KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Mathematics (UA) – Bcom Name of the Teacher : S. DHANALAKSHMI Year 2021 - 2022

Title of the Paper : Statistics for Business Subject Code : 21UCT2A2 Semester : ~~ODD~~ / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of Staff	Signature of HOD
I From : 21.2.22 To : 17.4.22	Measures of central tendency – A.M. – Combined mean of two groups – Properties – median mode Measures of dispersion: Absolute and relative measures of dispersion – Range – Coefficient – Variances – S.D – Combined S.D for two groups – Coefficient of variation. Correlation – Types – Scatter diagram – Correlation Coefficient.	45 hrs		—		
II From : 18.4.22 To : 18.6.22	Regression – Uses of regression. population and samples: Definition of statistics Scope in Industry, Economics, management, Sciences, Social sciences – Population – Sample SRSWR, SRSWOR – Stratified Sampling. Data Condensation and Representation. Raw data – Attributes – variables – classification and frequency curve and ogive – Diagrams Bar and Subdivided – Pie Chart.	42 hrs		—		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Mathematics (UA) Name of the Teacher : S. DHANALAKSHMI Year 2021 - 2022

Title of the Paper : Control Theory Subject Code : 20PMAT13 Semester : ~~ODD~~ / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 21.2.22 To : 17.4.22	Motivation - Basic Results of Differential Equations - Fixed point methods - observability of linear systems - Non linear systems. Controllability of linear and Nonlinear systems Stability of linear systems	60 hrs	—	—		
II From : 18.4.22 To : 18.6.22	Perturbed linear systems - Non linear systems Stabilizability - Stabilization via linear feedback control - The Controllable Subspace - Stabilization with restricted feedback. Optimal Control - Linear Time varying systems - Time invariant systems - Non linear systems	57 hrs.	—	—		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Mathematics Name of the Teacher : Dr. V. Rajendran Year 2021 - 2022

Title of the Paper : Mathematics for Management - I Subject Code : 21UDA2A2 Semester : ~~ODD~~ / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 21/02/22 To : 17/04/22	UNIT-1 : Introduction – Mathematical formulation – Graphical method – Canonical & Standard forms of LPP – Simplex method – Standard forms of LPP. UNIT-2 : Transportation problems – Northwest Corner method – Matrix minima method – VAM method – Assignment Problems – Hungarian method – Unbalance Transportation & Assignment method. UNIT-3 : Game theory – Two person zero Sum game – The maximin minimax principle – Games without Saddle points.	45 hrs		–		
II From : 18/04/22 To : 18/06/22	Solution of 2×2 Rectangular games – Dominance property – UNIT-4 : Replacement Problems – Queuing Theory – Problems in (M/M/1) : (∞/FIFO). UNIT-5 : PERT – CPM – Introduction – Network – Distinction between PERT & CPM – Application and Advantages of Network techniques.	45 hrs.		–		

KONGUNADU ARTS AND SCIENCE COLLEGE (AUTONOMOUS), COIMBATORE - 29.

ACADEMIC PLANNING

Department : Mathematics Name of the Teacher : Dr. V. Rajendran Year 2021 - 2022

Title of the Paper : Object Oriented Programming with C++ - Theory Subject Code : 20PMAHL6 Semester : ~~ODD~~ / EVEN

Test No. & Period	Topics alloted	No. of hours required for completion	Dates & hrs of handling	Topics not covered, if any	Signature of	
					Staff	HOD
I From : 21/02/22 To : 18/04/22	UNIT-1 : Software Crisis – Software Evaluation – Procedure Oriented Programming – OOP – objects – classes – Data Abstraction – Encapsulation – Inheritance – Polymorphism – Basic concepts – Characteristic – Applications of OOP. UNIT-2 : Introduction – Tokens – keywords – Basic data types – Derived data types – Operators in C++ – Manipulators – Control structure UNIT-3 : Function prototyping – Inline functions – Function Overloading – C++ Streams – Unformatted I/o operations.	40 hrs		—		
II From : 19/04/22 To : 18/06/22	Formatted I/o operations – Formatting Flags – Managing output with manupulators. UNIT-4 : Classes and objects – member functions – Nesting member functions – Private, static member functions – Constructors – Destructors. UNIT-5 : Operator overloading – Inheritance – Types of Inheritance – Nesting of classes – Nesting based Programmes.	35 hrs.		—		