DEPARTMENT OF MATHEMATICS ACADEMIC PLAN 2021-2022
ODD SEMESTER

Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Name	Sem/ paper	14/06/2021-19/06/2021	21/06/2021-26/06/2021	28/06/2021-3/7/2021	5/7/2021-10/7/2021	12/7/2021-17/07/2021	19/07/2021-24/07/2021	26/07/2021-31/07/2021-	2/8/2021-7/8/2021	9/8/2021-14/08/2021	16/08/2021-21/08/2021	23/08/2021-28/08/2021	30/08/2021 4/9/2021	6/9/2021-12/9/2021	13/09/2021-18/09/2021	20/09/2021-26/09/2021
Mr. Subhash Krishnan	Sem. I Prac	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	revision	revision	revision
	Sem III Pract.	Module 1 paper 3	Module 1 paper 3	Module 1 paper 3	Module 1 paper 3	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	revision	revision	revision
	Sem V Theory.	Structure of C program: Header and body, Concept of header files, Use of comments, Compilation of a program.	Data Concepts: Variables, Constants, data types like: int, float char, double and void. Qualifiers: short and long size qualifiers. Declaring variables, Scope of the variables according to block, Hierarchy of data types.	Types of operators: Arithmetic, Relational, Logical, Compound Assignment, Increment and decrement, Conditional or ternary operators. Precedence and order of evaluation. Statements and Expressions.	Type conversions: Automatic and Explicit type conversion.	Data Input and Output functions: Formatted I/O: printf(), scanf(). Character I/O format: getch(), gets(), putch(), puts()	Arrays: One-, two- and three-dimensional arrays. String	Iterations: Control statements for decision making: (a) Branching: if statement, if-else statement, if-else-if statement (b) Looping: while loop, do- while, for loop, nested loop. (c) Loop interruption statements: break, continue.	String Functions: strlen(), strcpy(), strcat(), strcmp().	User defined Functions: Function definition, return statement, calling a function.	Recursion: Definition, Recursion functions for factorial, Fibonacci sequence, exponential function, G.C.D.	Programmmes	Programmmes	Programmmes	Programmmes	Programmmes
	Sem V Pract.	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above
Ms. Sudha Agrawal	Sem I Prac	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	revision	revision	revision
	Sem III Theory	Operation on matrices	system of equations, elimination method, graphical interpretaion	Solving system using matrices, Gauss elimination	Various results proofs	review of group theory, Vector spaces, def, ex	subspaces, linear span, examples	direct sum	Linearly independent and dependent sets	generating set, basis	coordinates of a vector,	Row rank and col rank of a matrix.	Inner product space, examples, norm	Inner product space, examples, norm	various identities relation norm and inner product	orthonoarmal basis, Gram schmidt process
	Sem III Pract	Revising pre-requisitesx	practical based on above topic	practical based on above topi	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
	Sem V Theory	Eigen values and eigen vectors, ch poly of a LT and a matrix	Calley Hamilton thm, ita applications	diagonalization of a matrix	N.and S. conditions for a matrix to be diagonalizable, eigen values of symmetric matrix.	orthogonal matrices, a real sym matrix is orthogonally diag.	application to QF, identifying conics and quadrics.	Posotive def, neg def and indef forms	Groups, subgroups, review examples, properties, more exmples of groups	order of an element, properties	Groups of symmetries, permutation groups, their properties	cyclic groups, properties and examples	properties of subgroups of a cyclic group	group homomorphism, elemntary properties	isomorphic groups, properties	revision
	Sem V Pract	Revising pre-requisites	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	revision
Dr.Reema Khanna	Sem I Theory	Sequences	Sequences	Sequences	Sequences	Sequences	Sequences	Sequences	Sequences	Sub-Sequences	Sub-Sequences	Sub-Sequences	Sub-Sequences	Sub-Sequences	Sub-Sequences	Sub-Sequences
	Sem I Pract	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module
	Sem V Theory	Vectors in R^n	Vectors in R^n	Vectors in R^n	limits and continuity	limits and continuity	limits and continuity	Differentiabilty of Scalar and vector valued functions	Differentiabilty of Scalar and vector valued functions	Differentiabilty of Scalar and vector valued functions	Differentiabilty of Scalar and vector valued functions	Differentiabilty of Scalar and vector valued functions	Applications of Differentiability	Subsequences and Cauchy sequences	Subsequences and Cauchy sequences	revision
	Sem V Pract.	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	Revision
	Sem III Pract.	Module 1	Module 1	Module 1	Module 2	Module 2	Module 2	Module 2	Module 3	Module 3	Module 3	Module 3	Modiule 4	Modiule 4	Modiule 4	
Mr. M Niphadkar	Sem I Pract	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught
	Sem III Theory	Revision of properties of real numbers	Concept of sequence of real numbers and convergence	Monotonic and bounded sequences	More problems	subsequences and concept of limit superior and limit inferior	Cauchy sequence	Nested intervals property and Bolzano weierstass theorem	Establishing equivalence of Cauchy sequences and convergent sequences	Introduction to real series and convergence	Various tests of convergence and problems	Power series and radius of convergence	Tougher problems on sequences and series and activities	Sequential continuity and Uniform continuity	Proofs of various properties of continuois functions and problems	Revision of entire syllabus
	Sem III Pract.	Revising pre-requisites	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	Revision

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Mr. M Niphadkar	Sem V Theory	Revision of concepts on sequences and introduction to topics in ty syllabus	Definition and examples on point wise convergence of sequences on functions	More examples	Definition and examples on Uniform convergence of sequence of functions	Theorem on boundedness and continuity	Theory on differentiability and uniform convergence	Revision of concepts and more examples	More examples	Point wise and uniform convergence in case of series of functions	Absolute convergence and Weierstrass test	Theory on uniform convergence and continuity and boundedness, R-integration and differentiaition	Theory on power series and examples	more complicated problems on power series and special functions	Illustrations on solving a differential equation by power series, Activities	Revision of entire syllabus assigned
	Sem V Prac	Revising pre-requisites	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	Revision
Mr. PrabhatKumar Upadhyay	Sem V Theory	Definition and examples of metric Space	Space of sequence and C[a,b]	Metric induced by norm	metric subspace and product space	Examples of open balls and open sets	interior of a set, properties of open sets	equivalent metric	distance between sets	definition and examples of closed balls and closed sets	limit point, isolated points	sequence in a metric space	Cauchy sequence	characterization of limit points in terms of sequence	Density and separability	Revision
	SemV Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	Revision
	SemI Theory	Real numbers and their basic properties	Cauchy Schwartz and AM GM inequality	Absolute value function	intervals and neighborhood	supremum and infimum	properties of sup and inf	Archimedean property and density theorem	series of real numbers and partial sum	summability	divergent series without involving test	properties of convergent series	Geometric series	convergence test	absolute convergence	revision
	Sem I Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	revision
	Sem V Pract															
Mr. Prashant Agre	Sem I Theory	Module 3- Natural numbers and Integers : Well ordering principle. 1 is the smallest natural number. There is no natural number	First and second principle of mathematical induction.	Binomial theorem and related identities.	Pascal's law and Pascal's triangle.	Definition and elementary properties of divisibility in ℤ . Division Algorithm	G.C.D. of two integers and its basic properties including G.C.D. of two integers ‘a’ and ‘b' (not both zero) can be expressed as ma + nb.	L.C.M of two integers and its basic properties, Proof of the lemma ‘If a = bq + r then GCD(a, b) = (b, r)’.	Euclidean Algorithm, Euclid’s Lemma.	Module 4 Prime numbers and linear Diophantine equation : Prime numbers and its basic properties.	The set of primes is infinite. The set of primes of the type 4n – 1 and 4n + 1 is infinite.	Linear Diophantine equation ax+by = c	The linear Diophantine equation ax+ by = c has solution iff d|c, where d=GCD(a,b)	If x0, y0 is any particular solution then any solution of the given Diophantine equation is given by x= x0 + (bd)t and y=y0 − (ad)t, for varying t.	Problems based on prime numbers	Solving simple examples on Diophantine equation
	Sem I Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
	Sem I FYBCom tutorial	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem III Pract Paper I	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem III Pract Paper III	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	SemV Theory	Module I: Prime numbers and Congruence Review: Divisibility, Definition of Prime, Definition and elementary properties of	The Fundamental Theorem of Arithmetic, Number of primes are infinite,	Distribution of Primes, Definition and examples of Twin primes,	Complete Residue system modulo m, Reduced residue system modulo m, Euler’s Phi Function,	Euler’s Phi function is multiplicative. Fermat little Theorem,	Euler’s generalization of Fermat Little Theorem, Wilson Theorem, Linear Congruence and its solution,	Chinese Remainder Theorem, For prime p, x2≡-1(mod p) has a solution iff p is of the form 4k+1	Module II Continued Fractions and Pell’s Equations: Definition of finite continued fraction . Representation of a rational number as a	Value of a finite continued fraction is always rational. Solving linear Diophantine equation using Continued Fraction.	Kth convergent (Ck) of a continued fraction. Representation of Ck as pk /qk .	The convergents with even subscript forms a strictly increasing sequence and convergents with odd subscript forms a strictly decreasing sequence.	Definition of infinite continued fraction. Representation of an irrational number as an infinite simple continued fraction.	Value of an infinite continued fraction is always irrational. Every irrational number has a unique representation as an infinite continued fraction.	Rational approximation of an irrational number. Revision	If 1≤ b≤ qn then pn/qn is better rational approximation for irrational number x than any rational number a/b.
	Sem V Pract I	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
Ms. S Waghmare	Sem III Pract			Filtering data and Graphical representation of data using Spread sheet	Use of Sorting and subtotal	Use of Mathematical functions using Spread sheet	Use of Pivot table and pivot report using Spread sheet	Calculation of DA, HRA, PF, Gross Salary and Net Salary Using spreadsheet	Calculation of DA, HRA, PF, Gross Salary and Net Salary Using spreadsheet	Calculation of Income Tax using Spread Sheet	Use of VLOOKUP and HLOOKUP using Spread sheet	Use of Financial functions using Spread sheet	Use of Macro			
	Sem V Pract			Use of Excel Template	Use of Multiple Spreadsheets	Use of various Functions in Excel	Graphical representation of data in Excel	PowerPoint presentation	Creating database and tables	Use of simple functions in SQL	Creating Simple Queries	Creating Nested Queries	Creating queries from multiple tables			

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Ms. Sheetal Waghmare	Sem III Theory	Module 1 HARDWARE AND SOFTWARE Evolution of Computers - Generations, Types of computers, Computer system, characteristics, Basic components of a Digital Computer - Control Unit, ALU, Input / Output , functions and memory, Memory addressing capability of a CPU	Binary number system, Binary addition. Software and its Need, Types of Software - System software, Application software. System Software - Operating System	Utility Program, Algorithms, Flow Charts - Symbols, Rules for making Flow chart, Programming languages, Assemblers, Compilers and Interpreter, Computer Applications in Business.	Module 2 Spreadsheet Creating and Navigating worksheets and adding information to worksheets. Types of data, entering different types of data such as texts, numbers, dates, functions. Quick way to add data Auto complete, Autocorrect, Auto fill, Auto fit. Undo and Redo.	Moving data, contiguous and non-contiguous selections, selecting with keyboard, cut-copy, paste. Adding and moving columns or rows. Inserting columns and rows. Find and replace values. Spell check. Formatting cells, Numbers, Date, Times, Font, Colors, Borders, Fills.	Multiple Spreadsheets, adding, removing, hiding and renaming worksheets. Add headers/Footers to a Workbook. Page breaks, preview. Creating formulas, inserting functions, cell references, Absolute, Relative (within a worksheet, other worksheets and other workbooks)	Functions Financial functions: FV, PV, PMT, PPMT, IPMT, NPER, RATE, NPV, IRR. . Mathematical and statistical functions. IF,NESTED-IF, SUM	ROUND, ROUNDDOWN, ROUNDUP, CEILING, FLOOR, INT, MAX, MIN, MOD, SQRT, ABS, AVERAGE. Date and Time function. Creating report, sorting, subtotal	Pivot Tables-Building Pivot Tables, Pivot Table regions, Rearranging Pivot Table.	Module 3 Introduction to Information Security	Firewall - Planning and Administration - Log analysis basic - Logging states - Security	Management Information System: Overview of MIS Definition, Characteristics	Subsystems of MIS (Activity and Functional subsystems). Reasons for failure of MIS	Data Mining: Understand the purposes of data mining, Understand the data mining process including objective identification, model selection, hypothesis, formulation, target data collection, data preprocess, model fitting, testing/verification, interpretation/evaluation, and application	Learn about values of data mining from real-life data mining applications, Learn about decision trees and neural networks as two major data mining algorithms, Understand the importance of text mining.
	Sem V Theory	Module 1: Creating a presentation Presenting in different views, Inserting Pictures, Videos, Hyperlink Creating animation effects on them Slide Transitions, Timed Presentations	Module 2 spreadsheetMultiple Spreadsheets: Creating and using templates. Creating and Linking Multiple Spreadsheets. Creating and using named ranges. Cell References	Functions: Conditional Logic functions IF, nested-if, COUNTIF, 3 Logical Operators (AND, NOT, OR)	Mathematical Functions: MIN, MAX, ROUND, SUM, AVERAGE, SUMIF. String functions: LEFT, RIGHT, MID, LEN, UPPER, LOWER, PROPER, TRIM. Date functions: TODAY, NOW, DATE, TIME, DAY, MONTH, YEAR,	Data Analysis: Filter with customized condition. The Graphical representation of data.	Module 3 Database and SQL Introduction to Databases, Relational and Non-relational database system, MySQL as a Non-procedural Language. Views of data.	SQL Basics : Statements (Schema Statements, Data statements, Transaction statements, names (table & column names), data types (Char, Varchar, Text, Smallint, Bigint, Boolean, Decimal, Float, Double, Date, Date Time, Timestamp, Year, Time).	Creating Database, USE, CREATE TABLE, ALTER (Add, Remove, Change columns), RENAME, SHOW, DESCRIBE (CREATE TABLE, COLUMNS, STATUS and DATABASES only) and DROP (TABLE, COLUMN,	INSERT-Inserting data, UPDATE SET-Updating data, DELETE- Deleting data, expressions, built-in-functions, missing data(NULL and NOT NULL DEFAULT values)	Module 4 Database and MySQL	Multi-table queries: Simple joins (INNER JOIN), SQL considerations for multi table queries (table aliases, qualified column names, all column selections self joins).	Nested Queries (Only up to two levels) : Using sub queries, sub query search conditions, sub queries & joins, nested sub queries	correlated sub queries, sub queries in the HAVING clause.	Simple Transaction illustrating START, COMMIT, and ROLLBACK	
Mr. Pradeep Singh Jethodi	Sem III Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem I Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	SemI Theory	Introduction , Collection of data , Primary and secondory	Introduction , Collection of data , Primary and secondory	Arithmetic mean , median , mode and examples	Arithmetic mean , median , mode and examples	Quartiles , Percentiles , finding median using ogives , finding mode using histogram	Quartiles , Percentiles , finding median using ogives , finding mode using histogram	Dispersion, Range and its coefficient , Q.D and its coefficient , M.D and its coefficient, S.D and its coefficient and examples	Dispersion, Range and its coefficient , Q.D and its coefficient , M.D and its coefficient, S.D and its coefficient and examples	Introduction, Types of events, Algebra of events	Introduction, Types of events, Algebra of events	Mutually exclusive events , exhaustive events and examples	Mutually exclusive events , exhaustive events and examples	Addition theorem , Independent events, Conditional probability and examples	Random variable , probability distribution of discrete random variable, expectation and variance and examples	revision
	Sem I Tutorial	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	revision
Ms. Vaishnavi Perumal	Sem III Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem I Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	SemI Theory	Introduction , Collection of data , Primary and secondory	Introduction , Collection of data , Primary and secondory	Arithmetic mean , median , mode and examples	Arithmetic mean , median , mode and examples	Quartiles , Percentiles , finding median using ogives , finding mode using histogram	Quartiles , Percentiles , finding median using ogives , finding mode using histogram	Dispersion, Range and its coefficient , Q.D and its coefficient , M.D and its coefficient, S.D and its coefficient and examples	Dispersion, Range and its coefficient , Q.D and its coefficient , M.D and its coefficient, S.D and its coefficient and examples	Introduction, Types of events, Algebra of events	Introduction, Types of events, Algebra of events	Mutually exclusive events , exhaustive events and examples	Mutually exclusive events , exhaustive events and examples	Addition theorem , Independent events, Conditional probability and examples	Random variable , probability distribution of discrete random variable, expectation and variance and examples	revision
	Sem I Tutorial	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	revision
	SemIII Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught

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Mr. Shailesh Singh	Sem I Theory	Sets and relations	Sets and relations	Sets and relations	Sets and relations	Sets and relations	Sets and relations	Sets and relations	Functions	Functions	Functions	Functions	Functions	Functions	Functions	Functions
	Sem I Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
	Sem III Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	SemV Theory	Quadratic Reciprocity	Quadratic Reciprocity	Quadratic Reciprocity	Quadratic Reciprocity	Quadratic Reciprocity	Quadratic Reciprocity	Quadratic Reciprocity	Cryptography	Cryptography	Cryptography	Cryptography	Cryptography	Cryptography	Cryptography	Cryptography
	Sem V Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic

Note: In FY week specified will change as per their academic term

DEPARTMENT OF MATHEMATICS ACADEMIC PLAN 2021-2022
EVEN SEMESTER

Week		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Name	Sem/ paper	15/11/2021-20/11/2021	22/11/2021-2611/2021	28/11/2021-04/12/2021	06/12/2021-11/12/2021	13/12/2021-18/12/2021	20/12/2021-24/12/2021	03/01/2022-08/01/2022-	10/01/2022-15/01/2022	17/01/2022-22/01/2022	24/01/2022-29/01/2022	31/01/2022-05/02/2022	07/02/2022-12/02/2022	14/02/2022-19/02/2022	21/02/2022-26/02/2022	28/02/2022-05/03/2022
Mr. Subhash Krishnan	Sem. II Prac	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	revision	revision	revision
	Sem IV Pract.	Module 1 paper 3	Module 1 paper 3	Module 1 paper 3	Module 2 paper 3	Module 2 paper 3	Module 2 paper 3	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	revision	revision	revision
	Sem VI Theory.	Object-Oriented approach: Comparison between structured and object-oriented approach. Features of object-orientations: Abstraction, Inheritance, Encapsulation and Polymorphism. Concept of package. Integer class method: parseInt().	Introduction: History of Java, Java features, different types of Java programs, Differentiate Java with C. Java Virtual Machine.	Java Basics: Variables and data types, declaring variables, literals: numeric, Boolean, character and String literals, keywords, type conversion and casting. Standard default values. Java Operators, Loops and Controls.	Classes: Defining a class, creating instance and class members: creating object of a class; accessing instance variables of a class; creating method; naming method of a class; accessing method of a class; ‘this’ keyword, constructor Basic Constructor; parameterized constructor; calling another constructor. Finalizer method (only concepts)	Classes: Defining a class, creating instance and class members: creating object of a class; accessing instance variables of a class; creating method; naming method of a class; accessing method of a class; ‘this’ keyword, constructor Basic Constructor; parameterized constructor; calling another constructor. Finalizer method (only concepts)	Arrays: one and two-dimensional array, declaring array variables, creating array objects, accessing array elements.	Arrays: one and two-dimensional array, declaring array variables, creating array objects, accessing array elements.	Arrays: one and two-dimensional array, declaring array variables, creating array objects, accessing array elements.	overloading methods	Inheritance: Various types of inheritance, super and subclasses, keywords- ‘extends’; ‘super’, final.	Inheritance: Various types of inheritance, super and subclasses, keywords- ‘extends’; ‘super’, final.	JAVA Applets: Difference of applet and application, creating applets, applet life cycle.Graphics, Fonts and Color: The graphics class, painting, repainting and updating an applet, sizing graphics. Font class, draw graphical figures - lines and rectangle, circle and ellipse, drawing arcs, drawing	JAVA Applets: Difference of applet and application, creating applets, applet life cycle.Graphics, Fonts and Color: The graphics class, painting, repainting and updating an applet, sizing graphics. Font class, draw graphical figures - lines and rectangle, circle and ellipse, drawing arcs, drawing	JAVA Applets: Difference of applet and application, creating applets, applet life cycle.Graphics, Fonts and Color: The graphics class, painting, repainting and updating an applet, sizing graphics. Font class, draw graphical figures - lines and rectangle, circle and ellipse, drawing arcs, drawing	JAVA Applets: Difference of applet and application, creating applets, applet life cycle.Graphics, Fonts and Color: The graphics class, painting, repainting and updating an applet, sizing graphics. Font class, draw graphical figures - lines and rectangle, circle and ellipse, drawing arcs, drawing
	Sem VI Pract.	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above	programes bsed on the above
Ms. Sudha Agrawal	Sem II Prac	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	revision	revision	revision
	Sem IV Theory	matrices	system of equations	system of equations	system of equations	vector spces	subspaces	direct sum	Linearly ind and dependent sets	Module 3 paper 1 & 2	Module 4 paper 1 & 2	basis and dimension	Inner product space	revision	inner prod spacest	revision
	Sem IV Pract	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 1 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 2 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 3 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	Module 4 paper 1 & 2	revision	revision	revision
	Sem VI Theory	Normal subgroups	group isomorphism	caleys thm	classification of groups	Rings	integral domain and field	properties of rings	ring homomorphism	quotient rings	divisibility	divisibility	divisibility	revision	revision	revision
	Sem VI Pract	Normal subgroups	group isomorphism	caleys thm	classification of groups	Rings	integral domain and field	properties of rings	ring homomorphism	quotient rings	divisibility	divisibility	divisibility	revision	revision	revision
Dr.Reema Khanna	Sem II Theory	Differentiability	Differentiability	Differentiability	Differentiability	Differentiability	Differentiability	Differentiability	Differentiability	Application	Application	Application	Application	Application	Application	Application
	Sem II Pract	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module	practical based on above module
	Sem IV Pract	Module 1	Module 1	Module 1	Module 1	Module 2	Module 2	Module 2	Module 2	Module 2	Module 3	Module 3	Module 3	Module 4	Module 4	Module 4
	Sem VI Theory	Double,triple integrals	Double,triple integrals	Double,triple integrals	Change of variables	Change of variables	line integrals	line integrals	line integrals	line integrals	surface integrals	surface integrals	surface integrals	surface integrals	surface integrals	Revision

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Mr. Makrand Niphadkar	Sem I Pract	Pre requisites on practicals	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Problems based on the theory taught	Revision or backlog practicals if any	Revision or backlog practicals if any
	Sem III Theory	Revision of mensuration formulae, techniques of area calculation, motivation on Integration	Partitions of interval and refinements, upper and lower sums of a function wrt a partition	Upper integral, lower integral, Definition of R-integrable functions and simple examples	Monotonin functions, Riemann's criterion	Continuous and piece wise continuous functions are R-integrable, revision upto this	Fundamental theorem of calculus in various forms and proofs	mean value theorem on integration, change of variable formula and integration by parts,	Applications to calculation of area of a plane figure and volume of solide generated by rotating a curve about an axis	Improper integrals	Beta and gamma function and their properties	Revision of algebraic and geometric properties of complex numbers	metric properties of complex numbers, sequences and series	Definition and problems on continuity of functions, definition of exponential and trigonometric functions	Images of curves and regions under complex function	Revision
	SemIII Pract.	Revising pre-requisites	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
	Sem V Theory	Continuous functions on a metric space	Sequential continuity and unform continuity	problems based on sequential and uniform continuity	Charectarisation of continuity in terms of inverse images of open sets as well as closed sets	equivalent metrics and charecterisation in terms of bicontinuous, bijective map	Activites and presentations/ revision on continuity	Convergence of sequences and cauchy sequences	complete metric spaaces. definitions and examples	Theorems on completeness	Consequences such as NIP, IVP, density theorem etc	Unique continuous extension of a continuous function defined from a dense subset of a metric space to a complete metric space	Generalisation to topological spaces, brief exposure to separation axioms	Urysohn's lemma for metric spaces as well as for topological spaces	Revision	Revision
	Sem V Prac	Revising pre-requisites	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
Mr. PrabhatKumar Upadhyay	Sem II Theory	Graph 1.1	Graph 1.2	Graph 1.2	Graph 1.3	Module 2, 2.1	Module 2, 2.1	Module 2 , 2.2	Module 2 , 2.2	module 2, 2.3	module 2, 2.3	module 2, 2.3	module 2, 2.3	module2, 2.3	module 2, 2.3	Revision
	Sem II Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	Revision
	Sem V Theory	Definition and examples of compact sets	properties of compact sets	Heine borel theorem	Compact sets in Rn	continuous function on compact sets	characterization of compact sets	Bolzano weiestrass	Sequential compactness	definition and examples of connected sets	characterization of connected sets	properties of connected sets	path connected definition and examples	path connected sets in Rn	connected sets which are not path connected	revision
	Sem V Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	revision
Mr. Prashant Agre	Sem II Theory	Module 1- Congruences: Congruence: Definition and elementary properties,	simple examples using algebraic properties, Euler phi-function (Totient) and examples.	Euler's theorem (only statement). Fermat's little Theorem.	Solving simple problems using these theorems.	Wilson's theorem (only statement). Simple problems.	Introduction to addition and multiplication in n, multiplicative inverse in Z	Decimal representation of an integer, Divisibility test for 3, 9 and 11,	finding last digit, Problems	Module 2 - Polynomials: Polynomials in one variable with real coefficients.	Division Algorithm (without proof). G.C.D of two polynomials (Euclidean method)	Root and factor of a polynomial, multiplicity of a root,	Factor Theorem. Rational root theorem. Factorization over	Irreducible polynomial, Eisenstein's criteria (without proof). Number of real roots of nth degree polynomial is at most n.	Reciprocal polynomial, Repeated root of a polynomial is also a root of its derivative.	Relation between the roots and the coefficients of a polynomial. Examples.
	Sem II Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
	Sem II FYBCom tutorial	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem IV Pract Paper I	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem IV Pract Paper III	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem VI Theory	Module I : Analytic Functions complex number, Functions of Complex Variables,	Limits, Theorems on limits, Limits involving the point at infinity,	Continuity, Derivatives, Differentiation formulas.	Cauchy-Riemann Equations, Sufficient Conditions for differentiability,	C-R Equation in Polar coordinates, Analytic functions,	f, g analytic then f + g, f − g, fg and f /g are analytic, chain rule,	Problem on Analytic Function, C-R Equation in , Sufficient Condition For differentiability	Harmonic functions. Theorem: If f(z) = 0 everywhere in a domain D, then f(z) must be	Module II: Integrals Review of the Exponential functions, the Logarithmic function	Complex exponents, Trigonometric functions,	Hyperbolic functions. Branches and derivatives of logarithms,	Some identities involving logarithms. Derivatives of functions,	Definite integrals of functions, Contours, Contour integral, Examples.	Upper bounds for Moduli of contour integrals, Anti-derivatives, Examples	Cauchy-Groursat's Theorem (without proof), Simply and multiply Collected domains.
	Sem VI Pract I	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic

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Ms. Sheetal Waghmare	SY BCOM Sem IV Theory	Module 1 Data Communication, Networking and Internet Data Communication Component, Data representation, Distributed processing. (Concepts only) Network Basics and Infrastructure: Definition, Types (LAN, MAN, WAN) Advantages.	Network Structures – Server Based, Client server, Peer to Peer. Topologies – Star, Bus, Ring. Network Media, Wired and Wireless. Network Hardware: Hubs, Bridges, Switches, Routers.	Network Protocols – TCP/IP, OSI Model. Internet: Definition, Types of connections, sharing internet connection. Services on net- WWW, Email- Blogs. IP addresses, Domain names, URLs.	Searching Directories, Search engines, Boolean search (AND, OR, NOT), Advanced search, Meta Search Engines. Email – POP/SMTP accounts in Email, Different parts of an Email address. Receiving and sending emails with attachments by scanning attachments for viruses.	Module 2 Database Management System Database, Relational databases (Relation, Attribute, Instance, Relationship, Join) ,Database capabilities (Data definition, data manipulation, Access as an RDBMs)	Case Study of DBMS using MS-Access MS-Office workspace basics, Exploring the Office menu, Working with ribbon, Opening an access database, Exploring database objects, Creating database , Changing views. Printing database objects. Saving and closing database file.	Working with datasheets, Moving among records, Updating records, adding records to a table, Finding records, sorting records, Filtering records, Using the PIVOT chart View. Saving and closing tables. Adding a table to a database, Adding fields to a table, adding a Lookup field, setting a Primary Key, Using the input mask wizard. Saving design changes, Importing data (From Excel).	MODULE 3 MS-Access Queries Query, Creating a query, working with queries, saving and running a query, creating calculated fields, using aggregate functions, Understanding query properties, Joining Tables.	What is a Form, Using the form tool, Creating a form with form wizard, Working in design view, Changing the form layout, Using calculated controls, Working with records on a Form. What is a report tool, Printing report, saving a report, designing a report, changing report layout, creating mailing labels.	Introduction to Visual Basic, Introduction Graphical User Interface (GUI). Programming Language (Procedural, Object Oriented, Event Driven), Writing VB Projects. The Visual Basic Environment, Finding and fixing errors	Introduction to VB Controls Text boxes, Frames, Check boxes, Option button, Images, Setting a Border & Styles. The Shape Control, The line Control, Working with multiple controls and their properties, Designing the User Interface, Keyboard access keys, Default & Cancel property, tab order, Coding for controls using Text, Caption, Value property and Set Focus method Variables, Constants, and Calculations Variable and Constant, Data Type (Boolean, Byte, String, Integer, Currency, Single, Double, Date)	Naming rules/conventions, Constants (Named & Intrinsic), Declaring variables, Scope of variables, Val Function, Arithmetic Operations, Formatting Data.Decision and Condition Condition, Comparing numeric variables and constants, Comparing Strings, Comparing Text Property of text box, Compound Conditions (And, Or, Not)	If Statement, if then-else Statement, Nested If Statements, LCase and Ucase function, Using If statements with Option Buttons & Check Boxes. Msgbox (Message box) statement Input Validation: Is Numeric function. Planning the project.	Menus, Sub-procedures and Sub-functions, Defining/Creating and Modifying a Menu, Using common dialog box, Creating a new sub–procedure, Passing Variables to procedures, Passing Argument By Val or By Ref,	Writing a Function procedure Lists, Loops and Printing List boxes and Combo Boxes, Do/ Loops, For/ Next loops, Functions: Msgbox with multiple buttons, Strings. Sending information to the printer using Printer.
	Sem III Pract			MS-Office 2007 basics: Office menu, ribbon, quick access tool bar.	Opening an access database, creating blank database, using featured online templates, familiarizing all Access objects in navigation pane, opening an existing database and closing database.	Creating tables and adding details.(design view)(Learners should be made to enter at least 10 meaning full records to the table. These tables should be common to all the learners so that continuity is maintained) Using a form as object for data entry.	Adding a table to a database, Adding fields to a table, adding a Lookup field, setting a Primary Key, using the input mask wizard, saving design changes.	Understanding different views.	Adding and saving records to an existing table, adding fields, deleting fields, modifying fields	Sorting & Filtering tables	Creating a query, running a query and saving a query sheet	Importing data from Excel sheet	Designing, changing report.	Write a project in VB to design a calculator	Write a project in VB using nested-if statement	Write a project in VB using sub-procedure.
	TYBCOM Sem VI Theory	Module 1 R-SOFTWARE	Module 2 Introduction to Python Reasons for Python as the learner's first programming language. Introduction to the IDLE interpreter (shell) and its documentation. Expression evaluation: similarities and differences compared to a calculator; expressions and operators of types int, float, boolean. Built-in function type. Operator precedence.	Enumeration of simple and compound statements. The expression statement. The assert statement, whose operand is a boolean expression (values true or false). The assignment statement, dynamic binding of names to values, (type is associated with data and not with names);	Automatic and implicit declaration of variable names with the assignment statement; assigning the value None to a name. The del (delete) statement. Input/output with print and input functions. A statement list (semicolon-separated list of simple statements on a single line) as a single interpreter command.	The import statement for already-defined functions and constants. The augmented assignment statement. The built-inhelp() function. Interactive and script modes of IDLE, running a script, restarting the shell. Compound data types str, tuple and list (enclosed in quotes, parentheses and brackets, respectively).	Indexing individual elements within these types. Strings and tuples are immutable, lists are mutable. The iterative for statement. The conditional statements if, if-else, if-else-else.	The iterative statements while, while-else, for-else. The continue statement to skip over one iteration of a loop, the break statement to exit the loop. Nested compound statements	Module 3 Functions in Python I : The compound statement def to define functions; the role of indentation for delimiting the body of a compound statement; calling a previously defined function. Built-in functions min, max, sum.	Interactive solution of model problems, (e.g., finding the square root of a number or zero of a function), by repeatedly executing the body of a loop (where the body is a statement list).	Advantages of functions, function parameters, formal parameters, actual parameters, global and local variables. The range function,. Dictionaries: concept of key-value pairs, techniques to create, update and delete dictionary items. Problem-solving using compound types and statements.	Module 3 Functions in Python II : Anonymous functions. List comprehensions. Gentle introduction to object-oriented programming;	using the built-in dir() function, enumerate the methods of strings, tuples, lists, dictionaries.	Using these methods for problem-solving with compound types		
	TY BCOM Sem VI Pract			Use Of R-Software	Installing and setting up the Python IDLE interpreter. Executing simple statements like expression statement (numeric and Boolean types)	Script and interactive modes; defining a function in the two modes; executing a script interactively executing a statement list	Programs based on lists, conditional constructs, the for statement and the range function;	Programs related to string manipulation	Programs based on the while statement;	Programs using break and continue statements.	Programs related to dictionaries	Programs using list comprehensions and anonymo	Programs using the built-in methods of the string, list and dictionary classes			

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Ms. S. Waghmare	TY BCOM Sem VI Pract			Use Of R-Software	assert, assignment, delete statements; the print function for output	(semicolon-separated sequence of simple statements); the input function	interactively using the built-in functions len, sum, max, min	Programs related to string manipulation	importing and executing built-in functions from the time, math and random modules	Programs using break and continue statements.	Programs related to dictionaries	Programs using list comprehensions and anonymous functions	Programs using the built-in methods of the string, list and dictionary classes			
	TYBMS Theory	Module 1 Introduction to Operation Research and Linear Programming: Introduction to Operation Research	LPP: Introduction and Formulation	Formulation of LPP	LPP by Graphical Method	LPP by Simplex Method	LPP by Simplex Method	Module 2 Assignment and Transportation Models: Assignment Problem by Hungarian Method	Transportation Problem Theory	IBFS	MODI method	MODI method	Module 3 Network Analysis: CPM, Project Crashing	Program Evaluation and Review Technique	Module 4 Decision Theory, Sequencing and Theory of Games: Decision Theory	Job Sequencing Problem, Theory of Games
Mr. Pradeep Singh Jethodi	Sem IV Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	SemII Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem II Theory	Introduction , Scatter Diagram, karl pearson's coefficient of correlation and examples	Introduction , Scatter Diagram, karl pearson's coefficient of correlation and examples	Calculating Spearman's Rank correlation when ranks are distinct or tie between atleast two ranks and examples	Calculating Spearman's Rank correlation when ranks are distinct or tie between atleast two ranks and examples	Calculating Spearman's Rank correlation when ranks are distinct or tie between atleast two ranks and examples	Introduction to regression , finding regression lines using method of least squares	Introduction to regression , finding regression lines using method of least squares	Relationship between regression coefficients and correlation coefficient , point of intersection of regression lines	Relationship between regression coefficients and correlation coefficient , point of intersection of regression lines	Introduction to time series , types of components , estimation of trend using moving averages (three and four yearly) , method of least squares	Introduction to time series , types of components , estimation of trend using moving averages (three and four yearly) , method of least squares	estimation of seasonal index using simple arithmetic mean and examples	estimation of seasonal index using simple arithmetic mean and examples	Introduction to index numbers, simple and composite index numbers , Standard index numbers like laspeyre's , passche's and fisher's index numbers .	Cost of living index number , real income , base shifting and splicing and examples
	Sem II Tutorial	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	revision
Ms. Vaishnavi Perumal	Sem II Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem II Theory	Simple and compound Interest	Simple and compound Interest	Simple and compound Interest	Interest compounded more than once a year	Interest compounded more than once a year	Interest compounded more than once a year	EMI using reducing and flat interest method	EMI using reducing and flat interest method	EMI using reducing and flat interest method	EMI using reducing and flat interest method	Annuity immediate and anuuity due problems	Annuity immediate and anuuity due problems	Annuity immediate and anuuity due problems	Annuity immediate and anuuity due problems	Annuity immediate and anuuity due problems
	Sem II Tutorial	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	Problems based on the above	revision
	Sem IV Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
Mr. Shailesh Singh	Sem II Theory	Complex number	Complex number	Complex number	Complex number	Complex number	Complex number	Group Theory	Group Theory	Group Theory	Group Theory	Group Theory	Group Theory	Group Theory	Group Theory	Group Theory
	Sem II Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic
	Sem IV Pract	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught	practical based on the theory taught
	Sem VI Theory	Cauchy integral formula and Power series	Cauchy integral formula and Power series	Cauchy integral formula and Power series	Cauchy integral formula and Power series	Cauchy integral formula and Power series	Cauchy integral formula and Power series	Cauchy integral formula and Power series	Cauchy integral formula and Power series	Singularities	Singularities	Singularities	Singularities	Singularities	Singularities	Singularities
	Sem VI Pract	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic	practical based on above topic