movement Disorders of the Skeletal System • Reproduction • Reproduction: Sexual Reproduction in Plants (Pollination and Fertilization) • Reproduction: Germination of Seeds • Practical – Examination of the Structure of the Kidney
SERIES III (Volume 5 and 6) <input type="checkbox"/>	
<ul style="list-style-type: none"> • Practical – Microscopic Preparation of Plant and Animal Cell • Enzymes • Nutrition • Nutrition - Photosynthesis and Respiration • Nutrition in Man • The Digestive System in Man 	

CHEMISTRY

SSC-I	SSC-II
SERIES I (Volume 1 and 2) <input type="checkbox"/>	SERIES I (Volume 1 and 2) <input type="checkbox"/>
<ul style="list-style-type: none"> • Mole, Avogadro's Number & Calculations Based on Balanced Chemical Equation • Fundamental Particles of an Atom • Radioactivity & Models of the Atom • Electronic Configuration and Isotopes • Development of the Periodic Table • The Modern Periodic Table • Periodic Properties of Atoms • Formation of Chemical Bond • Ionic or Electrovalent Bond • Covalent Bond • Coordinate Covalent Bond 	<ul style="list-style-type: none"> • Reversible Reactions, Dynamic Equilibrium and Law of Mass Action • Law of Mass Action • Arrhenius and Bronsted-Lowry Acid-Base Concepts • Lewis Acid-Base Concept • Applications of Acids and pH Scale • Acid-Base Titration • Organic Compounds – A General Introduction • Classification of Organic Compounds • Hydrocarbons – Alkanes and Alkyl Radicals • Homologous Series and Isomerism
SERIES II (Volume 3 and 4) <input type="checkbox"/>	SERIES II (Volume 3 and 4) <input type="checkbox"/>
<ul style="list-style-type: none"> • Metallic Bond • Bond Polarity and Intermolecular Forces • The Gaseous State • Liquid and Solid States • Solutions and their Types • Solutions, Suspensions and Colloids • Unsaturated, Saturated and Supersaturated Solutions • Concentration of Solutions • Solubility and its Factors • Crystallization • Practical - Separation of Mixture of Iron Filings, Sand and Alum by Physical Method • Practical - Electroplating of Copper Metal on an Iron Strip Using Copper Sulphate as an Electrolyte. 	<ul style="list-style-type: none"> • Organic Functional Group • Hydrocarbons (Structural Formula and Uses) • Systematic Methods of Naming Open Chain Hydrocarbons (Part 1) • Systematic Methods of Naming Open Chain Hydrocarbons (Part 2) • Chemistry of Alkenes • Chemistry of Alkynes • Chemistry of Methane and Ethyne • Chemistry of Carbohydrates • Chemistry of Proteins and Lipids • Atmosphere and its Layer • Biologically Important Minerals: Sources and Uses of Biopolymers
SERIES III (Volume 5 and 6) <input type="checkbox"/>	
<ul style="list-style-type: none"> • Practical - Determination of Melting Point of Candle Wax • Oxidation and Reduction Reactions • Oxidation States or Oxidation Numbers • Oxidizing and Reducing Agents • Electrochemical Cells • Faraday's Laws of Electrolysis • Electrochemical Industries in Pakistan • Corrosion and its Preventive Measures • Differentiation between Metals and Non-Metals 	

PHYSICS

SSC-I	SSC-II
SERIES I (Volume 1 and 2) <input type="checkbox"/>	SERIES I (Volume 1 and 2) <input type="checkbox"/>
<ul style="list-style-type: none"> • Measurements • Relationship between Different Physical Quantities, Constant of Proportionality • Rest and Motion • Kinematics • Acceleration and Equation of Motion • Third Equation of Motion and Acceleration Due to Gravity (g) • Problems Related to Freely Falling Bodies • Newton’s Laws of Motion • Tension in a String and Motion of Bodies Connected by a String • Scalar and Vector Quantities and Resolution of Vectors • Equilibrium and the Conditions of Equilibrium • Equilibrium, Centre of Gravity and States of Equilibrium 	<ul style="list-style-type: none"> • Simple Harmonic Motion (SHM) and its Conditions • Waves and Type of Waves • Sound and its Characteristics • Mirrors and Formation of Images • Formation of Images and Mirror Formula • Refraction of Light and Total Internal Reflection • Refraction of Light and Lenses • Simple Microscope and Magnifying Power • Ray Diagram of an Eye, its Defects and Corrections through Lenses • Numerical Related to Wave Motion and Sound
SERIES II (Volume 3 and 4) <input type="checkbox"/>	SERIES II (Volume 3 and 4) <input type="checkbox"/>
<ul style="list-style-type: none"> • Mass of Earth and Variation of “g” • Work, Energy and Kinds of Mechanical Energy • Numerical on Kinetic Energy (K.E) and Potential Energy (P.E) • Renewable and Non-Renewable Energy Sources • Simple Machines • Pascal’s Law and Archimedes Principle • Numerical of Pascal’s Law and Archimedes Principle • Practical - To Find the Weight of an Unknown Object by Using Principle of Moment • Practical - To Find the Density of a Body Heavier than Water by Archimedes Principle 	<ul style="list-style-type: none"> • Numericals on Sound, Mirrors and Lenses • Sound, Propagation of Sound and Speed of Sound • Coulomb’s Law • Static Electricity and its Precautionary Measures • Capacitance and Capacitor • Ohm’s Law and its Limitation • Resistance and Combination of Resistances • Sketch and Interpretation of the I-V Characteristics Graph for a Metallic Conductor, a Filament Lamp and Thermistor • Energy Dissipation and Joule’s Law • Force on a Current Carrying Conductor Placed in a Magnetic Field • Torque on Current Carrying Coil • Turning Effect on a Coil to the Action of DC Motor
SERIES III (Volume 5 and 6) <input type="checkbox"/>	
<ul style="list-style-type: none"> • Evaporation, Boiling Point and Transfer of Heat • Factors Affecting on and Application of Heat Transfers • Momentum and Law of Conservation of Momentum • Torque, Couple and Principle of Moment • Earth and Space • Stress, Strain and Young's Modulus • Practical - To Find the Value of “g” by Free Fall Method • Practical - To Draw a Graph between Temperature and Time When Ice is Converted into Water and then to Steam by Slow Heating 	

MATHEMATICS

SSC-I		SSC-II	
SERIES I (Volume 1 and 2) <input type="checkbox"/>		SERIES I (Volume 1 and 2) <input type="checkbox"/>	
<ul style="list-style-type: none"> • Sets • Cartesian Product and Binary Relations • Real Numbers • Properties of Real Numbers and Laws of Indices • Application of the Laws of Indices, Radicals and Radicands • Surds • Rationalizing the Denominator and Evaluation of Expressions • Multiplication, Division and Evaluation of Algebraic Expressions 		<ul style="list-style-type: none"> • Algebraic Sentences – Linear Equation in One Variable • Algebraic Sentences – Equations Involving Absolute Value • Solution of Simultaneous Linear Equations Using Graphical Method • Quadratic Equations • Solution of Quadratic Equations • Inequations or Inequalities and their Solution • Elimination • Ratio and Proportion • Direct and Inverse Variations 	
SERIES II (Volume 3 and 4) <input type="checkbox"/>		SERIES II (Volume 3 and 4) <input type="checkbox"/>	
<ul style="list-style-type: none"> • Remainder Theorem and Algebraic Formulae • Algebraic Formulae and their Applications • Factorization of Algebraic Expressions • Highest Common Factor (HCF) • Least Common Multiple (LCM) of Polynomials • Simplification of Algebraic Fractions • Square Root of Algebraic Expressions • Matrices 		<ul style="list-style-type: none"> • Combined Variation • K - Method • Theorem on Proportion • Word Problems on Variations • Information Handling • Classification of Data • Graphs and Charts • Measure of Central Tendency • Measure of Central Tendency for Grouped Data • Frequency Distribution • Practical Geometry 	
SERIES III (Volume 5 and 6) <input type="checkbox"/>			
<ul style="list-style-type: none"> • Addition and Subtraction of Matrices • Multiplication of Matrices • Multiplicative Inverse of Matrices • Solutions of Simultaneous Linear Equations Using Matrices • Practical Geometry • Logarithms • Laws of Logarithms 			



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**ORDER FORM FOR LEARNING SUPPORT DVDs
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Biology			
Chemistry			
Physics			
Mathematics			

Important Note:

- All orders will be dispatched within 5 working days of the receipt of the order form.

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- In addition to the price of DVDs, each order will incur postage charges of Rs. 300 only.
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