

Name of the Teacher		SANEHLATA
Subject	Programming in C and Numerical Methods	
Session	2023-2024 (Even Sem)	
Month	Week	Topic
Feb	3	Solution of algebraic and Transcendental eq ⁿ : Bisection method, Regula-falsi method
	4	Secant method, Newton-Raphson's Method Newton's iterative method.
March	1	Order of Convergence of above method Gauss-elimination method, Gauss-Jordan method
	2	Triangularization method. Crout's method, Cholesky decomposition method, Iterative method
	3	Jacobi's Method, Gauss-Seidal's Method Relaxation method. Programmer's model of computer
	4	Algorithms, Flowcharts, Data types, operators and expressions. Input/output fun ^c
April	1	Decision control structure: Decision statement logical of condition statement, Loops, Switch statement
	2	Functions, Preprocessors & Arrays, Strings, Standard string handling fun ^c , Arithmetic operators
	3	Structure, Pointers: Pointer type
	4	Revision & Test

Janeba
(SANEHLATA)
(Extension Lect in Maths)

LESSON PLAN

Name of the Teacher		SANIEH LATA
Subject	Number Theory And Trigonometry	
Session	2023-2024 Even Sem	
Month	Week	Topic
Feb	3	Divisibility, GCD, LCM, Fundamental th ^m of Arithmetic, Linear Congruences
	4	De Moivre's th ^m & Applications, Expansion of Trigonometrical fun ^c
March	1	Moebius function & Moebius inverse formula Direct Circular & hyperbolic fun ^c , properties
	2	Inverse Circular & hyperbolic function Logarithm of a complex quantity, Gregory series
	3	Wilson's th ^m and its Converse. Linear Diophantine equations in two variable
	4	Complete residue system and reduced residue system, Chinese Remainder th ^m
April	1	Quadratic residues, Legendre symbol Lemma of Gauss.
	2	Gauss reciprocity law, Greatest Integer function [x]
	3	The number of divisors and the sum of divisors of a natural Number
	4	Revision & Test

Saniehlata

(SANIEHLATA)

(Extension Lect in Math)

LESSON PLAN

Name of the Teacher		SANEH LATA
Subject	Vector Calculus	
Session	2023-24 Even Sem.	
Month	Week	Topic
Feb	3	Scalar & vector product of three vectors. product of 4 vectors, vector differentiation
	4	Scalar valued point fun ^c , vector valued function derivative along a curve, directional derivative
March	1	Gradient of scalar pt function, geometrical intr. of grad, Divergence and Curl of vector
	2	Character of Div f and Curl f & as pt function Gradient, divergence and curl of sums
	3	Product and related vector identities Laplacian operation
	4	Orthogonal Curvilinear Coordinates Condition for orthogonality fundamental of mutually orth. unit vectors
April	1	Divergence, Curl & Laplacian operators in terms of orthogonal Curvilinear Coordinates
	2	Cylindrical co-ordinates & spherical coordinates vector integration
	3	Surface integral, theorems of Gauss, Green & Stokes and problems.
	4	Revision and test

Saneh Lata

(SANEH LATA)

(Extension Lect in Maths)

LESSON PLAN FOR EVEN SEM.

Name of the Teacher		SANEH LATA
Subject	Real and Complex Analysis	
Session	2023-2024 Even Semester (B.Sc. 3rd Year)	
Month	Week	Topic
Feb	3	Jacobian, Beta function, Double and Triple integrals
	4	Fourier's series
March	1	Extended Complex Plane, Stereographic projection of Complex Num.
	2	Analytic functions, C-R equations, Harmonic function
	3	Mappings by elementary functions: translation, rotation
	4	Half Range Series, Change of intervals
April	1	Conformal Mappings & Test
	2	Mobius transformations
	3	Fixed points, Cross ratio, Inverse points & Critical Mappings
	4	Revision and Test

Jawab
 (SANEH LATA)
 (Extension lect'in Maths)

LESSON PLAN

Name of the Teacher		SANEHLATA
pSubject	Sequence And Series	
Session	2023-24 Even Semester	
Month	Week	Topic
Feb	3	Boundedness, L.U.B, G.L.B, interior points, isolated points, limit.
	4	Open set, Closed Set, interior, closure set, Bolzano-Weierstrass th ^m , open cover, Compact set
March	1	Sequence: Real sequence, Bdd & Mono. seq ⁿ , Cauchy's sequence, Subsequence
	2	Infinite Series: Convergence and divergence of Infinite Series
	3	Raabe's Test, Logarithmic, Cauchy's general principle of convergence of Series
	4	Infinite Series; & Leibniz's Test
April	1	Alternating series, Leibniz's Test, absolute and conditional convergence, Abel's lemma, Abel's test
	2	Insertion and removal of parentheses, Dirichlet's th ^m , Riemann's Re-arrangement th ^m .
	3	Multiplication of Series, Cauchy product Convergence
	4	Revision and Test

Sanehlata
(SANEHLATA)
(Extension Lect in Maths)