

B.Sc. (Economics)

Semester	Subject Code	Subject
Sem-I	B.Sc(Economics)-101	Mathematics Paper–I: Algebra
Sem-I	B.Sc(Economics)-102	Mathematics Paper–II: Calculus And Trigonometry
Sem-I	B.Sc(Economics)-103	Quantitative Techniques–I
Sem-I	B.Sc(Economics)-104	Microeconomics
Sem-I	B.Sc(Economics)-105	Computer Fundamental & Pc Software (Theory)
Sem-I	B.Sc(Economics)-106	Computer Science (Practical)
Sem-I	B.Sc(Economics)-107	General Punjabi/ Basic Punjabi
Sem-I	B.Sc(Economics)-108	Communication Skills In English
Sem-III	B.Sc(Economics)-301	Mathematics Paper–I: Analysis
Sem-III	B.Sc(Economics)-302	Mathematics Paper–II: Analytical Geometry
Sem-III	B.Sc(Economics)-303	Quantitative Techniques–III
Sem-III	B.Sc(Economics)-304	Macro Economics
Sem-III	B.Sc(Economics)-305	Computer Science Computer Oriented Numerical And Statistical Methods (Theory)
Sem-III	B.Sc(Economics)-306	Computer Oriented Numerical And Statistical Methods Lab. (Practical)
Sem-III	B.Sc(Economics)-307	General Punjabi/ Basic Punjabi
Sem-III	B.Sc(Economics)-308	Communication Skills In English
Sem-V	B.Sc(Economics)-501	Mathematics Paper–I: Dynamics
Sem-V	B.Sc(Economics)-502	Mathematics Paper–II: Number Theory
Sem-V	B.Sc(Economics)-503	Quantitative Techniques–V
Sem-V	B.Sc(Economics)-504	Economics Of Development
Sem-V	B.Sc(Economics)-505	Computer Science Data Base Management System & Oracle (Theory)
Sem-V	B.Sc(Economics)-506	Computer Science Data Base Management System & Oracle (Practical)
Sem-V	B.Sc(Economics)-507	General Punjabi/ Basic Punjabi
Sem-V	B.Sc(Economics)-508	Communication Skills In English

LESSON PLAN B.SC(ECONOMICS) SEMESTER-I
MATHEMATICS
PAPER-I: ALGEBRA

Topic-I

Topic	Resources	Time
Rank of a Matrix	K.B. Dutta: Matrix and Linear Algebra, Prentice Hall of India Pvt. Ltd., New Delhi (2002). H.S. Hall and S.R. Knight: Higher Algebra, H.M. Publications, 1994. Shanti Narayan: Text Book of Matrix	Two Weeks
Body of the lesson: Linear independence of row and column vectors. Row rank, Column rank of a matrix, Equivalence of column and row ranks, Nullity of matrix		
Conclusion: Students will be able to learn the basics of rank of a matrix. Assignment on Question of Rank of a matrix.		

Topic-II

Topic	Resources	Time
Linear equations Cayley Hamilton theorem	K.B. Dutta: Matrix and Linear Algebra, Prentice Hall of India Pvt. Ltd., New Delhi (2002). H.S. Hall and S.R. Knight: Higher Algebra, H.M. Publications, 1994. Chandrika Parsad: Text book on Algebra and Theory of Equations, Pothishala Pvt. Ltd., Allahabad. Shanti Narayan: Text Book of Matrix	Three Weeks
Body of the lesson: Applications of matrices to a system of linear (both homogeneous and non-homogeneous) equations. Theorems on consistency of a system of linear equations. Eigen values, Eigen vectors, minimal and the characteristic equation of a matrix. Cayley Hamilton theorem and its use in finding inverse of a matrix		
Conclusion: Students will be able to learn to solve linear (both homogeneous and non-homogeneous) equations.		

Topic-III

Topic	Resources	Time
Quadratic Forms	K.B. Dutta: Matrix and Linear Algebra, Prentice Hall of India Pvt. Ltd., New Delhi (2002). H.S. Hall and S.R. Knight: Higher Algebra, H.M. Publications, 1994. Chandrika Parsad: Text book on Algebra and	Three Weeks

	Theory of Equations, Pothishala Pvt. Ltd., Allahabad. Shanti Narayan: Text Book of Matrix	
<p>Body of the lesson:. Quadratic Forms, quadratic form as a product of matrices. The set of quadratic forms over a field. Congruence of quadratic forms and matrices. Congruent transformations of matrices. Elementary congruent transformations. Congruent reduction of a symmetric matrix. Matrix Congruence of skew-symmetric matrices. Reduction in the real field. Classification of real quadratic forms in variables. Definite, semi-definite and indefinite real quadratic forms. Characteristic properties of definite, semi-definite and indefinite forms.</p>		
<p>Conclusion: Students will learn classification of real quadratic forms in variables. Assignment on Quadratic Forms</p>		

Topic-IV

Topic	Resources	Time
Solution of cubic and biquadratic equations	H.S. Hall and S.R. Knight: Higher Algebra, H.M. Publications, 1994. Chandrika Parsad: Text book on Algebra and Theory of Equations, Pothishala Pvt. Ltd., Allahabad. Shanti Narayan: Text Book of Matrix	Four Weeks
<p>Body of the lesson:. Relations between the roots and coefficients of general polynomial equation in one variable. Transformation of equations and symmetric function of roots, Descarte's rule of signs, Newton's Method of divisors, Solution of cubic equations by Cardon method, Solution of biquadratic equations by Descarte's and Ferrari's Methods</p>		
<p>Conclusion: Students will be able to solve various equations</p>		

**LESSON PLAN B.SC. (ECONOMICS) SEMESTER-I
MATHEMATICS
PAPER-II: CALCULUS AND TRIGONOMETRY**

Topic-I

Topic	Resources	Time
Real number system	Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999.	Three Weeks
Body of the lesson: Real number system and its properties, lub, glb of sets of real numbers.		
Conclusion: Students will be able to learn the basics of real number system and its properties . Assignment on lub and glb of real numbers and inequalities		

Topic-II

Topic	Resources	Time
Limit and Continuity	N. Piskunov: Differential and Integral Calculus, Peace Publishers, Moscow.. Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999.	Two Weeks
Body of the lesson: limit of a function, Basic properties of limits, Continuous functions and classification of discontinuities, Uniform continuities		
Conclusion: Students will be able to learn the use of limit and continuity . Assignment on limit ,continuity and uniform continuity		

Topic-III

Topic	Resources	Time
Differentiation	N. Piskunov: Differential and Integral Calculus, Peace Publishers, Moscow. Gorakh Prasad: Differential Calculus, Pothishala Pvt. Ltd., Allahabad. Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999.	Two Weeks
Body of the lesson: Differentiation of hyperbolic functions, Successive differentiation, Leibnitz theorem		
Conclusion: Students will be able to learn the use of Leibnitz theorem to find higher order derivatives. Assignment on successive differentiation		

Topic-IV

Topic	Resources	Time
Taylor's and Maclaurin's theorem , Indeterminate forms	Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999.	Two Weeks
Body of the lesson: Taylor's and Maclaurin's theorem with various forms of remainders, Indeterminate forms		
Conclusion: Students will be able to learn the use of Taylor's and Maclaurin's theorem with various forms of remainders, Indeterminate forms Assignment on Linear indeterminate forms		

Topic-V

Topic	Resources	Time
De-Moivre's Theorem Summation of series	Gorakh Prasad: Differential Calculus, Pothishala Pvt. Ltd., Allahabad. Erwin Kreyszig: Advanced Engineering Mathematics, John Wiley and Sons, 1999.	Four Week
Body of the lesson: De-Moivre's Theorem and its applications, circular and hyperbolic functions and their inverses. Exponential and Logarithmic function of a complex numbers, Expansion of trigonometric functions, Gregory's series, Summation of series.		
Conclusion: Students will be able to learn the use De-Moivre's theorem and its applications. Assignment on Questions related to above topics.		

LESSON PLAN B.SC(ECONOMICS) SEMESTER-I QUANTITATIVE TECHNIQUES

Topic-I

Topic	Resources	Time
Solution of Linear And Quadratic Equations	Allen, R.G.D.: Mathematical Analysis for Economists. Edward T Dowling: Introduction to Mathematical Economics.	Two weeks
<p>Introduction: The Systems of Linear and quadratic Equations are designed to learn the properties and options for solving systems of equations by using different methods like substitution method, elimination method ,cross-elimination method etc.</p>		
<p>Body of the lesson: Solution of Simultaneous Linear Equations (upto two variable case), Application of Linear Equation in Economics; Solution of Quadratic Equations with application in Economics</p>		
<p>Conclusion: This lesson unit is intended to help you assess how well students are able to formulate and solve problems using algebra and, in particular, to identify and help students who have the following difficulties solving a problem using linear and quadratic equations with two variables and interpreting the meaning of algebraic expressions in economics.</p>		

Topic-II

Topic	Resources	Time
Series: Arithmetic Progression Series, Geometric Progression Series	Allen, R.G.D.: Mathematical Analysis for Economists. Edward T Dowling: Introduction to Mathematical Economics.	Two Weeks
<p>Introduction: To follow the reasoning to deduce the general term of a progression as the mathematical expression that relates the position that occupies a term in the sequence with its value.</p>		
<p>Body of the lesson: Formula for the sum of the first n terms of any arithmetic and geometric sequence. Infinite sum of G.P.series, formation of series and their applications in economics</p>		
<p>Conclusion: Students will be able to learn the use of series in solving economic problems on the topic mentioned above. Assignment on A.P. And G.P.</p>		

Topic-III

Topic	Resources	Time
Analytical Geometry and Trigonometry	Allen, R.G.D.: Mathematical Analysis for Economists. Edward T Dowling: Introduction to Mathematical Economics.	TWO Weeks
<p>Introduction: Trigonometry is a branch of <u>mathematics</u> that studies relationships involving lengths and <u>angles</u> of <u>triangles</u>... Analytic geometry is the study of geometry on a grid called the coordinate plane, or <i>xy</i>-plane. Certain aspects of geometry can be handled very easily in the coordinate plane: distance between points, slopes of lines, finding midpoints, etc.</p>		
<p>Body of the lesson: Trigonometry starts by defining two basic functions on $\angle\theta$, namely, $\sin\theta$ and $\cos\theta$. Relation between $\sin\theta$ and $\cos\theta$. The Distance Formula, The Midpoint Formula, slope of a line, angle between lines etc.</p>		
<p>Conclusion: Students will be able to learn the use of geometry and trigonometry in economics. Assignment related to the topic.</p>		

Topic-IV

Topic	Resources	Time
combination , Permutation and Set theory	Allen, R.G.D.: Mathematical Analysis for Economists. 4. Edward T Dowling: Introduction to Mathematical Economics.	Two weeks
<p>Introduction: In this lesson, we learned the basic concepts and formulae useful for solving questions on Permutations & Combinations. Set theory is a branch of mathematical logic that studies sets, which informally are collections of objects.</p>		
<p>Body of the lesson: Permutation is defined as arrangement of r things that can be done out of total n things. This is denoted by ${}^n P_r$ which is equal to $n!/(n-r)!$ Combination is defined as selection of r things that can be done out of total n things. This is denoted by ${}^n C_r$ which is equal to $n!/r!(n-r)!$ Union , intersection of sets, proper subsets, venn-diagramms, De-Morgan's law ,identity law, distributive law etc and its economical applications</p>		
<p>Conclusion: Students will be able to learn the use of combination , Permutation and Set theory Assignment on the related topic.</p>		

Topic-V

Topic	Resources	Time
functions, graph of linear and quadratic functions (Economic applications). Limits and continuity of a function.	Allen, R.G.D.: Mathematical Analysis for Economists. 4. Edward T Dowling: Introduction to Mathematical Economics. Mathematical analysis for Economists, Allen R.G.D	Two weeks
Introduction: The student will be able to differentiate between a relation and a function.		
Body of the lesson: Basic concepts domain ,range , co-domain, types of functions with their graphs, continuity types of discontinuity. Difference between a constant and a variable, concept of functions, classifications of functions, graph of linear and quadratic functions (Economic applications). Limits and continuity of a function.		
Conclusion: Students will be able to learn the use of functions, limit and continuity of the function Assignment on on functions and continuity.		

Topic-VI

Topic	Resources	Time
Concept of differentiation	Allen, R.G.D.: Mathematical Analysis for Economists. 4. Edward T Dowling: Introduction to Mathematical Economics.	Two Weeks
Introduction : The essence of calculus is the derivative . The derivative is the instantaneous rate of change of a function with respect to one of its variables. This is equivalent to finding the slope of the tangent line to the function at a point.		
Body of the lesson: ab-intio principle, Derivatives (Excluding Trigonometric and Inverse Functions): Rules of derivatives; functions of functions rule; derivatives of implicit functions, parametric functions, exponential functions, logarithmic functions (Application in Economics		
Conclusion: Derivative is the slope of a tangent line. A function's derivative can be used to search for the <u>maxima and minima</u> of the function by searching for places where its slope is zero.		

LESSON PLAN B.SC (ECONOMICS) SEMESTER-I

MICROECONOMICS

Topic	Notes/strategies/ Resources	Time
Definition of Economics	The topic will help the students to have in-depth knowledge about the evolution of definition of Economics	1.5 weeks
Body of lesson: <ul style="list-style-type: none"> • Adam Smith • Marshall and • Robbins definition of Economics 	Students will be given notes pertaining to the theory of the chapter. A comparative analysis of these three different definitions of economics will also be done. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Microeconomics by T.R. Jain 	
Conclusion	Assignments will be given. Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Basic concepts of Economics	The topic is imperative to have clarity about the various basic concepts of Economics	1.5 weeks
Body of lesson: <ul style="list-style-type: none"> • Human wants • Utility and satisfaction • Basic Economic Problems 	A detailed discussion on the topics under study will be carried out. Students will be given notes pertaining to the different concepts of Economics. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain 	
Conclusion	Assignments will be given. Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Price Determination	The topic is imperative to have clarity about the process of determination of equilibrium price by the market forces of demand and supply	1 week
Body of lesson: <ul style="list-style-type: none"> • Demand function • Supply function • Price Determination by forces of demand and supply 	A detailed discussion on the topics under study will be carried out. Students will be given notes. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain 	
Conclusion	Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Elasticity of demand	The topic is imperative to have clarity about the concept of elasticity and its measurement	1.5 week
Body of lesson: <ul style="list-style-type: none"> • Price , Income and Cross Elasticity of Demand • Methods to measure Price Elasticity of demand 	A detailed discussion on the topics under study will be carried out. Students will be given notes. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain 	
Conclusion	Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Theories of Consumer behaviour	The topic is imperative to have clarity about the different theories of consumer equilibrium	3.5 week
Body of lesson: <ul style="list-style-type: none"> • Utility Analysis- Law of DMU, Law of EMU and • Consumer equilibrium. • Indifference Curve Analysis- Properties and consumer equilibrium. • Revealed Preference Theory of demand 	A detailed discussion on the topics under study will be carried out. Students will be given notes. A comparative analysis of these three different theories will also carried out. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain 	
Conclusion	Assignment will be given. Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Theory of Production	The topic is essential so as to have clarity about the meaning and different types of Production function.	1.5 week
Body of lesson: <ul style="list-style-type: none"> • Concept of Production function. • Law of Variable Proportion. • Laws of Returns to Scale 	A detailed discussion on the topics under study will be carried out. Students will be given notes. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by 	

	<p>Koutsoyiannis</p> <ul style="list-style-type: none"> • Economics by Paul Samuelson • Microeconomics by T.R. Jain • Microeconomics by D. Salvatore 	
Conclusion	Assignment will be given. Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Theory of Cost and Theory of Revenue	The topic is essential so as to have clarity about the meaning and different types of Cost and revenue.	1.5 week
Body of lesson: <ul style="list-style-type: none"> • Meaning and different concepts of Cost. • Traditional theory of Cost. • Modern theory of Cost. • Meaning and different concepts of Revenue. • Revenue curves under different market conditions. • Relationship between Revenue and Elasticity of Demand. 	A detailed discussion on the topics under study will be carried out. Students will be given notes. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain • Microeconomics by D. Salvatore 	
Conclusion	Assignment will be given. Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Market Forms	The topic is essential so as to have clarity about the meaning, features and different types of market.	2 weeks
Body of lesson: <ul style="list-style-type: none"> • Meaning and features of Perfect Competition. • Price and output determination of a firm and an industry under of Perfect Competition. • Meaning and features of Monopoly. • Price and output determination under Monopoly. • Meaning and features of Monopolistic 	A detailed discussion on the topics under study will be carried out. Students will be given notes. A comparative analysis of three markets will also be carried out. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain • Microeconomics by D. Salvatore 	

Competition. <ul style="list-style-type: none"> • Price and output determination under Monopolistic Competition. 		
Conclusion	Assignment will be given. Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Marginal Productivity Theory	The topic is essential so as to have clarity about the theory of determination of wages.	1 week
Body of lesson: <ul style="list-style-type: none"> • Marginal Productivity Theory of wages • Modern Theory of wages 	A detailed discussion on the topics under study will be carried out. Students will be given notes. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain • Microeconomics by D. Salvatore 	
Conclusion	Tests will be conducted.	

Topic	Notes/strategies/ Resources	Time
Rent, interest and Profit	The topic is essential so as to have clarity about the various theories of rent , interest and profits.	1 week
Body of lesson: <ul style="list-style-type: none"> • Ricardian Theory of Rent • Modern Theory of Rent • Classical Theory of Interest • Loanable Funds Theory • Risk and Uncertainty theories of Profit 	A detailed discussion on the topics under study will be carried out. Students will be given notes. The books consulted will be: <ul style="list-style-type: none"> • A text book of Economics by Stonier and Hague • Modern Microeconomics by Koutsoyiannis • Economics by Paul Samuelson • Microeconomics by T.R. Jain • Microeconomics by D. Salvatore 	
Conclusion	Tests will be conducted.	

LESSON PLAN B.SC(ECONOMICS) SEMESTER-I
COMPUTER FUNDAMENTALS AND PC SOFTWARE

Topic	Notes/Strategies/ Resources	Time
Introduction to Computers and its Applications	<ul style="list-style-type: none"> • Students will Learn About What is Computer? • Characteristics of Computer • Applications of Computers • Various Functional Units of Computer along with diagram <p>✓ From Computer Fundamentals by PK Sinha</p>	1 week
Hardware and Software	<ul style="list-style-type: none"> • What is hardware and Software? • Milestones in Hardware and Software <p>✓ From Computer Fundamentals by Unimax publications</p>	2 Days
Types of Applications	<ul style="list-style-type: none"> • Students will gain knowledge about various types of Applications • Batch Applications • Online Applications • Real Time Applications <p>✓ From fundamentals of Information Technology by Anshuman Sharma</p>	1 Day
Input Devices	<ul style="list-style-type: none"> • Students will be Acquainted with what are input devices and different types of input devices • Text Input Devices • Graphical Input Devices • Cursor Control Input Devices • Vision Input Systems <p>✓ From Windows Based Computer Courses by Gurvinder Singh and Rachpal singh</p> <p>✓ From Computer Fundamentals By PK Sinha</p> <p>✓ Through Powerpoint Presentation</p>	10 Days

Output Devices	<ul style="list-style-type: none"> • Students will Learn about What are Output devices and various types of output devices • Monitors • Raster Scan and random Scan Systems • CRT Monitors • Colour Monitors • Printers and various types of printers (Character, Line , page) • Plotters • Voice Response Units ✓ From Windows Based Computer Courses by Gurvinder Singh and Rachpal singh ✓ From Computer Fundamentals By PK Sinha ✓ Through Powerpoint Presentation 	10 Days
Data Storage Devices	<ul style="list-style-type: none"> • Students will be acquainted with what is Computer Memory? • Primary Storage(RAM, ROM, Cache) • SRAM and DRAM • Secondary storage(Magnetic and optical) ✓ From Windows Based Computer Courses by Gurvinder Singh and Rachpal singh ✓ From Computer Fundamentals By PK Sinha ✓ Through Powerpoint Presentation 	5 Days
Introduction to Windows based Operating System	<ul style="list-style-type: none"> • Students will learn about Windows Operating System • Features of windows operating system • Anatomy of Window • Operations on Window • Desktop • Icons • Taskbar • Recycle Bin • Network places • My Computer Icon • Folder • Shortcut • Control panel ✓ From Windows Based Computer Courses by Gurvinder Singh and Rachpal singh 	5 Days

MS- Word	<ul style="list-style-type: none"> • Students will be acquainted with what is word processing? • Features of a Good Word processor • Anatomy of MS- Word Window • Creating, Saving and opening File • Importing and Exporting Files • Formatting Pages, paragraphs and sections • Indents and Outdents • Creating Lists and Numbering • Changing Styles, Font and Font Size • Editing Text • Finding and replacing text • Page Break and Section Break • Book Marks • Inserting Symbols and dates • Using tabs • Creating tables and various operations on Tables • Header and Footer • Printing <p>✓ From fundamentals of Information Technology by Anshuman Sharma</p>	15 Days
MS- Powerpoint	<ul style="list-style-type: none"> • Students will learn about Features of powerpoint • Anatomy of Ms-powerpoint window • Creating Presentation • Saving Presentation • Opening presentation • Inserting Audio and Video <p>✓ From fundamentals of Information Technology by Anshuman Sharma</p>	10 Days

LESSON PLAN B.SC(ECONOMICS) SEMESTER-I

GENERAL PUNJABI

ਆਤਮਅਨਾਤਮ	ਵਿਦਿਆਰਥੀਆਂ ਇਸ ਸਮੇਂ ਸਟਰ ਵਿੱਚ ਇਸ ਪਾਠ ਪੁਸਤਕ ਵਿੱਚੋਂ ਕਵਿਤਾ ਵਾਲਾ ਭਾਗ ਕਰਵਾਇਆ ਜਾਵੇਗਾ 1. ਪ੍ਰੇਮੇਹਣ ਸਿੰਘ	ਸਮਾਂ 1-3 ਦਿਨ
ਗਿਆਨਮਾਲਾ	੧ ਪਹੀਆ ਪ੍ਰਸ਼ਣ	1-3 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	1. ਸੈਦਾਂਤੇ ਸਬਜਾਂ 2. ਖਾਨਗਾਹੀ ਦੀ ਵਾਬਾਲ ਦੀਏ ਕਵਿਤਾ ਵਾਦ ਵਿਸ਼ੇ ਗਤ ਸਰੋਕਾਰਾਂ ਦਾ ਅਧਿਐਨ ਕਰੋ	
ਆਤਮਅਨਾਤਮ	2 ਅਮਿਤਾ ਪ੍ਰੀਤਮ	1-3 ਦਿਨ
ਗਿਆਨਮਾਲਾ	2. ਭਰੂਣਹੱਤਿਆ ਦੇ ਦੇਸ਼ ਵਿੱਚ	
ਨਿਸ਼ਕਰਸ਼	੧ ਅਮਿਤਾ ਪ੍ਰੀਤਮ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਅੰਨ ਦਾ ਤਾਅਤੇ ਅੱਜ ਆਖਾਂ ਵਾਰਿਸ ਸ਼ਾਹ ਨੂੰ ਦੇ ਥੀ ਮਿਕ ਸਰੋਕਾਰਾਂ ਦਾ ਅਧਿਐਨ ਕਰੋ ੨ ਭਰੂਣਹੱਤਿਆ ਦੇ ਦੇਸ਼ ਵਿੱਚ ਨਿਬੰਧ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ	1-3 ਦਿਨ
ਆਤਮਅਨਾਤਮ	੩ ਸ਼ਿਵਕੁਮਾਰ ਬਟਾਲਵੀ	1-3 ਦਿਨ
ਗਿਆਨਮਾਲਾ	੩ ਨਾਰੀ ਸ਼ਕਤੀ	
ਨਿਸ਼ਕਰਸ਼	1 ਲੂਣਾ ਅਤੇ ਜੀ ਚਾਹੇ ਪੰਛੀ ਹੋ ਜਾਵਾਂ ਕਵਿਤਾ ਵਾਂ ਦਾ ਵਿਸੇਵ ਸਤੂਤਿਆਰ ਕਰ ਵਾਇਆ ਗਿਆ ੨ ਨਾਰੀ ਸ਼ਕਤੀ ਨਿਬੰਧ ਦਾ ਵਿਸ਼ਾ ਵ ਸਤੂਤਿਆਰ ਕਰ ਵਾਇਆ ਜਾਵੇਗਾ	1-3 ਦਿਨ

ਆਤਮਅਨਾਤਮ	੪ ਸੁਰਜੀਤਪਾਤਰ	1-3 ਦਿਨ
ਗਿਆਨਮਾਲਾ	੪ ਵਾਤਾਵਰਣੀ ਪ੍ਰਸ਼ਾਣ ਅਤੇ ਮਨੁੱਖ	
ਨਿਸ਼ਕਰਸ਼	੧ ਸੁਰਜੀਤਪਾਤਰ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਹੁਣਘਰਾਂ ਨੂੰ ਪਰਤਣਾਂ ਅਤੇ ਸੁੰਨੇ ਸੁੰਨੇ ਰਾਹਾਂ 'ਤੇ ਕੋਈ ਕੋਈ ਪੈੜ ਹੈ ਦਾ ਨਕਸਲੀ ਦ੍ਰਿਸ਼ਟੀ ਤੋਂ ਮੁਲਾਂਕਣ ਕੀਰਾ ਜਾ ਵੇਗਾ ੨ ਵਾਤਾਵਰਣੀ ਪ੍ਰਸ਼ਾਣ ਅਤੇ ਮਨੁੱਖ ਨਿਬੰਧ ਦਾ ਸਾਰ ਲਿਖੋ	1-3 ਦਿਨ
ਆਤਮਅਨਾਤਮ	5 ਪਾਸ਼	1-3 ਦਿਨ
ਗਿਆਨਮਾਲਾ	੫ ਏਡਜ ੧	1-3 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	੫ ਪਾਸ਼ ਦੀਆਂ ਕਵਿਤਾਵਾਂ ਇਨਕਾਰ ਅਤੇ ਮੇਰੇ ਤੋਂ ਆਸ ਨਾ ਕਰਿਓ ਕਵਿਤਾਵਾਂ ਦਾ ਨਕਸਲੀ ਲਹਿਰ ਦੇ ਪਰਿਪੇਖ ਵਿੱਚ ਅਧਿਐਨ ੨ ਏਡਜ ਨਿਬੰਧ ਦਾ ਸਾਰ ਆਪਣੇ ਸ਼ਬਦਾਂ ਵਿੱਚ ਲਿਖੋ	
ਵਿਅਕਰਨ	1 ਪੰਜਾਬੀ ਧੁਨੀ ਵਿਉਂਤ	
	ੳ. ਸਵਰ ਦੀ ਪਰਿਭਾਸ਼ਾ ਅ. ਸਵਰ ਦੀਆਂ ਕਿਸਮਾਂ ੲ. ਉਚਾਰਨ ਅੰਗ	1-4 ਦਿਨ
ਪੈਰਾਰਚਨਾ	ਪੈਰਾਰਚਨਾ ਕੀ ਹੈ? ਚੰਗੀ ਪੈਰਾਰਚਨਾ ਦੇ ਗੁਣ	1-3 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	1 ਸਵਰ ਉਪਰਨੇਟ ਲਿਖੋ 2 ਵਿਦਿਆਰਥੀ ਅਤੇ ਅਨੁਸ਼ਾਸਨ ਦੇ ਵਿਸ਼ੇ 'ਤੇ ਪੈਰਾਰਚਨਾ ਕਰੋ	
ਵਿਅਕਰਨ	ਸ. ਵਿਅੰਜਨ ਦੀ ਪਰਿਭਾਸ਼ਾ ਹ ਵਿਅੰਜਨ ਦੀਆਂ ਕਿਸਮਾਂ ਕ ਸੁਰਪ੍ਰਣਾਲੀ	1-5 ਦਿਨ
ਅਣਡਿੱਠਾ ਪੈਰਾ	ਅਣਡਿੱਠਾ ਪੈਰੇ ਦਾ ਅਭਿਆਸ ਕਰਵਾਇਆ ਜਾਵੇਗਾ	1-3 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	ਧੁਨੀ ਵਿਉਂਤ ਉਪਰਨੇਟ ਲਿਖੋ	

<p>ਵਿਆਕਰਨ</p> <p>ਨਿਸ਼ਕਰਸ਼</p>	<p>ਪੰਜਾਬੀਭਾਸ਼ਾਅਤੇਉਪਭਾਸ਼ਾ ਉ.ਭਾਸ਼ਾਅਤੇਉਪਭਾਸ਼ਾਵਿਚਅੰਤਰ ਅ.ਭਾਸ਼ਾਵੰਨਗੀਆਂ ਬਪੰਜਾਬੀਦੀਆਂਉਪਭਾਸ਼ਾਵਾਂਅਤੇਉਹਨਾਂਦੇਪਛਾਣਚਿਨ ਸਟਕਸਾਲੀਭਾਸ਼ਾ</p> <p>ਭਾਸ਼ਾਅਤੇਉਪਭਾਸ਼ਾਦੇਅੰਤਰਨੂੰਸਪਸ਼ੱਟਕਰਦੇਹੋਏਉਪਭਾਸ਼ਾਵਾਂਦੇਪਛਾ ਣਚਿੰਨਨਿਸ਼ਚਿਤਕਰੋ</p>	<p>1-6 ਦਿਨ</p>
<p>ਵਿਆਕਰਨ</p> <p>ਨਿਸ਼ਕਰਸ਼</p>	<p>ਮਾਤਭਾਸ਼ਾ ਉ.ਮਾਤਭਾਸ਼ਾਕੀਹੁੰਦੀਹੈ? ਅ.ਮਾਤਭਾਸ਼ਾਪੜਨੀਕਿਓਜਰੂਰੀਹੈ? ਬ. ਮਾਤਭਾਸ਼ਾਦੇਅਧਿਐਨਦੀਆਂਕੀਸਮੱਸਿਆਵਾਂਹਨ?</p> <p>ਮਾਤਭਾਸ਼ਾਦੇਅਧਿਐਨ 'ਤੇਨੋਟਲਿਖੋ।</p>	<p>1-5 ਦਿਨ</p>
<p>ਵਿਆਕਰਨ</p> <p>ਨਿਸ਼ਕਰਸ਼</p>	<p>ਦੂਜੀਭਾਸ਼ਾ ਉ. ਦੂਜੀਭਾਸ਼ਾਕੀਹੁੰਦੀਹੈ? ਅਦੂਜੀਭਾਸ਼ਾਪੜਨੀਕਿਓਜਰੂਰੀਹੈ? ਬਦੂਜੀਭਾਸ਼ਾਦੇਅਧਿਐਨਦੀਆਂਸਮੱਸਿਆਵਾਂ 'ਤੇਨੋਟਲਿਖੋ</p> <p>ਦੂਜੀਭਾਸ਼ਾ'ਤੇਨੋਟਲਿਖੋ</p>	<p>1-4 ਦਿਨ</p>

LESSON PLAN B.SC. (ECONOMICS) SEMESTER -I

BASIC PUNJABI

ਜਾਣ ਪਛਾਣ	ਇਸ ਵਿਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਦੀ ਮੁੱਢਲੀ ਸਿਖਿਆ ਦਿੱਤੀ ਜਾਵੇਗੀ ਤਾਂ ਜੋ ਉਹ ਪੰਜਾਬੀ ਦੀ ਵਰਣਮਾਲਾ ਅਤੇ ਸ਼ਬਦ ਬਣਤਰ ਨੂੰ ਚੰਗੀ ਤਰ੍ਹਾਂ ਸਮਝ ਸਕਣ	ਸਮਾਂ
ਵਿਆਕਰਨ	1.ਪੈਂਤੀ ਅੱਖਰੀ 2.ਪੈਰ ਵਿਚ ਬਿੰਦੀ ਵਾਲੇ ਅੱਖਰ 3.ਲਗਾਂ ਮਾਤਰਾਂ	1-6 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੈਂਤੀ ਅੱਖਰੀ ਬਾਰੇ ਨੋਟ ਲਿਖਣ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ ਕਲਾਸ ਵਿਚ ਪੈਂਤੀ ਅੱਖਰੀ ਦਾ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ	1-6 ਦਿਨ
ਵਿਆਕਰਨ	ਲਗਾਖਰ (ਬਿੰਦੀ, ਟਿੱਪੀ, ਅੱਧਕ) ਪੈਰ ਵਿਚ ਪੈਣ ਵਾਲੇ ਅੱਖਰ	1-6 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	ਪੈਂਤੀ ਅੱਖਰੀ ਦੀ ਤਰਤੀਬ ਅਤੇ ਬਣਤਰ ਬਾਰੇ ਪ੍ਰਸ਼ਨ ਪੈਰ ਵਿਚ ਪੈਣ ਵਾਲੇ ਅੱਖਰਾਂ ਬਾਰੇ ਕਲਾਸ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ	1-6 ਦਿਨ
ਵਿਆਕਰਨ	ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹਾਂ ਦੀ ਵਰਤੋਂ ਨਾਂਵ	1-6 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	ਪੜਨਾਂਵ, ਵਿਸ਼ੇਸ਼ਣ ਵਿਸ਼ਰਾਮ ਚਿੰਨ੍ਹਾਂ ਬਾਰੇ ਕਲਾਸ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ	1-3 ਦਿਨ
ਵਿਆਕਰਨ	ਕਿਰਿਆ ਲਿੰਗ ਅਤੇ ਵਚਨ	1-3 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	ਲਿੰਗ ਅਤੇ ਵਚਨ ਬਾਰੇ ਕਲਾਸ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਨਾਂਵ ਪੜਨਾਂਵ ਬਾਰੇ ਨੋਟ ਲਿਖਣ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ	1-6 ਦਿਨ
ਵਿਆਕਰਨ	ਕਵਰਗ,	1-6 ਦਿਨ
ਨਿਸ਼ਕਰਸ਼	ਚਵਰਗ, ਤਵਰਗ, ਪਵਰਗ ਕਵਰਗ, ਚਵਰਗ, ਤਵਰਗ, ਪਵਰਗ ਬਾਰੇ ਵਿਸਤਾਰ ਵਿਚ ਚਰਚਾ ਅਤੇ ਅਭਿਆਸ ਕਰਵਾਇਆ ਜਾਵੇਗਾ ਇਮਤਿਹਾਨਾਂ ਦੀ ਤਿਆਰੀ ਕਰਵਾਈ ਜਾਵੇਗੀ	1-3 ਦਿਨ

LESSON PLAN B.SC.(ECONOMICS) SEMESTER-I ENGLISH

July 2017

Contents	Books	Plan	Activity	Assignment
1.Short stories	Tales of life	Story no. 1	Reading in class	Tests from each textbook carrying 10 marks each
2.Essays	PROSE FOR YOUNG LEARNERS	Essay no. 1	Oral tests	
3.Grammar	English Grammar in use by Raymond Murphy	Unit 1 to 5	Practice of exercises given	

August 2017

Books	Plan	Activity	Assignment
Tales of life	Story no. 1 & 2	Loud reading	Class tests and oral revision
Prose for young learners	Essay no. 2	Discussion of back exercises	
English Grammar	Unit 6 to 12	Practice of grammar	

September 2017

Books	Plan	Activity	Assignment
Tales of life	Story no. 5	Back exercises to be discussed	Regular class tests and composing of long questions
Prose for young learners	Essay no. 3 & no.5	Back exercise to be discussed	
English grammar	Unit 13 to 30	Practice of grammar exercises	

October 2017

Books	Plan	Activity	Assignment
Tales of life	Story no. 6	Back exercises to be discussed	Long questions based on syllabi and test of complete grammar exercises
Prose for young learners	Essay no. 6	Reading of essays thoroughly	
English grammar	Unit 31 to 48	Practice of grammar	

November 2017

Books	Plan	Activity
3 Books	Discussion on current affairs	Class tests
	University examination preparation	Revision

LESSON PLAN B.SC(ECONOMICS) SEMESTER-III

MATHEMATICS

PAPER-I: ANALYSIS

Topic-I

Topic	Resources	Time
Sequence	1.Malik, S.C.: Mathematical Analysis, Wiley Eastern Ltd. (1991). 2. Apostol, T.M.: Mathematical Analysis, Addison Wesley Series in Mathematics (1974). 3. Narayan, S.: Integral Calculus, Sultan Chand & Sons	Three Weeks
<p>Introduction: In this topic, we discuss the basic ideas involved in sequences and convergence. We start by defining sequences and follow by explaining convergence and divergence, bounded sequences, continuity, and subsequences. Relevant theorems</p>		
<p>Body of the lesson: Definition of a sequence. Theorems on limits of sequences. Bounded and monotonic sequences. Cauchy's convergence criterion.</p>		
<p>Conclusion : Students will be able to learn the use of Sequences , Convergence and divergence of sequences Assignment on convergence of sequence and subsequences, Cauchy sequences</p>		

Topic-II

Topic	Resources	Time
Series	1.Malik, S.C.: Mathematical Analysis, Wiley Eastern Ltd. (1991). 2. Apostol, T.M.: Mathematical Analysis, Addison Wesley Series in Mathematics (1974). 3. Narayan, S.: Integral Calculus, Sultan Chand & Sons	Three Weeks
<p>Introduction: It is a concept of convergence of series of real numbers and of continuous functions of a real variable.</p>		
<p>Body of the lesson: Series of non-negative terms. Comparison tests. Cauchy's integral tests. Ratio tests. Cauchy's root test. Raabe's test, logarithmic test. Demorgan's and Bertrand's tests. Kummer's test, Cauchy Condensation test, Gauss test, Alternating series. Leibnitz's test, absolute and conditional convergence.</p>		
<p>Conclusion: Students will be able to calculate the sum of series with different tests .</p>		

Topic-III

Topic	Resources	Time
Riemann integrability	1. Malik, S.C.: Mathematical Analysis, Wiley Eastern Ltd. (1991). 2. Apostol, T.M.: Mathematical Analysis, Addison Wesley Series in Mathematics (1974). 3. Narayan, S.: Integral Calculus, Sultan Chand & Sons	Three Weeks
<p>Introduction: In this topic, students will learn what a Riemann sum is and be given a step-by-step procedure of how to formulate them. They will also learn how to calculate both upper and lower Riemann sums. A formal definition of a definite integral will be discussed and students will learn and use integral notation – integrand, limits of integration, variable of integration, and what it means for an integral to be Riemann integrable</p>		
<p>Body of the lesson: Partitions, Upper and lower sums. Upper and lower integrals, Riemann integrability. Conditions of existence of Riemann integrability of continuous functions and of monotone functions. Algebra of integrable functions.</p>		
<p>Conclusion: The purpose of this lesson is to define definite integrals using Riemann sums. By doing this, students will truly understand how integrals work rather than just learning a formula. They will also learn many properties of the definite integral which will help them to perform their integrations faster.</p>		

Topic-IV

Topic	Resources	Time
Improper integrals	Shanti Narayan : A course of Mathematical Analysis. 2. Apostol, T.M. : Mathematical Analysis 2nd Edition 7.18(Th.7.30&7.31)	Three weeks
<p>Introduction: An improper integral is a <u>definite integral</u> that has either or both limits <u>infinite</u> or an <u>integrand</u> that approaches <u>infinity</u> at one or more points in the range of integration.</p>		
<p>Body of the lesson: Improper integrals and statements of their conditions of existence. Test of the convergence of improper integral, beta and gamma functions.</p>		
<p>Conclusion: Students will be able to calculate improper integral using different methods Assignment related to the topic.</p>		

LESSON PLAN B.SC.(ECONOMICS) SEMESTER-III

PAPER-II: ANALYTICAL GEOMETRY

Topic-I

Topic	Resources	Time
Transformation of axes	1.Gorakh Prasad and H.C. Gupta: Text Book on Coordinate Geometry. 2. S.L. Loney: The Elements of Coordinate Geometry, Macmillan and Company, London. 3. Narayan, S.: Analytical Solid Geometry, Sultan Chand & Sons (2005).	Two Weeks
Body of the lesson: Transformation of axes, shifting of origin, Rotation of axes, The invariants, Joint equation of pair of straight lines, equations of bisectors		
Conclusion: Students will learn to shift the origin and rotation of axis		

Topic-II

Topic	Resources	Time
Parabola	1.Gorakh Prasad and H.C. Gupta: Text Book on Coordinate Geometry. 2. S.L. Loney: The Elements of Coordinate Geometry, Macmillan and Company, London. 3. Narayan, S.: Analytical Solid Geometry, Sultan Chand & Sons (2005).	Three Weeks
Body of the lesson: Parabola and its properties. Tangents and normal, Pole and polar, pair of tangents at a point, Chord of contact, equation of the chord in terms of midpoint and diameter of conic.		
Conclusion : Students will be able to learn about parabola. Assignment on the related topic.		

Topic-III

Topic	Resources	Time
Ellipse and hyperbola	1.Gorakh Prasad and H.C. Gupta: Text Book on Coordinate Geometry. 2. S.L. Loney: The Elements of Coordinate Geometry, Macmillan and Company, London. 3. Narayan, S.: Analytical Solid Geometry, Sultan Chand & Sons (2005).	Three Weeks
Body of the lesson: Ellipse and hyperbola with their properties. Tangents and normal, Pole and polar. pair of tangents at a point, Chord of contact,		
Conclusion: Students will be able to learn various conics.		

Topic-IV

Topic	Resources	Time
Identifications of curves Change of axes	1.Narayan, S.: Analytical Solid Geometry, Sultan Chand & Sons (2005). 2. Kreyszig, E.: Advanced Engineering Mathematics. 3.Thomos, G.B. and Finney, R.L.: Calculus and Analytic Geometry.	One week
Body of the lesson : Identifications of curves represented by second degree equation (including pair of lines). Intersection of three planes, condition for three planes to intersect in a point or along a line or to form a prism. Change of axes, Shift of origin, rotation of axes.		
Conclusion: Students will be able to learn how to identify and rough sketch of the curves.		

Topic-V

Topic	Resources	Time
Sphere	1.Narayan, S.: Analytical Solid Geometry, Sultan Chand & Sons (2005). 2. Kreyszig, E.: Advanced Engineering Mathematics. 3.Thomos, G.B. and Finney, R.L.: Calculus and Analytic Geometry.	Two weeks
Body of the lesson : Sphere, Section of a sphere by a plane, spheres of a given circle. Intersection of a line and a sphere. Tangent line, tangent plane, power of a point w.r.t. a sphere, radical planes.		
Conclusion: Students will be able to learn sphere and radical planes Assignment related to the topic		

LESSON PLAN B.SC.(ECONOMICS) SEMESTER-III QUANTITATIVE TECHNIQUES

Topic-I

Topic	Resources	Time
Matrices and Determinants	Mathematics and Statistics for Economics, G.S Monga, Mathematics for Economics, Yamane Taro	Four Weeks
<p>Introduction: Matrix is a rectangular array of elements in rows and columns put in large braces. In algebra, a determinant is a function depending on n that associates a scalar, $\det(A)$, to every $n \times n$ square matrix A.</p>		
<p>Body of the lesson: Types of matrices, Algebra of matrices. Inverse of matrix. Concept of determinants. Solution to system of linear equations. Applications of both matrices and determinants in economics.</p>		
<p>Conclusion: Students will be able to learn the basics of matrices and determinants and be able to solve the various problems in economics with the help of them. Assignment on Matrices and determinants</p>		

Topic-II

Topic	Resources	Time
Differentiation	Mathematics and Statistics for Economics, G.S Monga, Mathematics for Economics, Yamane Taro, Fundamental Methods of Mathematical Economics, Chaing, A.	Two Weeks
<p>Introduction: Differentiation involves finding the rate at which a variable quantity is changing. This is useful in business and economic applications concerning changes like growth, decay, costs and profit etc. A partial derivative is a derivative of a function with respect to a single argument of the function, holding the other arguments fixed. The study extends to Higher order partial derivatives.</p>		
<p>Body of the lesson: Testing of functions for maxima and minima using first derivative and second derivative tests. Second order partial derivatives with economic applications such as minimization of cost & maximization of profit and Elasticities.</p>		
<p>Conclusion: Students will be able to learn the use of partial derivatives in solving economic problems mentioned above. Assignment on Differentiation</p>		

Topic-III

Topic	Resources	Time
Integration	Mathematics and Statistics for Economics, G.S Monga, Mathematics for Economics, Yamane Taro, Fundamental Methods of Mathematical Economics, Chaing, A.	Two Weeks
<p>Introduction: The process of integration consists in finding a function whose derivative or differential is already known. The resulting function is an anti-derivative usually called an integral. There are two fundamental concepts of integral calculus: Indefinite integral and definite integral.</p>		

Body of the lesson: Indefinite integrals by Partial Fractions; Substitution; Integration by Parts; Definite Integrals. Application of Integration in Consumer Surplus and Producer Surplus.
Conclusion: Students will be able to learn the use of Integral calculus in economics. Assignment on Integral calculus.

Topic-IV

Topic	Resources	Time
Linear Programming	Fundamental Methods of Mathematical Economics, Chaing, A.	Three Weeks
Introduction: Programming means planning. In economics, programming means planning of economic activities to get optimal solutions to problems. Linear programming is a practical tool of analysis and calculation which yields the optimum for a linear objective function subject to constraints in the form of inequalities.		
Body of the lesson: Formulation of problem, Assumptions, Graphical solution, Simplex method. Use of Artificial Variables, Dual Simplex method.		
Conclusion: Students will be able to learn the use of linear programming in solving diet problems, transportation problem etc. Assignment on Linear Programming.		

Topic-V

Topic	Resources	Time
Input-Output Analysis	Mathematical analysis for Economists, Allen R.G.D	One Week
Introduction: Input output analysis is a technique for analysis interindustry relations. It is an analysis of the interdependence of the economy as a whole and studies the pattern of movements of intermediate products from one industry to other industries and the consumers.		
Body of the lesson: Basic concepts, Input-Output tables for closed and open economies, Leontief Basic Input-Output Model, Simple Applications of Input-Output Analysis.		
Conclusion: Students will be able to learn the use of basics of input and output concepts to economics. Assignment on Input-Output Analysis.		

LESSON PLAN B.SC.(ECONOMICS) SEMESTER-III

MACRO ECONOMICS

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Introduction to Macro Economics	To study the problems of the economy as a whole.	3 days
Body of Lesson <ul style="list-style-type: none"> • Difference between Micro & Macro economics • Scope of Macro Economics • Importance of Macro Economics • Features of Macro Economics • Assumptions & Limitations of Macro economics 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Classical Model of Income and Employment Determination	To study the determination of equilibrium level of income and employment in an economy.	2 days
Body of Lesson <ul style="list-style-type: none"> • Views of Classical economists on full employment • Wage rate flexibility • Rate of interest flexibility • Flexibility of prices 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Say's Law of Markets	To understand the basic arguments of Say's Law	3 days
Body of Lesson <ul style="list-style-type: none"> • Assumptions • Main Arguments • Applicability 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	

<ul style="list-style-type: none"> • Modern Statement • Implications 		
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Keynesian Model of Income and Employment Determination	To study the determination of equilibrium level of income and employment in an economy	3 days
Body of Lesson <ul style="list-style-type: none"> • Assumptions • Main concepts • Significance • Features 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Effective Demand	To understand the determination of the point of effective demand and level of employment	3 days
Body of Lesson <ul style="list-style-type: none"> • Meaning • Determinants • Equilibrium • Importance 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Consumption Function	To study how the disposable income of the individuals and households affects the consumption.	4 days
Body of Lesson <ul style="list-style-type: none"> • Meaning & Definition • Types • Attributes • Psychological Law • Importance • Determinants 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Investment Function	To study different types of investment and its determinants	3 days
Body of Lesson <ul style="list-style-type: none"> • Difference between financial and real investment • Determinants • Measures to stimulate private investment 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Marginal Efficiency of Capital	To study how investment depends on the expected rate of profitability	3 days
Body of Lesson <ul style="list-style-type: none"> • Meaning of MEC • Supply Price • Prospective Yield • Estimation of MEC in terms of discount rate • Factors affecting MEC • Kinds of Business expectations 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Multiplier	To study the extent to which income changes as a result of change in aggregate demand	4 days
Body of Lesson <ul style="list-style-type: none"> • Meaning & Definition of Static Multiplier • Relation between MPC and K • Working of Static Multiplier • Leakages • Working of Dynamic Multiplier • importance 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Principle of Acceleration	To understand that investment made in order to increase production will have to be many times more than the value of production	2days
Body of Lesson <ul style="list-style-type: none"> • Meaning & Definition • Assumptions • Working 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Multiplier- Accelerator Interaction	To understand that the complete change in income is due to the combined effect of Multiplier and Accelerator.	3 days
Body of Lesson <ul style="list-style-type: none"> • Meaning of Multiplier and Accelerator • Process of interaction • Importance 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Trade Cycles	To study rhythmic fluctuations taking place in an economy	4 days
Body of Lesson <ul style="list-style-type: none"> • Meaning and features • Different stages • Samuelson's Theory • Hicks' Theory 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Money and Quantity Theory of Money	To study the functions and value of money	4 days
Body of Lesson <ul style="list-style-type: none"> • Definition & Features of money • Features 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	

<ul style="list-style-type: none"> • Types • Functions • Importance • Definition of value of money • Fisher's Quantity theory of money • Cambridge theory of money • Difference between money market and capital market • Comparison between transaction and cash balance approach 		
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Liquidity Preference Theory	To study why the borrower pays interest to the capitalist	2 days
Body of Lesson <ul style="list-style-type: none"> • Definition of interest • Determination of ROI • Demand for Money • Monetary equilibrium and the ROI 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Banking	To understand how banking constitutes the foundation stone of economic growth	4 days
Body of Lesson <ul style="list-style-type: none"> • Definition of a commercial bank and central bank • Functions of a commercial bank • Functions of a central bank • Role of commercial banks in economic development • Process of credit creation by commercial banks • Methods of credit creation by central bank 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	

Conclusion	Students will be preparing assignments. One question will be given for class test .	
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TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Inflation	To study why every country in the world experience substantial and persistent rise in general price level	3 days
Body of Lesson <ul style="list-style-type: none"> • Meaning of inflation • Types • Theories • Causes • Effects • Measures to control inflation 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be preparing assignments. One question will be given for class test .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Monetary and Fiscal Policies	To understand the objectives and instruments of fiscal and monetary policies	3 days
Body of Lesson <ul style="list-style-type: none"> • Meaning and definition • Objectives • Instruments • Fiscal policy In UDCs 	<ul style="list-style-type: none"> • Notes will be provided for preparing different questions • Text Book- Macro Economics by T.R. Jain 	
Conclusion	Students will be participating in group discussion on the instruments of monetary policy. One question will be given for class test .	

LESSON PLAN B.SC. (ECONOMICS) SEMESTER-III

COMPUTER ORIENTED NUMERICAL AND STATISTICAL METHODS

Topic	Notes/Strategies/ Resources	Time
Introduction	<ul style="list-style-type: none">• Students will learn about what is Numerical methods?• Numerical methods versus Numerical Analysis• Errors and types of Errors• Measures of Errors• Significant Digits• Machine Epsilon• Error Propagation <p>✓ Numerical methods and Statistical techniques By Anshuman Sharma</p> <p>✓ Numerical Methods by BS Grewal</p>	5 Days
Non Linear Equations	<ul style="list-style-type: none">• Students will gain knowledge about what are non linear Equations• Methods of finding solution of non-linear equations• Various Iterative Methods• Order of convergence of iterative methods• Terminating Criteria for iterative methods• Bisection Method• False position Method• Newton Raphson method <p>✓ Numerical Methods by BS Grewal</p> <p>✓ Numerical methods and Statistical techniques By Anshuman Sharma</p>	10 Days
Linear Equations	<ul style="list-style-type: none">• Students will learn about what are linear equations• Methods of solving simultaneous equations• Guass Elimination Method• Guass Jordan method• Guass seidel Method• Matrix Inversion Method <p>✓ Numerical Methods by BS Grewal</p> <p>✓ Numerical methods and Statistical techniques By Anshuman Sharma</p>	10 Days

Interpolation	<ul style="list-style-type: none"> • Students will study about what is interpolation and its need? • Types of finite differences • Interpolation with equal intervals • Newton's forward difference Method • Newton's backward difference method • Interpolation with unequal intervals • Newton's divided difference method <p>✓ Numerical Methods by BS Grewal ✓ Numerical methods and Statistical techniques By Anshuman Sharma</p>	10 Days
Numerical Integration	<ul style="list-style-type: none"> • Students will gain knowledge about various numerical integration formulas • Trapezoidal Rule • Simpson's 1/3 Rule • Simpson's 3/8 Rule • Comparison between different methods of integration <p>✓ Numerical Methods by BS Grewal ✓ Numerical methods and Statistical techniques By Anshuman Sharma</p>	8 days
Measures of Central Tendency	<ul style="list-style-type: none"> • Students will be acquainted with different kinds of measures of central tendency • Preparing Frequency distribution table • Arithmetic Mean • Geometric Mean • Harmonic Mean • Median • Mode • Difference between mean, median , mode <p>✓ Numerical methods and Statistical techniques By Anshuman Sharma</p>	15 Days
Measures of Dispersion	<ul style="list-style-type: none"> • Students will gain knowledge on various measures of dispersion • Range • Mean Deviation • Standard Deviation • Co-efficient of variation <p>✓ Numerical methods and Statistical techniques By Anshuman Sharma</p>	10 Days

Skewness, moments and Kurtosis	<ul style="list-style-type: none"> • Students will learn about what is skewness, Moments and Kurtosis and their types • Measures of Skewness • Measures of moments • Measures of Kurtosis ✓ Numerical methods and Statistical techniques By Anshuman Sharma 	10 Days
Correlation Analysis	<ul style="list-style-type: none"> • Students will have understanding of What is Correlation and Regression and their types • Correlation in bivariate distribution • Correlation in multivariate distribution ✓ Numerical methods and Statistical techniques By Anshuman Sharma 	5 days
Regression Analysis	<ul style="list-style-type: none"> • Students will understand about regression and types of regression analysis • LinearRegression • Multiple Regression • Uses of Regression Analysis • Limitations of Regression Analysis ✓ Numerical methods and Statistical techniques By Anshuman Sharma 	5 Days
Trend Analysis	<ul style="list-style-type: none"> • Students will be acquainted with various methods of calculating curve Fitting • Least Square Method • Linear Trend • Non- Linear Trend • Polynomial Fit ✓ Numerical methods and Statistical techniques By Anshuman Sharma ✓ 	5 Days

LESSON PLAN B.SC(ECONOMICS) SEMESTER-III

GENERAL PUNJABI

ਜਾਣ - ਪਛਾਣ	ਇਸ ਸਮੇਂ ਸਟਰ ਵਿਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕਵਿਤਾ, ਇਕਾਂਗੀ ਅਤੇ ਵਿਆਕਰਨ ਪੜਾਈ ਜਾਵੇਗੀ।	ਸਮਾਂ
ਕਵਿ-ਕੀਰਤੀ	1. ਸਾਰ 2. ਵਿਸ਼ਾ-ਵਸਤੂ 3. ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ 4. ਸੰਦੇਸ਼	1-6(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	1. ਭਾਈ ਵੀਰ ਸਿੰਘ ਦੀਆਂ ਸੱਤ ਕਵਿਤਾਵਾਂ ਪੜਾਈਆਂ ਜਾਣਗੀਆਂ। ਕਵਿਤਾਵਾਂ ਦੇ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਕਰਵਾਏ ਜਾਣਗੇ।	
ਪਾਠਕ੍ਰਮ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ	1. ਸਾਰ 2. ਵਿਸ਼ਾ-ਵਸਤੂ 3. ਪਾਤਰ-ਚਿਤਰਨ	1-6(ਦਿਨ)
ਆਧੁਨਿਕ ਇਕਾਂਗੀ	1. ਸੁਹਾਗ 1. ਸੁਹਾਗ ਇਕਾਂਗੀ ਦਾ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਲਿਖੋ। 2. ਮੇਲੋਦਾ ਪਾਤਰ-ਚਿਤਰਨ ਕਰੋ।	
ਨਿਸ਼ਕਰਸ਼		
ਵਿਆਕਰਨ	ਭਾਸ਼ਾਵੰਨਗੀਆਂ ਭਾਵ ਅੰਸ਼ ਦੀ ਪਰਿਭਾਸ਼ਾ ਭਾਵ ਅੰਸ਼ ਦਾ ਵਰਗੀਕਰਨ	1-6(ਦਿਨ)
	ਕਲਾਸ ਵਿੱਚ ਵਿਆਕਰਨ ਦਾ ਟੈਸਟ ਵੀ ਲਿਆ ਜਾਵੇਗਾ। ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਸ਼ਬਦ ਜੋੜਾਂ ਦਾ ਅਭਿਆਸ ਵੀ ਕਰਵਾਇਆ ਜਾਵੇਗਾ।	1-2(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	1. ਭਾਵ ਅੰਸ਼ ਉੱਤੇ ਨੋਟ ਲਿਖੋ	1-2(ਦਿਨ)
ਪਾਠਕ੍ਰਮ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ	1. ਸਾਰ 2. ਵਿਸ਼ਾ-ਵਸਤੂ 3. ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ 4. ਸੰਦੇਸ਼	
ਕਵਿ-ਕੀਰਤੀ	1. ਧਨੀ ਰਾਮਚਾਂਡੀ ਅਤੇ ਪੂਰਨ ਸਿੰਘ ਦੀਆਂ ਛੇ ਕਵਿਤਾਵਾਂ ਪੜਾਈਆਂ ਜਾਣਗੀਆਂ।	1-6(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	ਕਵਿਤਾਵਾਂ ਦੀ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ ਕਰਨੀ ਹੈ।	
ਪਾਠਕ੍ਰਮ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ	1. ਸਾਰ 2. ਵਿਸ਼ਾ-ਵਸਤੂ 3. ਪਾਤਰ-ਚਿਤਰਨ	
ਆਧੁਨਿਕ ਇਕਾਂਗੀ	1. ਜਫਰ ਨਾਮਾ	

ਨਿਸ਼ਕਰਸ਼	ਜਫਰਨਾਮਾਇਕਾਂਗੀਦਾ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂਲਿਖੇ ਤੇਔਰੰਗਜੇਬਪਾਤਰ-ਚਿਤਰਨਕਰੋ।	1-6(ਦਿਨ)
ਵਿਆਕਰਨ	ਭਾਸ਼ਾਵੰਨਗੀਆਂ ਸ਼ਬਦਦੀਪਰਿਭਾਸ਼ਾ ਸ਼ਬਦਦਾਵਰਗੀਕਰਨ ਕਲਾਸਵਿੱਚਵਿਆਕਰਨਦਾਟੈਸਟਵੀਲਿਆਜਾਵੇਗਾ। ਵਿਦਿਆਰਥੀਆਂਨੂੰਸ਼ਬਦਜੋੜਾਂਦਾਅਭਿਆਸਵੀਕਰਵਾਇਆਜਾਵੇਗਾ।	1-6(ਦਿਨ) 1-2(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	1.ਸ਼ਬਦਉੱਤੇ ਨੋਟ ਲਿਖੋ।	1-2(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ ਕਵਿ-ਕੀਰਤੀ	1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪ੍ਰਸੰਗ ਸਹਿਤਵਿਆਖਿਆ 4.ਸੰਦੇਸ਼ 1.ਦੀਵਾਨ ਸਿੰਘਕਾਲੇਪਾਣੀਅਤੇਮੋਹਨਸਿੰਘਦੀਆਂ ਅੱਠ ਕਵਿਤਾਵਾਂਪੜਾਈਆਂਜਾਣਗੀਆਂ।	
ਨਿਸ਼ਕਰਸ਼	ਕਵਿਤਾਵਾਂਦੀਪ੍ਰਸੰਗਸਹਿਤਵਿਆਖਿਆਕਰਨੀਹੈ।	1-8(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ ਆਧੁਨਿਕਇਕਾਂਗੀ ਨਿਸ਼ਕਰਸ਼	1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪਾਤਰ-ਚਿਤਰਨ 1.ਬੰਬ ਕੇਸ 1.ਬੰਬ ਕੇਸ ਇਕਾਂਗੀਦਾ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂਲਿਖੋ। 2.ਵੀਰਾਂ ਵਾਲੀਦਾਪਾਤਰ-ਚਿਤਰਨਕਰੋ।	1-6(ਦਿਨ)
ਵਿਆਕਰਨ	ਭਾਸ਼ਾਵੰਨਗੀਆਂ ਵਾਕਅੰਸ਼ਦੀਪਰਿਭਾਸ਼ਾ ਵਾਕਅੰਸ਼ਦਾਵਰਗੀਕਰਨ ਕਲਾਸਵਿੱਚਵਿਆਕਰਨਦਾਟੈਸਟਵੀਲਿਆਜਾਵੇਗਾ। ਵਿਦਿਆਰਥੀਆਂਨੂੰਸ਼ਬਦਜੋੜਾਂਦਾਅਭਿਆਸਵੀਕਰਵਾਇਆਜਾਵੇਗਾ।	1-6(ਦਿਨ) 1-2(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	1.ਵਾਕਅੰਸ਼ ਉੱਤੇ ਨੋਟ ਲਿਖੋ	1-2(ਦਿਨ)

ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ ਕਵਿ-ਕੀਰਤੀ ਨਿਸ਼ਕਰਸ਼	1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪ੍ਰਸੰਗ ਸਹਿਤਵਿਆਖਿਆ 4.ਸੰਦੇਸ਼ 1,ਅਮ੍ਰਿਤਾ ਪ੍ਰੀਤਮਅਤੇਪ੍ਰੀਤਮਸਿੰਘਸਫੀਰਦੀਆਂਸੱਤਕਵਿਤਾਵਾਂਪੜਾਈਆਂਜਾਣਗੀਆਂ। ਕਵਿਤਾਵਾਂਦੀਪ੍ਰਸੰਗਸਹਿਤਵਿਆਖਿਆਕਰਨੀਹੈ।	1-8(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ ਆਧੁਨਿਕਇਕਾਂਗੀ ਨਿਸ਼ਕਰਸ਼	1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪਾਤਰ-ਚਿਤਰਨ 1.ਕਵਿਤਾਵਾਂ 2.ਜਫਰਨਾਮਾਂ 3.ਬੰਬਕੇਸ ਇਹਨਾਂਦੇਕਲਾਸਟੈਸਟ ਲਏ ਜਾਣਗੇ।	1-6(ਦਿਨ)
ਵਿਆਕਰਨ ਨਿਸ਼ਕਰਸ਼	ਭਾਸ਼ਾਵੰਨਗੀਆਂ ਉਪਵਾਕਦੀਪਰਿਭਾਸ਼ਾ ਉਪਵਾਕਦਾਵਰਗੀਕਰਨ ਵਾਕਅਤੇਉਪਵਾਕਅੰਤਰਅਤੇਸੰਬੰਧ। ਉਪਵਾਕਉੱਤੇ ਨੋਟ ਲਿਖੋ। ਅਕਤੂਬਰਮਹੀਨੇਵਿੱਚਪੇਪਰ ਲਏ ਜਾਣਗੇ।	1-6(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ ਕਵਿ-ਕੀਰਤੀ ਨਿਸ਼ਕਰਸ਼	1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪ੍ਰਸੰਗ ਸਹਿਤਵਿਆਖਿਆ 4.ਸੰਦੇਸ਼ 1.ਬਾਵਾ ਬਲਵੰਤਦੀਆਂਪੰਜਕਵਿਤਾਵਾਂਪੜਾਈਆਂਜਾਣਗੀਆਂ। ਕਵਿਤਾਵਾਂਦੇਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਕਰਵਾਏਜਾਣਗੇ।	1-6(ਦਿਨ)
ਵਿਆਕਰਨ ਨਿਸ਼ਕਰਸ਼	ਭਾਸ਼ਾਵੰਨਗੀਆਂ ਵਾਕਦੀਪਰਿਭਾਸ਼ਾ ਵਾਕਦਾਵਰਗੀਕਰਨ ਵਾਕਅਤੇਉਪਵਾਕਅੰਤਰਅਤੇਸੰਬੰਧ। ਵਾਕਉੱਤੇ ਨੋਟ ਲਿਖੋ। ਨਵੰਬਰਮਹੀਨੇਵਿੱਚਪੇਪਰ ਲਏ ਜਾਣਗੇ।	1-6(ਦਿਨ)

LESSON PLAN B.SC(ECONOMICS) SEMESTER-III

BASIC PUNJABI

ਜਾਣ - ਪਛਾਣ	<p>ਇਸ ਵਿਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੰਜਾਬੀ ਦੀ ਮੁਢਲੀ ਸਿਖਿਆ ਦਿੱਤੀ ਜਾਵੇਗੀ ਤਾਂ ਜੋ ਉਹ ਪੰਜਾਬੀ ਦੀ ਵਰਣਮਾਲਾ ਤੇ ਸ਼ਬਦ-ਬਣਤਰ ਨੂੰ ਚੰਗੀ ਤਰਾਂ ਸਮਝ ਸਕਣ।</p> <p>1. ਵਿਆਕਰਨਕ ਇਕਾਈਆਂ ਦੀ ਪਛਾਣ ਤੇ ਵਰਤੋਂ 2. ਵਾਕ ਅੰਸ਼ ਤੇ ਵਰਗੀਕਰਨ 3. ਉਪਵਾਕ ਤੇ ਵਰਗੀਕਰਨ</p>	ਸਮਾਂ
ਵਿਆਕਰਨ		1-3(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<p>ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਵਾਕ ਅੰਸ਼ ਤੇ ਨੋਟ ਲਿਖਣ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਕਲਾਸ ਵਿੱਚ ਉਪਵਾਕ ਦਾ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ।</p>	1-3(ਦਿਨ) 1-6(ਦਿਨ)
ਵਿਆਕਰਨ	<p>1. ਵਾਕ ਤੇ ਵਰਗੀਕਰਨ 2. ਨਿੱਜੀ ਚਿੱਠੀ ਪੱਤਰ. ਦਫਤਰੀ ਚਿੱਠੀ ਪੱਤਰ</p>	1-6(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<p>1. ਵਾਕ ਉੱਤੇ ਨੋਟ ਲਿਖਣ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। 2. ਨਿੱਜੀ ਚਿੱਠੀ ਪੱਤਰ ਦਾ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ।</p>	1-6(ਦਿਨ)
ਵਿਆਕਰਨ	<p>1. ਅਖਾਣ ਮੁਹਾਵਰੇ 2. ਪੈਰਾ ਅਧਾਰਿਤ ਪ੍ਰਸ਼ਨਾਂ ਦੇ ਉੱਤਰ (ਅਣਡਿੱਠਾ ਪੈਰਾ) 3. ਪੈਰਾ ਰਚਨਾ</p>	1-3(ਦਿਨ) 1-3(ਦਿਨ) 1-3(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<p>1. ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਪੈਰਾ ਰਚਨਾ ਲਿਖਣ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਕਲਾਸ ਵਿੱਚ ਅਖਾਣ ਮੁਹਾਵਰਿਆਂ ਦਾ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ।</p>	
ਵਿਆਕਰਨ	<p>1. ਸੰਖੇਪ ਰਚਨਾ 2. ਨਿੱਜੀ ਚਿੱਠੀ ਪੱਤਰ. ਦਫਤਰੀ ਚਿੱਠੀ ਪੱਤਰ</p>	1-3(ਦਿਨ) 1-6(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<p>1. ਸੰਖੇਪ ਰਚਨਾ ਉੱਤੇ ਨੋਟ ਲਿਖਣ ਲਈ ਦਿੱਤਾ ਜਾਵੇਗਾ। ਦਫਤਰੀ ਚਿੱਠੀ ਪੱਤਰ ਦਾ ਕਲਾਸ ਵਿੱਚ ਟੈਸਟ ਲਿਆ ਜਾਵੇਗਾ।</p>	
ਵਿਆਕਰਨ	<p>1. ਵਾਕ, ਉਪਵਾਕ, ਵਾਕ ਅੰਸ਼ 2. ਸੰਖੇਪ ਰਚਨਾ, ਪੈਰਾ ਰਚਨਾ 3. ਅਣਡਿੱਠਾ ਪੈਰਾ</p>	1-3(ਦਿਨ) 1-3(ਦਿਨ) 1-3(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<p>ਪੇਪਰਾਂ ਦੀ ਤਿਆਰੀ ਕਰਵਾਈ ਜਾਵੇਗੀ।</p>	

LESSON PLAN B.SC.(ECONOMICS) SEMESTER-III

ENGLISH

July 2017

Contents	Books	Plan	Activity	Assignment
1. Vocabulary & textual Ex.	Making connections	First half of Unit 1	Group discussions	Surprise tests on regular basis
2. Poetry	Moments in time	Poem no. 1 & 2		
3. Grammar	English Grammar in use by Murphy	Unit 98 to 101		

August 2017

Books	Plan	Activity	Assignment
Making Connections	Completion of Unit 1	Critical appreciation of poems to be discussed	Long questions based on poems
Moments in time	Poem no. 3		
English Grammar in use by Murphy	Unit 102 to 120		

September 2017

Books	Plan	Activity	Assignment
Making connections	First half of Unit 2	Class tests	Discussion of grammar in class
Moments in time	Poems no. 4 and 5		
English Grammar in use by Murphy	Unit 102 to 120		

October 2017

Books	Plan	Activity	Assignment
Making connections	Completion of Unit 2	Discussion of themes of all the poems	Class tests of full syllabi
Moments in time	Poem 6		
English Grammar in use by Murphy	Unit 132 to 145		

November 2017

Books	Plan	Activity
3 Books	Discussion on Composition	Class tests
	University examination preparation	Revision

LESSON PLAN B.SC(ECONOMICS) SEMESTER-V
MATHEMATICS
PAPER-I: DYNAMICS

Topic-I

Topic	Resources	Time
Rectilinear motion with uniform acceleration	S.R.Gupta: A text book of Dynamics 2. F. Chorlton: Dynamics.	One Week
Body of the lesson: Rectilinear motion in a straight line with uniform acceleration		
Conclusion: Students will be able to learn to solve the problems of Rectilinear motion in a straight line with uniform acceleration		

Topic-II

Topic	Resources	Time
Newton's laws of motion	S.R.Gupta: A text book of Dynamics F. Chorlton: Dynamics.	Four Weeks
Body of the lesson: Newton's laws of motion. Motion of two particles connected by a string. Motion along a smooth inclined plane		
Conclusion: Students will be able to understand Newton's laws of motion Assignment on questions related to motion of two particles connected by a string, motion along a smooth inclined plane		

Topic-III

Topic	Resources	Time
Variable acceleration. Simple Harmonic Motion	S.R.Gupta: A text book of Dynamics F. Chorlton: Dynamics. S.L. Loney: An Elementary Treatise on the Dynamics of a Particle and of Rigid Bodies, Cambridge University Press, 1956.	Two Weeks
Body of the lesson: Rectilinear motion in a straight line with Variable acceleration. Simple Harmonic Motion		
Conclusion: Students will be able to learn the topics of variable acceleration Assignment on questions of Simple Harmonic Motion		

Topic-IV

Topic	Resources	Time
Projectiles	S.R.Gupta: A text book of Dynamics F. Chorlton: Dynamics.	Three Weeks
Body of the lesson: Curvilinear motion of particle in a plane, Definition of velocity and acceleration, projectiles		
Conclusion: Students will be able to understand Curvilinear motion of particle in a plane		

Topic-V

Topic	Resources	Time
Oscillations Work, Power and Energy	S.R.Gupta: A text book of Dynamics 2. F. Chorlton: Dynamics. 3. S.L. Loney: An Elementary Treatise on the Dynamics of a Particle and of Rigid Bodies, Cambridge University Press, 1956.	Three Week
Body of the lesson: Oscillations: Free Vibrations, Simple Pendulum, Conical Pendulum. Work, Power and Energy: Kinetic and Potential energy, Conservative forces. Theorem of conservation of energy. Work done against gravity.		
Conclusion: Students will be able to learn the concept of Oscillations and Work, Power and Energy		

LESSON PLAN B.SC. (ECONOMICS) SEMESTER-V
MATHEMATICS
PAPER–II: NUMBER THEORY

TOPIC-I

Topic	Resources	Time
The division algorithm The Euclidean algorithm	D. Burton: Elementary Number Theory, Sixth Edition, McGraw-Hill. Niven and Zuckerman: An Introduction to Number Theory, Wiley 1972	Three Weeks
Body of the lesson: Divisibility & its properties, use of principle of mathematical induction, The division algorithm, The greatest common divisor: Definition & various properties, Euclid's lemma least common multiple, The Euclidean algorithm, the method of calculating gcd		
Conclusion: Students will be able to learn the basics of the basic concepts of divisibility & greatest common divisor Assignment on greatest common divisor, least common multiple		

Topic-II

Topic	Resources	Time
Prime numbers, Linear congruences	D. Burton: Elementary Number Theory, Sixth Edition, McGraw-Hill. Niven and Zuckerman: An Introduction to Number Theory, Wiley 1972	Three Weeks
Body of the lesson: The Diophantine equation $ax + by = c$ & the method of solving Diophantine equation, Prime numbers and their distribution, Euclid's theorem, Bertrand's conjecture, Goldbach's conjecture, The fundamental theorem of arithmetic, Basic properties of congruences, Linear congruences, Special divisibility tests, Residue modulo n , complete residue system, reduced residue modulo n , congruent & incongruent solutions, method of solving linear congruences		
Conclusion: Students will be able to learn prime numbers & various properties and method of solving linear congruences		

Topic-III

Topic	Resources	Time
Linear congruences	D. Burton: Elementary Number Theory, Sixth Edition, McGraw-Hill. Niven and Zuckerman: An Introduction to Number Theory, Wiley 1972	Two Weeks
Body of the lesson: Chinese remainder theorem, The Fermat's theorem, Wilson's theorem, solving various congruences with the help of above theorems		
Conclusion: Students will be able to solve various congruences Assignment on Linear congruences		

Topic-IV

Topic	Resources	Time
Arithmetic functions	D. Burton: Elementary Number Theory, Sixth Edition, McGraw-Hill. Niven and Zuckerman: An Introduction to Number Theory, Wiley 1972	Two Weeks
Body of the lesson: σ and τ functions, , Mobius function, Mobius Inversion formula, Greatest integer function, Multiplicative function, E. Merter's Lemma		
Conclusion: Students will be able to learn various arithmetic functions Assignment on arithmetic functions		

Topic-V

Topic	Resources	Time
Euler's Phi function	D. Burton: Elementary Number Theory, Sixth Edition, McGraw-Hill. Niven and Zuckerman: An Introduction to Number Theory, Wiley 1972	Two Week
Body of the lesson: Euler's function, Euler's Phi function, Euler's theorem, some properties of the Phi Function, solving linear congruences using Euler's theorem , Gauss theorem		
Conclusion: Students will learn solve some congruences using Euler's theorem Assignment on Euler' function .		

LESSON PLAN B.SC (ECONOMICS) SEMESTER-V

QUANTITATIVE TECHNIQUES

Topic	Notes/Strategies/Resources	Time
Sampling Distributions	The topic will help the students to have in depth knowledge about the sampling distributions and their importance	2.5 weeks
Body of Lesson: <ul style="list-style-type: none"> • Derivation of Z distribution • Derivation of the properties of Z distribution • Derivation of t distribution • Derivation of the properties of t-distribution 	Students will be given notes pertaining to the theory of the chapter. Importance of both the distributions will be discussed. The books consulted will be “Statistics : Theory & Practical” by Murry and Spiegel “ Fundamentals of Mathematical Statistics” by Kapur and Gupta	
Conclusion	Assignments will be given. Tests will be conducted.	

Topic	Notes/Strategies/Resources	Time
Sampling Distributions-Contd.	The topic will help the students to have in depth knowledge about the sampling distributions and their importance	2.5 weeks
Body of Lesson: <ul style="list-style-type: none"> • Derivation of chi square distribution • Derivation of the properties of chi square distribution • Derivation of F distribution • Derivation of the properties of F distribution 	Students will be given notes pertaining to the theory of the chapter. Importance of both the distributions will be discussed. The books consulted will be “Statistics : Theory & Practical” by Murry and Spiegel “ Fundamentals of Mathematical Statistics” by Kapur and Gupta	
Conclusion	Assignments will be given. Tests will be conducted.	

Topic	Notes/Strategies/Resources	Time
Statistical Inference	The topic will help the students to have in depth knowledge about the concept of a good estimator. Hypothesis testing will also be studied in detail.	3 weeks
Body of Lesson: <ul style="list-style-type: none"> • Point and interval Estimation • Maximum Likelihood Method of Estimation • Its applications for Binomial, Poisson and Normal distribution • Concepts of Null and Alternative hypothesis • One and two tailed tests • Critical region 	Students will be given notes pertaining to the theory of the chapter. Numerical problems will be taken in the class. The books consulted will be “Statistics : Theory & Practical” by Murry and Spiegal “Fundamentals of Mathematical Statistics” by Kapur and Gupta	
Conclusion	Assignments will be given. Tests will be conducted.	

Tests of significance based on normal deviate(Z) and t- statistics	The topic will help the students to have in depth knowledge about the test of significance. Practice of numerical based on these tests will be done in the class.	3 weeks
Body of Lesson: <ul style="list-style-type: none"> • Tests of significance based on normal deviate • Tests of significance based on t- statistics 	Students will be given notes pertaining to the theory of the chapter. Numerical problems will be taken in the class. The books consulted will be “Statistics : Theory & Practical” by Murry and Spiegal “Fundamentals of Mathematical Statistics” by Kapur and Gupta	
Conclusion	Assignments will be given. Tests will be conducted.	

Tests of significance based on chi square and F- statistics	The topic will help the students to have in depth knowledge about the test of significance. Practice of numerical based on these tests will be done in the class.	2.5 weeks
Body of Lesson:	Students will be given notes pertaining to the	

<ul style="list-style-type: none"> • Tests of significance based on normal deviate • Tests of significance based on t-statistics 	<p>theory of the chapter. Numerical problems will be taken in the class. The books consulted will be “Statistics : Theory & Practical” by Murry and Spiegel “ Fundamentals of Mathematical Statistics” by Kapur and Gupta</p>	
Conclusion	Assignments will be given. Tests will be conducted.	

Analysis of Variance	The topic will help the students to have in depth knowledge about the techniques of analyzing variance. Practice of numerical based on one way and two way classified data will be done in the class.	2.5 weeks
<p>Body of Lesson:</p> <ul style="list-style-type: none"> • Introduction of the topic • Assumptions • Techniques of Analysis of Variance • One way ANOVA • Two way ANOVA 	<p>Students will be given notes pertaining to the theory of the chapter. Numerical problems will be taken in the class. The books consulted will be “Statistics : Theory & Practical” by Murry and Spiegel “ Fundamentals of Mathematical Statistics” by Kapur and Gupta</p>	

LESSON PLAN B.SC (ECONOMICS) SEMESTER- V

DEVELOPMENT ECONOMICS

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Economic Development	This is an introductory topic which will enable the students to have an insight into this specialized paper.	
Body of Lesson <ul style="list-style-type: none"> • Meaning & Definition • Measurement • Economic and Non-Economic Determinants 	<ul style="list-style-type: none"> • Notes will be provided to the students as to how to write the introduction of different questions which may be general or analytical as well as how to conclude them. • Text Book –Development Economics by T.R.Jain • Reference book- Economics of Development by Taneja and Meier 	
Conclusion	Students will be preparing assignments. Regular tests will be conducted .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Nature of Underdevelopment	This topic develops the analytical abilities of the students.	
Body of Lesson <ul style="list-style-type: none"> • Meaning & Definition • Characteristics • Problems and Measures • Concept of Sustainable Development 	<ul style="list-style-type: none"> • Notes will be provided to the students as to how to write the introduction of different questions which may be general or analytical as well as how to conclude them. • Text Book –Development Economics by T.R.Jain • Reference book- Economics of Development by Taneja and Meier 	
Conclusion	Students will be preparing assignments. Regular tests will be conducted .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Dualism	The students understand the real problems of countries especially UDCs..	
Body of Lesson <ul style="list-style-type: none"> • Meaning & Definition • Social Dualism • Features and Implications 	<ul style="list-style-type: none"> • Notes will be provided to the students as to how to write the introduction of different questions which may be general or analytical as well as how to conclude them. 	

<ul style="list-style-type: none"> • Technological Dualism • Features and Implications • Lewis' Model • Problems of Unemployment • Disguised Unemployment 	<ul style="list-style-type: none"> • Text Book –Development Economics by T.R.Jain • Reference book- Economics of Development by Taneja and Meier 	
Conclusion	Students will be preparing assignments. Regular tests will be conducted .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Models of Growth	This is a paper of advanced economics in which students are exposed to various models designed by different economists from time to time as to how an UDC can come on the path of economic development.	
Body of Lesson <ul style="list-style-type: none"> • Classical Model • Marxian Model • Schumpeter's Model • Harrod-Domar Model • Solow's Model 	<ul style="list-style-type: none"> • Notes will be provided to the students as to how to write the introduction of different questions which may be general or analytical as well as how to conclude them. • Text Book –Development Economics by T.R.Jain • Reference book- Economics of Development by Taneja and Meier 	
Conclusion	Students will be preparing assignments. Regular tests will be conducted .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Theories of Growth-Strategies of Economic Development	This topic provides an extensive comprehension of various theories developed for understanding how path of economic development can be treaded.	
Body of Lesson <ul style="list-style-type: none"> • Rostow's Theory of Growth • Balanced Theory • Unbalanced Theory • Theory of Big Push • Leibenstein's CMET • Export Promotion & Import Substitution 	<ul style="list-style-type: none"> • Notes will be provided to the students as to how to write the introduction of different questions which may be general or analytical as well as how to conclude them. • Text Book –Development Economics by T.R.Jain • Reference book- Economics of Development by Taneja and Meier 	
Conclusion	Students will be preparing assignments. Regular tests will be conducted.	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Capital Formation	This topic highlights the importance of capital in economic development.	
Body of Lesson <ul style="list-style-type: none"> • Meaning & Sources • Choice of Techniques 	<ul style="list-style-type: none"> • Notes will be provided to the students as to how to write the introduction of different questions which may be general or analytical as well as how to conclude them. • Text Book –Development Economics by T.R.Jain • Reference book- Economics of Development by Taneja and Meier 	
Conclusion	Students will be preparing assignments. Regular tests will be conducted .	

TOPIC	NOTES/ STRATEGIES/ RESOURCES	TIME
Role of Planning in UDCs	This topic exposes the students to the importance of planning for an economy.	
Body of Lesson <ul style="list-style-type: none"> • Meaning, Definition • Need of Planning • Objectives of Planning • Strategy • Types of Planning • Problems of Planning 	<ul style="list-style-type: none"> • Notes will be provided to the students as to how to write the introduction of different questions which may be general or analytical as well as how to conclude them. • Text Book –Development Economics by T.R.Jain • Reference book- Economics of Development by Taneja and Meier 	
Conclusion	Students will be preparing assignments. Regular tests will be conducted .	

LESSON PLAN B.SC.(ECONOMICS) SEMESTER- V

DBMS

Topic	Notes/Strategies/ Resources	Time
Database	Students will learn about <ul style="list-style-type: none">• what is data, information• Database, DBMS• Components of database• Manual File system• Traditional File System• Advantage and disadvantage of database system• Database languages,• Three level architecture of database• DBA, Responsibilities of DBA. Database Concepts by Korth	10 Days
Data model	Students will gain knowledge about different models <ul style="list-style-type: none">• Hierarchical Model• Network Model• Relational Model• Concept of keys• Integrity Constraints Database Concepts by CJ Date	7 Days
Relational Algebra and Calculus	Students will learn about what <ul style="list-style-type: none">• Traditional operators• Special Operators• Domain Calculus• Tuple Calculus Database Concepts by Korth	10 Days
Normalization	Students will study about <ul style="list-style-type: none">• what is Normalisation• Need for normalization• First Normal Form• Second Normal Form• Third Normal Form• BCNF• Fourth Normal Form• Fifth Normal Form Database Concepts by CJ Date	10 Days

Database Security	<p>Students will gain knowledge about</p> <ul style="list-style-type: none"> • Security • Integrity • Protection • Recovery(Log based and shadow Paging) <p>Database Concepts by CJ Date</p>	8 days
Concurrency Control	<p>Students will be acquainted with</p> <ul style="list-style-type: none"> • Need for concurrent access • Locking • Graph based • Time stamp based technique <p>Database Concepts by Korth</p>	10 Days
SQL	<ul style="list-style-type: none"> • Introduction to Oracle 10 g • Features of Oracle 10 g • SQL – DDL, DML, DCL. • Join methods & Sub query, • Union, Intersection • Built in Functions, • View • Security amongst users • Sequences, • indexing object <p>Database Concepts by Korth</p>	15 Days
PL/SQL	<ul style="list-style-type: none"> • Introduction to PL/SQL. • Cursors – Implicit & Explicit. • Procedures, • Functions • Packages. • Database Triggers. <p>Database Concepts by Korth</p>	15 Days

LESSON PLAN B.SC.(ECONOMICS) SEMESTER -V

GENERAL PUNJABI

<p>ਜਾਣ - ਪਛਾਣ</p> <p>ਜੱਗ-ਬੀਤੀਹੱਡ-ਬੀਤੀ</p> <p>ਨਿਸ਼ਕਰਸ਼</p>	<p>ਇਸਕਿਤਾਬਵਿਚੋਂ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਕਹਾਣੀਆਂ ਪੜ੍ਹਾਈਆਂ ਜਾਣੀਆਂ ਹਨ।</p> <p>1. ਨਿਕੀ ਕਹਾਣੀ ਦੀ ਜਾਣ-ਪਛਾਣ। 2. ਹਲਵਾਹ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਤੇ ਇਸ ਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨ ਵੀ ਕਰਵਾਏ ਜਾਣਗੇ। 3. ਕੁਲਫੀ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਤੇ ਇਸ ਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨ ਵੀ ਕਰਵਾਏ ਜਾਣਗੇ।</p> <p>1. ਹਲਵਾਹ 2. ਕੁਲਫੀ ਕਹਾਣੀ ਦਾ ਸਾਰ।</p>	<p>ਸਮਾਂ</p> <p>1-6(ਦਿਨ)</p>
<p>ਗੱਦ-ਪ੍ਰਵਾਹ</p> <p>ਨਿਸ਼ਕਰਸ਼</p>	<p>1. ਗੰਡਾ ਸਿੰਘ 2. ਨਾਟਕ ਦੀ ਨਕਲ ਦਾ ਦੀ ਇਨ੍ਹਾਂ ਦਾ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਤੇ ਪਾਤਰ-ਚਿਤਰਨ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਇਸ ਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨ ਵੀ ਕਰਵਾਏ ਜਾਣਗੇ।</p> <p>1. ਗੰਡਾ ਸਿੰਘ ਦਾ ਪਾਤਰ ਚਿਤਰਨ। 2. ਨਾਟਕ ਦੀ ਨਕਲ ਦਾ ਦੀ ਵਿਸ਼ਾ-ਵਸਤੂ ਲਿਖੋ।</p>	<p>1-6(ਦਿਨ)</p>
<p>ਵਿਆਕਰਨ</p> <p>ਨਿਸ਼ਕਰਸ਼</p>	<p>ਨਾਂਵ ਵਾਕਾਂਸ਼</p> <p>1. ਨਾਂਵ ਵਾਕਾਂਸ਼ ਦੀ ਪਰਿਭਾਸ਼ਾ 2. ਨਾਂਵ ਵਾਕਾਂਸ਼ ਦੇ ਤੱਤ 3. ਨਾਂਵ ਵਾਕਾਂਸ਼ ਦਾ ਵਰਗੀਕਰਨ</p> <p>1. ਨਾਂਵ ਵਾਕਾਂਸ਼ ਉੱਤੇ ਨੋਟ ਲਿਖੋ 2. ਕਲਾਸ ਵਿੱਚ ਵਿਦਿਆਰਥੀਆਂ ਨੂੰ ਦੋ ਹਿੱਸਿਆਂ ਵਿੱਚ ਵੰਡ ਕੇ ਵਿਆਕਰਨ ਸੰਬੰਧੀ ਪ੍ਰਤੀਯੋਗਤਾ ਕਰਵਾਈ ਜਾਵੇਗੀ।</p>	<p>1-6(ਦਿਨ)</p>
<p>ਪਾਠਕ੍ਰਮ ਸੰਬੰਧੀ ਪ੍ਰਸ਼ਨ</p> <p>ਜੱਗ-ਬੀਤੀਹੱਡ-ਬੀਤੀ</p> <p>ਨਿਸ਼ਕਰਸ਼</p>	<p>1. ਸਾਰ 2. ਵਿਸ਼ਾ-ਵਸਤੂ 3. ਛੋਟੇ ਪ੍ਰਸ਼ਨ ਉੱਤਰ</p> <p>1. ਸਫੈਦਪੋਸ਼ ਕਹਾਣੀ ਦਾ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਤੇ ਇਸ ਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨ ਵੀ ਕਰਵਾਏ ਜਾਣਗੇ। 2. ਇਕ ਸਧਾਰਨ ਆਦਮੀ ਕਹਾਣੀ ਦਾ ਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂ ਤੇ ਇਸ ਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨ ਵੀ ਕਰਵਾਏ ਜਾਣਗੇ।</p> <p>1. ਸਫੈਦਪੋਸ਼ ਕਹਾਣੀ ਦਾ ਸਾਰ 2. ਇਕ ਸਧਾਰਨ ਆਦਮੀ ਕਹਾਣੀ ਦਾ ਵਿਸ਼ਾ-ਵਸਤੂ ਲਿਖੋ।</p>	<p>1-6(ਦਿਨ)</p>

ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ	<ol style="list-style-type: none"> 1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪਾਤਰ-ਚਿਤਰਨ 4. ਛੋਟੇ ਪ੍ਰਸ਼ਨਉੱਤਰ 	
ਗੱਦ-ਪ੍ਰਵਾਹ	<ol style="list-style-type: none"> 1.ਪੂਰਨ ਸਿੰਘ 2.ਨਿੱਕੀ ਕਹਾਣੀਦਾਬਾਦਸ਼ਾਹ <p>ਇਨ੍ਹਾਂਦਾਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂਤੇਪਾਤਰ-ਚਿਤਰਨਵਿਦਿਆਰਥੀਆਂਨੂੰਇਸਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨਵੀਕਰਵਾਏਜਾਣਗੇ।</p>	1-6(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<ol style="list-style-type: none"> 1.ਪੂਰਨ ਸਿੰਘਦਾਪਾਤਰਚਿਤਰਨ। 2.ਨਿੱਕੀ ਕਹਾਣੀਦਾਬਾਦਸ਼ਾਹਵਿਸ਼ਾ-ਵਸਤੂਲਿਖੋ। 	
ਵਿਆਕਰਨ	<p>ਮੇਲਤੇਅਧਿਕਾਰ</p> <ol style="list-style-type: none"> 1.ਮੇਲ ਤੇਅਧਿਕਾਰਦੀਪਰਿਭਾਸ਼ਾ 2.ਮੇਲਤੇਅਧਿਕਾਰਦੇਤੱਤ 3. ਮੇਲਤੇਅਧਿਕਾਰਵਰਗੀਕਰਨ 	
ਨਿਸ਼ਕਰਸ਼	<ol style="list-style-type: none"> 1.ਮੇਲ ਤੇਅਧਿਕਾਰਉੱਤੇ ਨੋਟ ਲਿਖੋ। 2.ਕਲਾਸ ਵਿੱਚਵਿਦਿਆਰਥੀਆਂਨੂੰ ਦੋ ਹਿੱਸਿਆਂਵਿੱਚਵੰਡਕੇਵਿਆਕਰਨਸੰਬੰਧੀਪ੍ਰਤੀਯੋਗਤਾਕਰਵਾਈਜਾਵੇਗੀ। 	1-6(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ	<ol style="list-style-type: none"> 1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3. ਛੋਟੇ ਪ੍ਰਸ਼ਨਉੱਤਰ 	
ਜੱਗ-ਬੀਤੀਹੱਡ-ਬੀਤੀ	<ol style="list-style-type: none"> 1.ਕਸ਼ਟ ਨਿਵਾਰਨਕਹਾਣੀਦਾਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂਤੇਇਸਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨਵੀਕਰਵਾਏਜਾਣਗੇ। 2.ਪੈਰ੍ਹਾ ਰਚਨਾਕਰਵਾਈਜਾਵੇਗੀ। 	1-3(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<ol style="list-style-type: none"> 1.ਤਿੰਨ ਪੈਰ੍ਹਾਰਚਨਾਕਰਨਲਈਦਿੱਤੇਜਾਣਗੇ। 	1-3(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ	<ol style="list-style-type: none"> 1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪਾਤਰ-ਚਿਤਰਨ 4. ਛੋਟੇ ਪ੍ਰਸ਼ਨਉੱਤਰ 	
ਗੱਦ-ਪ੍ਰਵਾਹ	<ol style="list-style-type: none"> 1.ਬਾਤਾਂ ਮੋਹਨਸਿੰਘਕੀਆਂ 	1-6(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	<ol style="list-style-type: none"> 1.ਬਾਤਾਂਮੋਹਨਸਿੰਘਕੀਆਂਦਾਸਾਰ/ਵਿਸ਼ਾ-ਵਸਤੂਤੇਪਾਤਰ-ਚਿਤਰਨਵਿਦਿਆਰਥੀਆਂਨੂੰਇਸਸੰਬੰਧੀ ਛੋਟੇ ਪ੍ਰਸ਼ਨਵੀਕਰਵਾਏਜਾਣਗੇ। 	

ਵਿਆਕਰਨ	1.ਧੁਨੀ ਵਿਉਂਤ (ੳ) ਧੁਨੀਵਿਉਂਤਦੀਪਰਿਭਾਸ਼ਾ (ਅ) ਧੁਨੀਵਿਉਂਤਦਾਵਰਗੀਕਰਨ 2.ਅਨੁਵਾਦ	1-5(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	1.ਧੁਨੀ ਵਿਉਂਤਉਤੇ ਨੋਟ ਲਿਖੋ। 2.ਕਲਾਸ ਵਿੱਚਵਿਦਿਆਰਥੀਆਂਨੂੰ ਦੋ ਹਿੱਸਿਆਂਵਿੱਚਵੰਡਕੇਵਿਆਕਰਨਸੰਬੰਧੀਪ੍ਰਤੀਯੋਗਤਾਕਰਵਾਈਜਾਵੇਗੀ। 3. ਅੰਗਰੇਜੀਦੇਪੈਰੇਦੇਕੇਪੰਜਾਬੀਵਿੱਚਅਨੁਵਾਦਕਰਵਾਇਆਜਾਵੇਗਾ। 4. ਅਕਤੂਬਰਮਹੀਨੇਵਿੱਚਹੋਣਵਾਲੇਪੇਪਰਾਂਦੀਤਿਆਰੀਵੀਕਰਵਾਈਜਾਵੇਗੀ। 5.ਕਲਾਸ ਵਿੱਚਵਿਦਿਆਰਥੀਆਂਤੋਂਟੈਸਟਵੀ ਲਏ ਜਾਣਗੇ।	1-2(ਦਿਨ) 1-2(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ	1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3. ਛੋਟੇ ਪ੍ਰਸ਼ਨਉੱਤਰ	
ਜੱਗ-ਬੀਤੀਹਡ-ਬੀਤੀ	1.ਭਾਗਾਂ ਦੀ ਡੋਰ 2.ਅੰਗਰੇਜੀਤੋਂਪੰਜਾਬੀਵਿੱਚਅਨੁਵਾਦ	1-3(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	1.ਭਾਗਾਂ ਦੀ ਡੋਰ ਕਹਾਣੀਦਾਵਿਸ਼ਾਵਸਤੂਲਿਖੋ। 2. ਅੰਗਰੇਜੀਤੋਂਪੰਜਾਬੀਵਿੱਚਅਨੁਵਾਦਕਰਨਲਈਦਿੱਤਾਜਾਵੇਗਾ।	1-3(ਦਿਨ)
ਪਾਠਕ੍ਰਮਸੰਬੰਧੀਪ੍ਰਸ਼ਨ	1.ਸਾਰ 2.ਵਿਸ਼ਾ-ਵਸਤੂ 3.ਪਾਤਰ-ਚਿਤਰਨ 4. ਛੋਟੇ ਪ੍ਰਸ਼ਨਉੱਤਰ	
ਗੱਦ-ਪ੍ਰਵਾਹ	1.ਨੰਗੀ ਮੁਸਕਾਨ 2. ਪੈਰਾਰਚਨਾ	
ਨਿਸ਼ਕਰਸ਼	1.ਸ਼ਿਵ ਕੁਮਾਰਦਾਪਾਤਰਦਾਪਾਤਰਚਿਤਰਨ। 2.ਇਸ ਦੇ ਛੋਟੇ ਪ੍ਰਸ਼ਨਵੀਕਰਵਾਏਹੋਣਗੇ।	1-6(ਦਿਨ)
ਨਿਸ਼ਕਰਸ਼	1.ਨਾਂਵ ਵਾਕੰਸ਼ 2.ਮੇਲ ਤੇਅਧਿਕਾਰਦੇਕਲਾਸਟੈਸਟ ਲਏ ਜਾਣਗੇ। ਨਵੰਬਰਮਹੀਨੇਵਿੱਚਰਵੀਜਨਕਰਵਾਈਜਾਵੇਗੀ।	1-6(ਦਿਨ)

LESSON PLAN B.SC(ECONOMICS) SEMESTER-V

ENGLISH

July 2017

Contents	Books	Plan	Activity	Assignment
1.Play	All my sons	Reading Act 1	Film based on the play to be shown	Critical appreciation ,theme of the poems
2.Poetry	Poems of nature and culture	Text reading and explanation		
3.Grammar &Writing Skills	Letters, Resume, Report Writing etc	Formats and practice		

August 2017

Books	Plan	Activity	Assignment
All my sons	Reading Act 2	Practice of Letter Writing	Questions based on Act 2
Poems of nature and culture	5 Poems	Discussion on themes of all the poems	
Letters etc	Resume Writing Informal Letter	Formats and practice	

September 2017

Books	Plan	Activity	Assignment
All my sons	Reading Act 3	Discussion of full play	Role playing by the students
Poems of nature and culture	7 poems	Class tests	
Letters etc	Report writing, business writing	Formats and practice	

October 2017

Books	Plan	Activity	Assignment
All my sons	Revision of play	Clearing of doubts	Class tests and revision
Poems of nature and culture	Revision of poems		
Letters Etc	Revision		

November 2017

Books	Plan	Activity
2 Books	Discussion on current affairs	Class tests
	University examination preparation	Revision