BUNTS SANGHA'S

S.M. SHETTY COLLEGE OF SCIENCE, COMMERCE & MANAGEMENT STUDIES

WORK DIARY

2017-2018

Work Diary

Subject : Information Technology

Date	Class & Time	Subject Taught	Topics Covered	Signature
15/3/18	~~TY~~BCOM 11:10-1:00	Computer Sys. & Applications	Revision on if, Nested if, sorting & filtering.. (Overall doubt & discussion session).	
	I hereby declare that I have completed the syllabus of all the allotted subjects of sem IV & sem VI 2018			
		SYBBI- IT in Banking & Insurance-II		
		SYBAF- IT in Accountancy-II		
		SYBMS- IT in Business Management-II		
		TYBCOM- Computer Systems & Applications		

Co-ordinator

Principal

19/3/2018

Work Diary

Subject : Law

Jimit M 2017-A-T2

Date	Class & Time	Subject Taught	Topics Covered	Signature
24/3/18			This is certify that I have completed the entire syllabus as per University of Mumbai FYBMS - A & B - Ind. Law. SYBCom A & B - Business Law-2 SYBBI - Corporate Law FYBBI - Business Law	

Jimit

26/3/2018.

Work Diary

Subject : Law

Jimit M - 2017 B T1

Date	Class & Time	Subject Taught	Topics Covered	Signature
4-10-17	FYBMS A/B 8.20 - 10.	Law	Copyrights & MOA/AOA	Jimit
6-10-17	FYBMS A/B 8.20 - 10	Law	Negotiable Instrument Act/ PPT METHOD	Jimit 9/10/2017
14-10-17			This is certify that I have completed the entire syllabus as per University of Mumbai. FYBMS A & B - Business Law SYBCom A & B - Business Law-1 SYBAF - Business Law - 2 SYBBI - Foundation Course Jimit	

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Co-ordinator

Principal

23/10/2017

Work Diary

Subject : ____________________

Date	Class & Time	Subject Taught	Topics Covered	Signature
	I hereby declare that i have completed the syllabus of the under mentioned subjects SYBBI Financial Management TYBAF Financial Accounting FYBAF Financial Accounting SYBCOM Foundation course TYBMS Innovative financial services			

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Work Diary

Subject:

Date	Class & Time	Subject Taught	Topics Covered	Signature
3/10/17	7.30-8.20 TYBAF	FA-V	Internal reconstruction (2 sums)	
	9.10-10.00 TYBAF	FA-V	Internal reconstruction (2 sums)	
	10.20-11.10 FYBAF	FN	Sources of finance	

I hereby, declare that I have successfully completed the syllabus of the subjects alloted to me for following classes :-

FY BAF (FN)
SY BMS (Corporate Finance)
SY BI (Financial Management)
SY Com (A&B) (Foundation course)
TY BAF (Financial Accounting -V)

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Work Diary

Subject : ____________________

Date	Class & Time	Subject Taught	Topics Covered	Signature
14/3/18	SYBBI [7.30–8.20]	F.C.	II Internal Test.	
	S.Y.BCOM [8.20–9.10]	—	General Guidance on Prelins, ~~Internal~~ ATKT, T.Y. Admission, descipline etc.	[signature]
	F.Y. BCOM(A) [9.10–10.00] [10.20–11.10](B)	F.A.	Fire Insurance Claim.	
15/3/18	F.Y.BCOM(A) [7.30–9.10] [9.10–11.10](B)	F.A.	Fire Insurance Claim calculation based when abnormal Stock is given.	[signature]
	I hereby declare that the subjects given to me in the II term of academic year 2017–18 has been completed successfully.		Subject F.[illegible] (B) Financial A/C. &[illegible]ndation Course. T.[illegible] Introduction to Auditing CA	[signature] 15/3/18

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[signature] Co-ordinator

[signature] Principal 19/3/2018

Work Diary

Subject :

Date	Class & Time	Subject Taught	Topics Covered	Signature
	T.Y. Bcom (B) [9.10-10.00]	M.A.	E script filling up ~~dss~~ instruction given to students.	
	F.Y. Bcom (A & (B) [10.20-12.00]	F.A.	FIFO & WACM - Sum solved. Question Paper pattern discussed AS-1, 2 & 9 discussed and notes circulated to students.	

I hereby declare that the subjects given to me in the I term of academic year 2017-18 has been completed successfully.

Class : Subject :

F.Y. Bcom (A) & (B) : Financial Accounting

S.Y. BAF : Financial Market Operations

T.Y. Bcom : Management Accounting (A) & (B)

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7/10/2017

Principal

9/10/2017

Work Diary

Subject :

Date	Class & Time	Subject Taught	Topics Covered	Signature
14/3/16	SYBAF 8.20-9.10	Business Law	Debenture (Sec 71) Redemption By Conversion	J.Shetty
	TYBBI 9.10-10.00	Human Resource Management	Approaches to Job Design Job Evaluation Methods of Job Evaluation	J.Shetty
	SYBCOM 'A' & 'B' 10.20-11.10	Accountancy and Financial Management-IV	Practical Sums Solved in the class of Redemption of Preference Share	J.Shetty
			I hereby declare that I have Completed the Syllabus of Following Subjects which are assigned to me:- SYBAF - Business Law (4) FYBAF - Business Law (2) SYBCOM - Accountancy and Financial Management (4) FYBMS - Principles of Management (2) TYBBI - Human Resource Management (4)	J.Shetty

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19/3/2016.

Work Diary

Subject : ACCOUNTANCY

Date	Class & Time	Subject Taught	Topics Covered	Signature
19/03/18	SYBAF 07.30 To 10.00	FINANCIAL ACCOUNTING	Redemption of Preference Shares	
20/03/18	SYBAF 11.45 To 12.00	FINANCIAL ACCOUNTING	Redemption of Preference Shares	
21/03/18	SYBAF 07.30 To 09.30	FINANCIAL ACCOUNT	Redemption of Debentures	
21/03/18		I hereby declare that I have completed syllabus of all the allotted Subjects of Sem-II 2017-18. TY. Bcom - Financial Accounts TYBAF — Costing FYBBI — Fund & Treasury Course FYBAF — Auditing 21/03/18		

21/03/2018

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Work Diary

Subject : Accountancy

Date	Class & Time	Subject Taught	Topics Covered	Signature
14/10/17	I here by declare that I have completed syllabus of all the ~~allocated~~ allotted subjects of Sem I - 2017-18 - TYBcom - FINANCIAL ACCOUNTING TYBAF - Costing FYBBI - Foundation course FYBAF - Business Environment SYBAF - Financial Accounting 14/10/17			

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23/10/2017

Semester / Term Syllabus Planning

SYBSc(IT)–B.

MONTHS	TOPICS
JUNE	**UNIT 1:** **Introduction to Databases and Transactions** What is database system, purpose of database system, view of data, relational databases, database architecture, transaction management (PPT) **Data Models** The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction. (PPT) **Database Design, ER Diagram and Unified Modeling Language** Database design and ER Model: overview, ER Model, Constraints, ER Diagrams, ERD Issues, weak entity sets, Codd's rules, Relational Schemas, Introduction to UML. (PPT, case-study) **UNIT II:** **Relational database model:** Logical view of data. keys, integrity rules, Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF). (PPT) **Relational Algebra and Calculus** Relational algebra: introduction, Selection and projection, set operations, renaming, Joins, Division, syntax, semantics. Operators, grouping and ungrouping, relational comparison. (PPT)
JULY	**Calculus:** Tuple relational calculus, Domain relational Calculus, calculus vs algebra, computational capabilities. (PPT) **UNIT III:** **Constraints, Views and SQL** Constraints, types of constrains, Integrity constraints, Views: Introduction to views, data independence, security, updates on views, comparison between tables and views SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers. (Case Study, PPT, Audio-Visual)
AUGUST	**UNIT IV:** **Transaction management and Concurrency** Control Transaction management: ACID properties, serializability and concurrency control, Lock based concurrency control (2PL, Deadlocks), Time stamping methods, optimistic methods, database recovery management. (PPT)
SEPTEMBER	**UNIT V:** **PL-SQL:** Beginning with PL / SQL, Identifiers and Keywords, Operators, Expressions, Sequences, Control Structures, Cursors and Transaction, Collections and composite data types, Procedures and Functions, Exceptions Handling, Packages, With Clause and Hierarchical Retrieval, Triggers. (Simulation, PPT)

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Lesson Plan for Even Semester (2017-18)

TYBSc(IT)

Month	TY Bsc.IT – Semester VI (GIS)
December - 2017	**Unit I** :- Spatial Data Concepts: Introduction to GIS, Geographically referenced data, Geographic, projected and planer coordinate system, Map projections, Plane coordinate systems, Vector data model, Raster data model . (Audio-Visual PPT) .
December - 2017	**Unit II** :- Data Input and Geometric transformation: Existing GIS data, Metadata, Conversion of existing data, Creating new data, Geometric transformation, RMS error and its interpretation, Resampling of pixel values. (Experiental exercises and simulations)
January - 2018	**Unit III** :Attribute data input and data display : Attribute data in GIS, Relational model,Data entry, Manipulation of fields and attribute data, cartographic symbolization, types of maps, typography, map design, map production (Slides/Video)
January - 2018	**Unit IV** :Data exploration: Exploration, attribute data query, spatial data query, raster data query, geographic visualization. (Demonstration through diagrams) .
February - 2018	**Unit V** :Vector data analysis: Introduction, buffering, map overlay, Distance measurement and map manipulation. Raster data analysis:Data analysis enviro nment, local operations, neighbourhood operations, zonal operations, Distance measure operations. (PPT/slides)
March-2018	**Unit VI** :Spatial Interpolation:Elements, Global methods, local methods, Kriging, Comparisons of different methods. (Live Example of application (Simulation) real slides) .

Month	SY Bsc.IT – Semester –IV (CG & Animation)
December - 2017	**Unit I** :- Introduction to Computer Graphics: Overview of Computer Graphics, Computer Graphics Application and Software, Description of some graphics devices, Input Devices for Operator Interaction, Active and Passive Graphics Devices, Display Technologies, Storage Tube Graphics Displays, Calligraphic Refresh Graphics Displays, Raster Refresh (Raster-Scan) Graphics Displays, Cathode Ray Tube Basics, Color CRT Raster Scan Basics, Video Basics, The Video Controller, Random-Scan Display Processor, LCD displays. Scan conversion – Digital Differential Analyzer (DDA) algorithm, Bresenhams' Line drawing algorithm. Bresenhams' method of Circle drawing, Midpoint Circle Algorithm,
	Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median Filtering

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nber - 2017	Midpoint Ellipse Algorithm, Mid-point criteria, Problems of Aliasing, end-point ordering and clipping lines, Scan Converting Circles, Clipping Lines algorithms– Cyrus-Beck, Cohen-Sutherland and Liang-Barsky, Clipping Polygons, problem with multiple components. (slides, video)
uary - 2018	**Unit II** :- Two-Dimensional Transformations: Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to Viewport Transformations. Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, Three-dimensional Rotation, Three-Dimensional Reflection, Three-dimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations, Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections. (slides, video, chalk Duster).
uary - 2018	**Unit III** :Viewing in 3D Stages in 3D viewing, Canonical View Volume (CVV), Specifying an Arbitrary 3D View, Examples of 3D Viewing, The Mathematics of Planar Geometric Projections, Combined transformation matrices for projections and viewing, Coordinate Systems and matrices, camera model and viewing pyramid. Light:Radiometry,Transport,Equation,Photometry Color:Colorimetry,ColorSpaces,ChromaticAdaptation, Color Appearance (slides video demonstrating with help of case study).
ruary - 2018	**Unit IV** :Visible-Surface Determination: Techniques for efficient Visible-Surface Algorithms, Categories of algorithms, Back face removal, The z-Buffer Algorithm, Scan-line method, Painter's algorithms (depth sorting), Area sub-division method, BSP trees, Visible-Surface Ray Tracing, comparison of the methods. Plane Curves and Surfaces: Curve Representation, Nonparametric Curves, Parametric Curves,
rch - 2018	**Unit V** : Computer Animation: Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects. Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median Filtering

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Semester / Term Syllabus Planning

Lesson Plan for 2017 -2018	TYBSc.IT –SEMESTER V – SOFTWARE TESTING
Unit I (June)	**Fundamentals of testing:** Necessity of testing , what is it, Testing principles, Fundamental test process, The psychology of testing. (Role plays).
Unit II (July)	**Testing throughout the software life cycle:** Software development models, Test levels, Test types: the targets of testing, Maintenance testing (Daigrams, charts, slides, video).
Unit III (July)	**Static techniques:** Reviews and the test process, Review process, Static analysis by tools (Slides)
Unit IV (Aug)	**Test design techniques:** Identifying test conditions and designing test cases, Categories of test design techniques, Specification-based or black-box techniques, Structure-based or white-box techniques, Experience-based techniques (Case study, slide, Role play by learners).
Unit V (Aug)	**Test management:** Test organization, Test plans, estimates, and strategies, Test progress monitoring and control, Configuration management, Risk and testing, Incident management (Talk, chalk & Duster).
Unit V , Unit VI (Sept)	**Tool support for testing:** **Types of test tool, Effective use of tools:** Potential benefits and risks, Introducing a tool into an organization (Slides).
ruary - 2018	Parametric Representation of a Circle, Parametric Representation of an Ellipse, Parametric Representation of a Parabola, Parametric Representation of a Hyperbola, Representation of Space Curves, Cubic Splines, , Bezier Curves, B-spline Curves, B-spline Curve Fit, B-spline Curve Subdivision, Parametric Cubic Curves, Quadric Surfaces. Bezier Surfaces. (Slides, Video)
arch - 2018	**Unit V :** Computer Animation: Principles of Animation, Key framing, Deformations, Character Animation, Physics-Based Animation, Procedural Techniques, Groups of Objects. Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard – JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median Filtering

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Semester / Term Syllabus Planning

Month	Topics
June	**Unit 1:** **Matrices:** Inverse of a matrix, Properties of matrices, Elementary Transformation, Rank of Matrix, Echelon or Normal Matrix, Inverse of matrix, Linear equations, Linear dependence and linear independence of vectors, Linear transformation, Characteristics roots and characteristics vectors, Properties of characteristic vectors, Caley-Hamilton Theorem, Similarity of matrices, Reduction of matrix to a diagonal matrix which has elements as characteristics values. **Complex Numbers:** Complex number, Equality of complex numbers, Graphical representation of complex number(Argand's Diagram), Polar form of complex numbers, Polar form of x+iy for different signs of x,y, Exponential form of complex numbers, Mathematical operation with complex numbers and their representation on Argand's Diagram, Circular functions of complex angles, Definition of hyperbolic function, Relations between circular and hyperbolic functions, Inverse hyperbolic functions, Differentiation and Integration, Graphs of the hyperbolic functions, Logarithms of complex quality, j(=i)as an operator(Electrical circuits)
July	**Unit 2:** **Equation of the first order and of the first degree:** Separation of variables, Equations homogeneous in x and y, Non-homogeneous linear equations, Exact differential Equation, Integrating Factor, Linear Equation and equation reducible to this form, Method of substitution. **Differential equation of the first order of a degree higher than the first:** Introduction, Solvable for p (or the method of factors), Solve for y, Solve for x, Clairaut's form of the equation, Methods of Substitution, Method of Substitution. **Linear Differential Equations with Constant Coefficients:** Introduction, The Differential Operator, Linear Differential Equation f(D) y = 0, Different cases depending on the nature of the root of the equation f(D) = 0, Linear differential equation f(D) y = X, The complimentary Function, The inverse operator 1/f(D) and the symbolic expiration for the particular integral 1/f(D) X; the general methods, Particular integral : Short methods, Particular integral : Other methods, Differential equations reducible to the linear differential equations with constant coefficients.
August	**Unit 3:** Introduction, Definition of the Laplace Transform, Table of Elementary Laplace Transforms, Theorems on Important Properties of Laplace Transformation, First Shifting Theorem, Second Shifting Theorem, The Convolution Theorem, Laplace Transform of an Integral, Laplace Transform of Derivatives, **Inverse Laplace Transform:** Shifting Theorem, Partial fraction Methods, Use of Convolution Theorem, Solution of Ordinary Linear Differential Equations with Constant Coefficients, Solution of Simultaneous Ordinary Differential Equations, Laplace Transformation of Special Function, Periodic Functions, Heaviside Unit Step Function, Dirac-delta Function(Unit Impulse Function),
September	**Unit 4:** **Multiple Integrals:** Double Integral, Change of the order of the integration, Double integral in polar co-ordinates, Triple integrals. **Applications of integration:** Areas, Volumes of solids. **Unit 5:** **Beta and Gamma Functions** – Definitions, Properties and Problems. Duplication formula. **Differentiation Under the Integral Sign** **Error Functions**

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F.Y.B.Sc.(IT) SEM – I (2017-18)

Semester / Term Syllabus Planning

Month	Topics
July	**Unit 1:** **Introduction:** Variables, The Language of Sets, The Language of Relations and Function **Set Theory:** Definitions and the Element Method of Proof, Properties of Sets, Disproofs, Algebraic Proofs, Boolean Algebras, Russell's Paradox and the Halting Problem. **The Logic of Compound Statements:** Logical Form and Logical Equivalence, Conditional Statements, Valid and Invalid Arguments) [ICT]
August	**Unit 2:** **Quantified Statements:** Predicates and Quantified Statements, Statements with Multiple Quantifiers, Arguments with Quantified Statements **Elementary Number Theory and Methods of Proof:** Introduction to Direct Proofs, Rational Numbers, Divisibility, Division into Cases and the Quotient-Remainder Theorem, Floor and Ceiling, Indirect Argument: Contradiction and Contraposition, Two Classical Theorems, Applications in algorithms. **Unit 3:** **Sequences, Mathematical Induction, and Recursion:** Sequences, Mathematical Induction, Strong Mathematical Induction and the Well Ordering Principle for the Integers, Correctness of algorithms, defining sequences recursively, solving recurrence relations by iteration, Second order linear homogenous recurrence relations with constant coefficients. general recursive definitions and structural induction. [PPT]
September	**Functions:** Functions Defined on General Sets, One-to-One and Onto, Inverse Functions, Composition of Functions, Cardinality with Applications to Computability **Unit 4:** **Relations**: Relations on Sets, Reflexivity, Symmetry, and Transitivity, Equivalence Relations, Partial Order Relations **Graphs and Trees:** Definitions and Basic Properties, Trails, Paths, and Circuits, Matrix Representations of Graphs, Isomorphism's of Graphs, Trees, Rooted Trees, Isomorphism's of Graphs, Spanning trees and shortest paths. [PPT]
October	**Unit 5:** **Counting and Probability:** Introduction, Possibility Trees and the Multiplication Rule, Possibility Trees and the Multiplication Rule, Counting Elements of Disjoint Sets: The Addition Rule, The Pigeonhole Principle, Counting Subsets of a Set: Combinations, rCombinations with Repetition Allowed, Probability Axioms and Expected Value, Conditional Probability, Bayes' Formula, and Independent Events. [PPT]

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Semester / Term Syllabus Planning

Month	Topics to be covered
T. Y. B. Sc. IT - Semester 6	
Subject : ASP .Net with C#	
Month	**Topics to Be Covered**
JUNE-16	Review of .NET frameworks, Introduction to C#, Variables and expressions, flow controls, functions, debugging and error handling, OOPs with C#, Defining classes and class members. Assembly, Components of Assembly, Private and Shared Assembly, Garbage Collector, JIT compiler. Namespaces Collections, Delegates and Events. **Introduction to ASP.NET 4**: Microsoft.NET framework, ASP.NET lifecycle. **CSS**: Need of CSS, Introduction to CSS, Working with CSS with visual developer
JULY-16	ASP.NET server controls: Introduction, How to work with button controls, Textboxes, Labels, checkboxes and radio buttons, list controls and other web server controls, web.config and global.asax files. Programming ASP.NET web pages: Introduction, data types and variables, statements, organizing code, object oriented basics.
AUGUST-16	**Validation Control**: Introduction, basic validation controls, validation techniques, using advanced validation controls. **State Management**: Using view state, using session state, using application state, using cookies and URL encoding. **Master Pages**: Creating master pages, content pages, nesting master pages, accessing master page controls from a content page. **Navigation**: Introduction to use the site navigation, using site navigation controls.
SEPTEMBER-16	**Databases**: Introduction, using SQL data sources, GridView Control, DetailsView and FormView Controls, ListView and DataPager controls, Using object datasources. **ASP.NET Security**: Authentication, Authorization, Impersonation, ASP.NET provider model.
OCTOBER-16	**LINQ**: Operators, implementations, LINQ to objects,XML,ADO.NET, Query Syntax. ASP.NET **Ajax**: Introducing AJAX, Working of AJAX, Using ASP.NET AJAX server controls. **JQuery**: Introduction to JQuery, JQuery UI Library, Working of JQuery

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Semester / Term Syllabus Planning

Month	Topics to be covered
M. Sc. IT Part -II ---- Semester 3	
Subject : ETHICAL HACKING	
Month	**Topics to Be Covered**
JULY-16	Introduction to Ethical Hacking, Foot printing and Reconnaissance, Scanning Networks, Enumeration
AUGUST-16	System Hacking, Trojans and Backdoors, Viruses and Worms, Sniffing Social Engineering, Denial of Service, Session Hijacking, Hacking Web servers
SEPTEMBER-16	Hacking Web Applications, SQL Injection, Hacking Wireless Networks, Hacking Mobile Platforms
OCTOBER-16	Evading IDS, Firewalls and Honey pots, Buffer Overflows, Cryptography, Penetration Testing

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M. Sc. IT Part -II ---- Semester4	
Subject : IT Infrastructure Management	
Month	**Topics to Be Covered**
JANAURY-18	**Introduction:** The four perspectives (attributes) of IT service management, benefits of IT service management, business and IT alignment, What is ITIL?, What are services?, Service Management as a practice,The concept of Good Practice, Concept of a Service, Concept of Service Management, Functions and Processes, The process model and the characteristics of processes.(**Group Discussion& PPT**) **The Service Lifecycle:** Mapping the Concepts of ITIL to the Service Lifecycle, How does the Service Lifecycle work?
FEBRUARY-18	**Service Strategy:** Objectives, Creating Service Value, Service Packages and Service Level Packages, Service Strategy Processes, Service Portfolio Management, Financial Management, Demand Management, Service Strategy Summary, Interfaces with the Service Design Phase, Interfaces with the Service Transition Phase, Interfaces with the Service Operation Phase, Interfaces with the Continual Service Improvement Phase, Service Strategy Service Scenario, Overall Service Strategy, Service Portfolio Management Considerations, Financial Management Considerations.(**Presentation by students on relevant topics**) **Service Design:** Objectives, Major Concepts, Five Major Aspects of Service Design, Service Design Packages, Service Design Processes, Service Level Management, Supplier Management, Service Catalogue Management, Capacity Management, Availability Management, IT Service Continuity Management, Information Security Management, Service Design Scenario, Service Level Management Considerations, Capacity Management Considerations, Availability Management Considerations, (**PPT and Video**)
MARCH-18	**Service Transition:** Objectives, Service Transition Processes, Knowledge Management, Service Asset and Configuration Management, Change Management, Release and Deployment Management, Service Validation and Testing, Service Transition Summary, Service Transition Scenario, Knowledge Management Considerations, Service Asset and Configuration Management Considerations, Change Management Considerations, Release and Deployment Management Considerations, Service Validation and Testing Considerations(**PPT and Video**)
APRIL-18	**Service Operation:** Objectives, Major Concepts, Service Operation Functions, The Service Desk, Technical Management, IT Operations Management, Application Management, Service Operation Processes, Event Management, Incident Management, Problem Management, Request Fulfillment, Access Management, Service Operation Summary, Service Operation Scenario, Functions, Processes(**Field Visit**) **Continual Service Improvement:** Objectives, Major Concepts Continual Service Improvement Processes, Service Level Management, Service Measurement and Reporting , CSI (7 Step) Improvement Process, Continual Service Improvement Summary, Continual Service Improvement Scenario, Service Level Management Service Measurement and Reporting, CSI Process(**PPT**)

T.Y.B.Sc. IT - Semester 6	
Subject : Software Project Management	
Month	**Topics to Be Covered**
DECEMBER-17	**Conventional Software Management**: The waterfall model, conventionalsoftware Management performance.**(PPT)** Evolution of Software Economics: Software Economics, pragmatic software cost estimation. **Improving Software Economics**: Reducing Software product size, improving software processes, improving team effectiveness, improving automation, Achieving required quality, peer inspections.**(PPT)**
JANAURY-18	**The old way and the new**: The principles of conventional software Engineering, principles of modern software management, transitioning to aniterative process.**(Video of Star UML and PPT)** **Life cycle phases**: Engineering and production stages, inception, Elaboration,construction, transition phases. **Artifacts of the process**: The artifact sets, Management artifacts, Engineering artifacts, programmatic artifacts.**(PPT)** **Model based software architectures**: A Management perspective and technical perspective.
FEBRUARY-18	**Work Flows of the process**: Software process workflows, Iteration workflows. **Checkpoints of the process**: Major mile stones, Minor Milestones, Periodicstatus assessments. **Iterative Process Planning**: Work breakdown structures, planning guidelines, cost and schedule estimating, Iteration planning process, Pragmatic planning.**(PPT)** **Project Organizations and Responsibilities**: Line-of-Business Organizations, Project Organizations, evolution of Organizations.
MARCH-18	**Process Automation**: Automation Building blocks, The Project Environment**(Group Discussion)** **Project Control and Process instrumentation**: The seven core Metrics, Management indicators, quality indicators, life cycle expectations, pragmaticSoftware Metrics, Metrics automation. **Tailoring the Process**: Process discriminants.**(Classroom Debate)** **Future Software Project Management**: Modern Project Profiles, Next Generation Software economics, modern process transitions.

Semester / Term Syllabus Planning

Syllabus Plan -2017-2018

Name : Raveena Shetty
Class :S.Y.BSc.IT

Subject :Computer Network

MONTHS	TOPICS
JUNE	**UNIT I: Introduction:** Data communications, networks, network types, Internet history, standards and administration. **Network Models:** Protocol layering, TCP/IP protocol suite, The OSI model. **Introduction to Physical layer:** Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance. **Digital and Analog transmission:** Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion.
JULY	**UNIT II: Bandwidth Utilization: Multiplexing and Spectrum** **Spreading:** Multiplexing, Spread Spectrum **Transmission media:** Guided Media, Unguided Media **Switching:** Introduction, circuit switched networks, packet switching, structure of a switch. **Introduction to the Data Link Layer:** Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes. **UNIT III: Media Access Control:** Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit Ethernet. **Connecting devices and Virtual LANs.**
AUGUST	**Wireless LANs:** Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks. **UNIT IV: Introduction to the Network Layer:** Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP **Unicast Routing:** Introduction, routing algorithms, unicast routing protocols.
SEPTEMBER	**Next generation IP:** IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6. (Chalk & Talk, Videos) **UNIT V: Introduction to the Transport Layer:** Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n protocol, Selective repeat protocol, Bidirectional protocols), Transport layer services, User datagram protocol, Transmission control protocol. **Standard Client0Server Protocols:** World wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system. (PDF, Video)

Semester / Term Syllabus Planning

Class: FYIT **Subject: Operating System**

MONTH	TOPIC
JULY	**Unit I:Introduction:** What is an operating system? History of operating system, computer hardware, different operating systems, operating system concepts, system calls, operating system structure. **Processes and Threads:** Processes, threads, interprocess communication, scheduling, IPC problems.
AUGUST	**UNIT II: Memory Management:** No memory abstraction, memory abstraction: address spaces, virtual memory, page replacement algorithms, design issues for paging systems, implementation issues, segmentation. **File Systems:** Files, directories, file system implementation, file-system management and optimization, MS-DOS file system, UNIX V7 file system, CD ROM file system.
SEPTEMBER	**UNIT III: Input-Output:** Principles of I/O hardware, Principles of I/O software, I/O software layers, disks, clocks, user interfaces: keyboard, mouse, monitor, thin clients, power management,(Chalk & Talk, Videos) **Deadlocks:** Resources, introduction to deadlocks, the ostrich algorithm, deadlock detection and recovery, deadlock avoidance, deadlock prevention, issues. **UNIT IV: Virtualization and Cloud:** History, requirements for virtualization, type 1 and 2 hypervisors, techniques for efficient virtualization, hypervisor microkernels, memory virtualization, I/O virtualization, Virtual appliances, virtual machines on multicore CPUs, Clouds. (Chalk & Talk, Videos, PDF) **Multiple Processor Systems** Multiprocessors, multicomputers, distributed systems.
OCTOBER	**UNIT V: Case Study on LINUX and ANDROID:** History of Unix and Linux, Linux Overview, Processes in Linux, Memory management in Linux, I/C in Linux, Linux file system, security in Linux. Android (Chalk & Talk, Video) **Case Study on Windows:** History of windows through Windows 10, programming windows, system structure, processes and threads in windows, memory management, caching in windows, I/O in windows, Windows NT file system, Windows power management, Security in windows. (Chalk & Talk, PDF)

Teacher

POWAI MUMBAI-76.

Coordinator

Principal

Class: TY(B.Sc.IT) SEM-VI **Subject: Datawarehousing**

MONTH	TOPIC
NOVEMBER-DECEMBER	**UNIT-I:** Introduction to Data Warehousing: Introduction, Necessity, Framework of the datawarehouse, options, developing datawarehouses, end points. Data Warehousing Design Consideration and Dimensional Modeling: Defining Dimensional Model, Granularity of Facts, Additivity of Facts, Functional dependency of the Data, Helper Tables, Implementation manyto-many relationships between fact and dimensional modelling. **(Discussion Method,CHALK and TALK)** **UNIT-II:** Installing the OWB standalone software, OWB components and architecture.**(CHALK and TALK,PDF).** An overview of Warehouse Builder Design Center, Importing/defining source metadata, Creating a project, Creating a module
JANUARY	**UNIT-II:** Oracle database software, Configuring the listener, Creating the database, Installing the OWB standalone software, OWB components and architecture, Configuring the repository and workspaces. Creating an Oracle Database module, Creating a SQL Server database module, Importing source metadata from a database, Defining source metadata manually with the Data Object Editor, Importing source metadata from files. **UNIT-III:** Designing the Target Structure: Data warehouse design, Dimensional design, Cube and dimensions, Implementation of a dimensional model in a database, Relational implementation (star schema),Multidimensional implementation (OLAP),Designing the ACME data warehouse, Identifying the dimensions, Designing the cube, Data warehouse design in OWB, Creating a target user and module, Create a target user, Create a target module, OWB design objects. **(CHALK and TALK,PDF)** Creating the Target Structure in OWB: Creating dimensions in OWB, The Time dimension, Creating a Time dimension with the Time Dimension Wizard, The Product dimension, Product Attributes (attribute type),Product Levels, Product Hierarchy (highest to lowest),Creating the Product dimension with the New Dimension Wizard, The Store dimension, Store Attributes (attribute type), data type and size, and (Identifier),Store Levels, Store Hierarchy (highest to lowest),Creating the Store dimension with the New Dimension Wizard, Creating a cube in OWB, Creating a cube with the wizard, Using the Data Object Editor. **UNIT-IV:** Extract, Transform, and Load Basics: ETL, Manual ETL processes, Staging, To stage or not to stage, Configuration of a staging area, Mappings

	and operators in OWB, The canvas layout, OWB operators, Source and target operators, Data flow operators, Pre/post-processing operators.
FEBRUARY	**UNIT-IV:** Designing and building an ETL mapping: Designing our staging area, Designing the staging area contents, Building the staging area table with the Data Object Editor, Designing our mapping, Review of the Mapping Editor, Creating a mapping. **(CHALK and TALK,PDF)** **UNIT-V:** ETL:Transformations and Other Operators: STORE mapping, Adding source and target operators, Adding Transformation Operators, Using a Key Lookup operator, Creating an external table, Creating and loading a lookup table, Retrieving the key to use for a Lookup Operator, Adding a Key Lookup operator, PRODUCT mapping, SALES cube mapping, Dimension attributes in the cube, Measures and other attributes in the cube, Mapping values to cube attributes, Mapping measures' values to a cube, Mapping PRODUCT and STORE dimension values to the cube, Mapping DATE_DIM values to the cube, Features and benefits of OWB. Validating, Generating, Deploying, and Executing Objects: Validating, Validating in the Design Center, Validating from the editors, Validating in the Data Object Editor, Validating in the Mapping, Editor, Generating, Generating in the Design Center, Generating from the editors, Generating in the Data Object Editor, Generating in the Mapping Editor, Deploying, The Control Center Service, Deploying in the Design Center and Data Object Editor, The Control Center Manager, The Control Center Manager window overview, Deploying in the Control Center ,Manager, Executing, Deploying and executing remaining objects, Deployment Order, Execution order. **(CHALK and TALK,VIDEO)**
MARCH	**UNIT-VI:**Extra Features: Additional editing features, Metadata change management, Recycle Bin, Cut, copy, and paste, Snapshots, Metadata Loader (MDL) exports and imports, Synchronizing objects, Changes to tables, Changes todimensional objects and auto-binding, Warehouse Builder online resources.**(Flipped Classroom)** Datawarehousing and OLAP: Defining OLAP, The Value of Multidimensional data, OLAP terminologies, Multidimensional architectures, Multidimensional views of relational data, Physical Multidimensional databases, Data Explosion, Integrated relational OLAP, Data sparsity and data explosion. **(CHALK and TALK,VIDEO)**

Teacher

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Class: M.Sc.IT- SEM-IV **Subject: Computer Forensics**

MONTH	TOPIC
JANUARY	**UNIT-I:** Computer Forensics and Investigation Processes, Understanding Computing Investigation, The Investigator's Office and Laboratory, Data Acquisitions. **(Chalk and talk, PPT, Discussion Method, Videos and Case Study).**
FEBRUARY	**UNIT-II:** Processing Crime and Incident Scenes, Working with windows and DOS Systems, Current Computer Forensics Tools. . **(CHALK and talk, PPT, Discussion Method, Videos and Case Study).** **UNIT-III:** Macintosh and Linux Boot Processes and File Systems, Computer Forensics Analysis, Recovering Graphics Files. **(CHALK and TALK, PPT, Discussion Method, Videos and Case Study).**
MARCH	**UNIT-IV:** Virtual Machines, Network Forensics and Live acquisitions-mail Investigations, Cell Phone and Mobile Device Forensics. **(CHALK and TALK, PPT, Discussion Method, Videos and Case Study).** **UNIT-V:** Report Writing for High-Tech Investigations, Expert Testimony in High-Tech Investigations, Ethics and High-Tech Investigations. **(CHALK and TALK, PPT, Discussion Method, Videos and Case Study).**

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Semester / Term Syllabus Planning

F.Y. BSc-IT ?

DBMS [Sem III rd] S.Y B.Sc IT

MONTHS	TOPICS
JUNE	**UNIT 1:** **Introduction to Databases and Transactions** What is database system, purpose of database system, view of data, relational databases, database architecture, transaction management **Data Models** The importance of data models, Basic building blocks, Business rules, The evolution of data models, Degrees of data abstraction. **Database Design, ER Diagram and Unified Modeling Language** Database design and ER Model: overview, ER Model, Constraints, ER Diagrams, ERD Issues, weak entity sets, Codd's rules, Relational Schemas, Introduction to UML. **UNIT II:** **Relational database model:** Logical view of data, keys, integrity rules, Relational Database design: features of good relational database design, atomic domain and Normalization (1NF, 2NF, 3NF, BCNF). **Relational Algebra and Calculus** Relational algebra: introduction, Selection and projection, set operations, renaming, Joins, Division, syntax, semantics. Operators, grouping and ungrouping, relational comparison.
JULY	**Calculus:** Tuple relational calculus, Domain relational Calculus, calculus vs algebra, computational capabilities. **UNIT III:** **Constraints, Views and SQL** Constraints, types of constrains, Integrity constraints, Views: Introduction to views, data independence, security, updates on views, comparison between tables and views SQL: data definition, aggregate function, Null Values, nested sub queries, Joined relations. Triggers.
AUGUST	**UNIT IV:** **Transaction management and Concurrency** Control Transaction management: ACID properties, serializability and concurrency control, Lock based concurrency control (2PL, Deadlocks), Time stamping methods, optimistic methods, database recovery management.
SEPTEMBER	**UNIT V:** [T.M: Video, PPT] **PL-SQL:** Beginning with PL / SQL, Identifiers and Keywords, Operators, Expressions, Sequences, Control Structures, Cursors and Transaction, Collections and composite data types. Procedures and Functions, Exceptions Handling, Packages, With Clause and Hierarchical Retrieval, Triggers.

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Semester / Term Syllabus Planning

Class: FYIT **Subject: Imperative Programming**

MONTH	TOPIC
JULY	**UNIT 1: Introduction:** Types of Programming languages, History, features and application. Simple program logic, program development cycle, pseudocode statements and flowchart symbols, sentinel value to end a program, programming and user environments, evolution of programming models., desirable program characteristics. **Fundamentals:** Structure of a program. Compilation and Execution of a Program, Character Set, identifiers and keywords, data types, constants, variables and arrays, declarations, expressions, statements, Variable definition, symbolic constants. **UNIT II: Operators and Expressions:** Arithmetic operators, unary operators, relational and logical operators, assignment operators, assignment operators, the conditional operator, library functions.
AUGUST	**UNIT II:** **Data Input and output:** Single character input and output, entering input data, scanf function, printf function, gets and puts functions, interactive programming. **UNIT III: Conditional Statements and Loops:** Decision Making Within A Program, Conditions, Relational Operators, Logical Connectives, If Statement, If-Else Statement, Loops: While Loop, Do While, For Loop. Nested Loops, Infinite Loops, Switch Statement.
SEPTEMBER	**UNIT III:** [TM: chalk & Talk, PPT] **Functions:** Overview, defining and accessing a function, passing arguments to a function, specifying argument data types, function prototypes, recursion, standard library of c functions, prototype of a function: parameter list, return type, function call, block structure, passing arguments to a function: call by reference, call by value. **UNIT IV: Program structure:** Storage classes, automatic variables, external variables, static variables, multifile programs, more library functions. **Arrays:** Definition, processing, passing arrays to functions, multidimensional arrays, arrays and strings. **UNIT IV: Preprocessor:** Features, #define and #include, Directives and Macros
OCTOBER	**UNIT V: Pointers:** [TM: chalk & Talk, PPT] Fundamentals, declarations, Pointers Address Operators, Pointer Type Declaration, Pointer Assignment, Pointer Initialization, Pointer Arithmetic, Functions and Pointers, Arrays And Pointers, Pointer Arrays, passing functions to other functions **Structures and Unions:** Structure Variables, Initialization, Structure Assignment, Nested Structure, Structures and Functions, Structures and Arrays: Arrays of Structures, Structures Containing Arrays, Unions, Structures and pointers.

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Class: S.Y(B.Sc.IT) SEM-IV **Subject: Computer Graphics & Animations**

MONTH	TOPIC
NOVEMBER-DECEMBER	**UNIT-I:** Introduction to Computer Graphics: Overview of Computer Graphics, Computer Graphics Application and Software, Description of some graphics devices, Input Devices for Operator Interaction, Active and Passive Graphics Devices, Display Technologies, Storage Tube Graphics Displays, Calligraphic Refresh Graphics Displays, Raster Refresh (Raster-Scan) Graphics Displays, Cathode Ray Tube Basics, Color CRT Raster Scan Basics, Video Basics, The Video Controller, Random-Scan Display Processor, LCD displays. **(PPT, VIDEO & Flipped classroom)** Scan conversion – Digital Differential Analyzer (DDA) algorithm, Bresenhams' Line drawing algorithm. Bresenhams' method of Circle drawing, Midpoint Circle Algorithm, Midpoint Ellipse Algorithm, Mid-point criteria, Problems of Aliasing, end-point ordering and clipping lines, Scan Converting Circles, Clipping Lines algorithms– Cyrus-Beck, Cohen-Sutherland and Liang-Barsky, Clipping Polygons, problem with multiple components. **(CHALK and TALK)**
JANUARY	**UNIT-II:** Two-Dimensional Transformations:Transformations and Matrices, Transformation Conventions, 2D Transformations, Homogeneous Coordinates and Matrix Representation of 2D Transformations, Translations and Homogeneous Coordinates, Rotation, Reflection, Scaling, Combined Transformation, Transformation of Points, Transformation of The Unit Square, Solid Body Transformations, Rotation About an Arbitrary Point, Reflection through an Arbitrary Line, A Geometric Interpretation of Homogeneous Coordinates, The Window-to-Viewport Transformations. Three-Dimensional Transformations: Three-Dimensional Scaling, Three-Dimensional Shearing, ThreeDimensional Rotation, Three-Dimensional Reflection, ThreeDimensional Translation, Multiple Transformation, Rotation about an Arbitrary Axis in Space, Reflection through an Arbitrary Plane, Matrix Representation of 3D Transformations, Composition of 3D Transformations, Affine and Perspective Geometry, Perspective Transformations, Techniques for Generating Perspective Views, Vanishing Points, the Perspective Geometry and camera models, Orthographic Projections, Axonometric Projections, Oblique Projections, View volumes for projections.**(PPT & VIDEO)** **UNIT-III:** Viewing in 3D : Stages in 3D viewing, Canonical View Volume (CVV), Specifying an Arbitrary 3D View, Examples of 3D Viewing, The Mathematics of Planar Geometric Projections, Combined transformation matrices for projections and viewing, Coordinate Systems and matrices, camera model and viewing pyramid. **(VIDEO)**
FEBRUARY	**UNIT-III:** Light: Radiometry, Transport, Equation, Photometry Color: Colorimetry, Color Spaces, Chromatic Adaptation, Color Appearance **(PPT,VIDEO)** **UNIT-IV:** Visible-Surface Determination: Techniques for efficient Visible-Surface Algorithms, Categories of algorithms, Back face removal, The z-Buffer Algorithm, Scan-line method, Painter's algorithms (depth sorting), Area sub-division method, BSP trees, Visible-Surface Ray Tracing, comparison of the methods. Plane Curves and Surfaces: Curve Representation, Nonparametric Curves, Parametric Curves, Parametric Representation of a Circle, Parametric Representation of an Ellipse, Parametric Representation of a Parabola, Parametric Representation of a Hyperbola, Representation of Space Curves, Cubic Splines, , Bezier Curves, B-spline Curves, B-spline Curve Fit, B-spline Curve Subdivision, Parametric Cubic Curves, Quadric Surfaces. Bezie Surfaces. **(PPT & VIDEO)**
MARCH	**UNIT-V:** Computer Animation: Principles of Animation, Key framing, Deformations, Character Animation, Physics-Base Animation, Procedural Techniques, Groups of Objects. Image Manipulation and Storage: What is an Image? Digital image file formats, Image compression standard - JPEG, Image Processing - Digital image enhancement, contrast stretching, Histogram Equalization, smoothing and median Filtering. **(PPT,VIDEO & CASE STUDIES)**

Teacher Coordinator Principal

Class: F.Y(B.Sc.IT) SEM-II **Subject: Object Oriented Programming**

MONTH	TOPIC
OVEMBER- ECEMBER	**UNIT-I:** Object Oriented Methodology: Introduction, Advantages and Disadvantages of Procedure Oriented Languages, what is Object Oriented? What is Object Oriented Development? Object Oriented Themes, Benefits and Application of OOPS. Principles of OOPS: OOPS Paradigm, Basic Concepts of OOPS: Objects, Classes, Data Abstraction and Data Encapsulation, Inheritance, Polymorphism, Dynamic Binding, Message Passing.**(CHALK and TALK,PPT)**
JANUARY	**UNIT-II:** Classes and Objects: Simple classes (Class specification, class members accessing), Defining member functions, passing object as an argument, Returning object from functions, friend classes, Pointer to object, Array of pointer to object. Constructors and Destructors: Introduction, Default Constructor, Parameterized Constructor and examples, Destructors.**(CHALK and TALK,PPT)** **UNIT-III:** Polymorphism: Concept of function overloading, overloaded operators, overloading unary and binary operators, overloading comparison operator, overloading arithmetic assignment operator, Data Conversion between objects and basic types.**(CHALK and TALK,PPT)**
FEBRUARY	**UNIT-III:** Virtual Functions: Introduction and need, Pure Virtual Functions, Static Functions, this Pointer, abstract classes, virtual destructors. **(CHALK and TALK,PPT)** **UNIT-IV:** Program development using Inheritance: Introduction, understanding inheritance, Advantages provided by inheritance, choosing the access specifier, Derived class declaration, derived class constructors, class hierarchies, multiple inheritance, multilevel inheritance, containership, hybrid inheritance. Exception Handling: Introduction, Exception Handling Mechanism, Concept of throw & catch with example. **(CHALK and TALK,PPT,VIDEO)**
MARCH	**UNIT-V:** Templates: Introduction, Function Template and examples, Class Template and examples. Working with Files: Introduction, File Operations, Various File Modes, File Pointer and their Manipulation. **(CHALK and TALK,VIDEO)**

Teacher

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Class: SYIT-B **Subject: Python Programming**

Month	Topics
June	**Introduction:** The Python Programming Language, History, features, Installing Python, Running Python program, The Difference Between Brackets, Braces, and Parentheses, **Variables and Expressions:** Variables, Variable Names and Keywords, Type conversion, Operators and Operands, Expressions, Interactive Mode and Script Mode, Order of Operations. **Conditional Statements:** if, if-else, nested if –else **Looping**: for, while, nested loops **Control statements:** Terminating loops, skipping specific conditions **Functions:** Function Calls, Type Conversion Functions, Math Functions, Composition, Adding New Functions, Definitions and Uses, Flow of Execution, Parameters and Arguments, Variables and Parameters Are Local, Stack Diagrams, Fruitful Functions and Void Functions, Why Functions?
July	**Strings:** A String Is a Sequence, Traversal with a for Loop, String Slices, Strings Are Immutable, Searching, Looping and Counting, String Methods, The in Operator, String Comparison, String Operations. **Lists:** Values and Accessing Elements, Lists are mutable, traversing a List, Deleting elements from List, Built-in List Operators, Concatenation, Repetition, `In` Operator, Built-in List functions and methods **Tuples and Dictionaries:** Tuples, Accessing values in Tuples, Tuple Assignment, Tuples as return values, Variable-length argument tuples, Basic tuples operations, Concatenation, Repetition, in Operator, Iteration, Built-in Tuple Functions Creating a Dictionary, Accessing Values in a dictionary, Updating Dictionary, Deleting Elements from Dictionary, Properties of Dictionary keys, Operations in Dictionary, Built-In Dictionary Functions, Built-in Dictionary Methods **Files:** Text Files, The File Object Attributes, Directories **Exceptions:** Built-in Exceptions, Handling Exceptions, Exception with Arguments, User-defined Exceptions.
August	**Regular Expressions** – Concept of regular expression, various types of regular expressions. using match function. **Classes and Objects:** Overview of OOP (Object Oriented Programming), Class Definition, Creating Objects, Instances as Arguments, Instances as return values, Built-in Class Attributes, Inheritance, Method Overriding, Data Encapsulation, Data Hiding **Multithreaded Programming:** Thread Module, creating a thread, synchronizing threads, multithreaded priority queue **Modules:** Importing module, Creating and exploring modules, Math module, Random module, Time module. **Creating the GUI Form and Adding Widgets:** **Widgets:** Button, Canvas, Checkbutton, Entry, Frame, Label, Listbox, Menubutton, Menu, Message, Radiobutton, Scale, Scrollbar, text, Toplevel, Spinbox, PanedWindow, LabelFrame, tkMessagebox. **Layout Management:** Designing GUI applications with proper Layout Management features. **Look and Feel Customization:** Enhancing Look and Feel of GUI using different appearances of widgets.
September	**Storing Data in Our MySQL Database via Our GUI :** Connecting to a MySQL database from Python, Configuring the MySQL connection, Designing the Python GUI database, Using the INSERT command, Using the UPDATE command, Using the DELETE command, Storing and retrieving data from MySQL database. TM: EBook, Videos, Practical Demonstration

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Class: TYIT **Subject: Linux Administration**

Month	Topics
June	**Introduction:** Introduction to UNIX, Linux, GNU and Linux distributions **Duties of the System Administrator,** The Linux System Administrator, Installing and Configuring Servers, Installing and Configuring Application Software, Creating and Maintaining User Accounts, Backing Up and Restoring Files, Monitoring and Tuning Performance, Configuring a Secure System, Using Tools to Monitor Security **Booting and shutting down:** Boot loaders-GRUB, LILO, Bootstrapping, Init process, rc scripts, Enabling and disabling services. **The File System:** Understanding the File System Structure, Working with Linux- Supported File Systems, Memory and Virtual File Systems, Linux Disk Management, Network Configuration Files
July	**System Configuration Files:** System wide Shell Configuration Scripts, System Environmental Settings, Network Configuration Files, Managing the init Scripts, Configuration Tool, Editing Your Network Configuration **TCP/IP Networking:** Understanding Network Classes, Setting Up a Network Interface Card (NIC), Understanding Subnetting, Working with Gateways and Routers, Configuring Dynamic Host Configuration Protocol, Configuring the Network Using the Network **The Network File System:** NFS Overview, Planning an NFS Installation, Configuring an NFS Server, Configuring an NFS Client, Using Automount Services, Examining NFS Security **Connecting to Microsoft Networks:** Installing Samba, Configuring the Samba Server, Creating Samba Users 3, Starting the Samba Server, Connecting to a Samba Client, Connecting from a Windows PC to the Samba Server **Additional Network Services:** Configuring a Time Server, Providing a Caching Proxy Server
August	**Internet Services:** Secure Services, SSH, scp, sftp Less Secure Services (Telnet ,FTP, sync,rsh ,rlogin,finger,talk and ntalk, Linux Machine as a Server, Configuring the xinetd Server, Comparing xinetd and Standalone, Configuring Linux Firewall Packages, **Domain Name System:** Understanding DNS, Understanding Types of Domain Servers, Examining Server Configuration Files, Configuring a Caching DNS Server, Configuring a Secondary Master DNS Server, Configuring a Primary Master Server, Checking Configuration **Configuring Mail Services:** Tracing the Email Delivery Process, Mail User Agent (MUA), Introducing SMTP, Configuring Sendmail, Using the Postfix Mail Server, Serving Email with POP3 and IMAP, Maintaining Email Security
September	**Configuring FTP Services:** Introducing vsftpd, Configuring vsftpd, Advanced FTP Server Configuration, Using SFTP **Configuring a Web Server:** Introducing Apache, Configuring Apache, Implementing SSI, Enabling CGI, Enabling PHP, Creating a Secure Server with SSL **System Administration:** Administering Users and Groups Installing and Upgrading Software Packages TM: E Book, Videos, Practical Demonstration.

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Class: FYIT-A & B **Subject: Web Designing**

Class: SYIT-A **Subject: Software Engineering**

Month	Topics
November	**An Introduction:** What is software engineering? Software Development Life Cycle
December	**An Introduction:** Software Engineering Methods; CASE Tools, Attributes of good software. **Socio-technical system:** Essential characteristics of socio technical systems, Emergent System Properties, Systems Engineering. **(PDF E-Book)**
January	**Critical system** : Types of critical system, A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems **Software processes:** Fundamental activities of software process, Different software process models, Process Iteration and Activities. **(PDF E-Book and Videos)** **Project Management:** Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management. **Software Requirements:** Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. **(PDF E-Book)** **Requirements Engineering Processes:** Feasibility study, Requirements elicitation and analysis, Requirements Validations, Requirements Management.
February	**System Models** : Models and its types, Context Models, Behavioral Models, Data Models, Object Models, Structured Methods. **Architectural Design:** Architectural Design Decisions, System Organization, Modular Decomposition Styles, Control Styles. **(PDF E-Book)** **Application Architectures** : Data Processing Systems, Transaction Processing Systems, Event Processing Systems, Language Processing Systems **Object Oriented Design:** Objects and Object Classes, An object Oriented Design Process, Design Evolution. **(PDF E-Book and Videos)** **User Interface Design:** Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation. **(PDF E-Book and Videos)** **Rapid Software Development :** Agile Methods, Extreme Programming, Rapid Application Development, Software Prototyping
March	**Component based Software Engineering:** Components and Component models, The CBSE Process. **Verification and Validation:** Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods. **(PDF E-Book and Videos)** **Software Testing:** System Testing, Component Testing, Test Case Design, Test Automation. **(PDF E-Book and Videos)** **Software Cost Estimation:** Software Productivity, Estimation Techniques, Algorithmic Cost Modeling, Project Duration and Staffing. **(Videos)** **Quality Management:** Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control, Software Measurement and Metrics.**(PDF E-Book and Videos)** **Process Improvement:** Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change, The CMMI Process Improvement Framework. **Security Engineering:** Security Concepts, Security Risk Management, Design for Security, System Survivability. **Service Oriented Software Engineering**: Services as reusable components, Service Engineering, Software Development with Services

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POWAI MUMBAI-76.

s: FYIT-A & B **Subject: Web Designing**

	Topics
er	**Internet and the World Wide Web:** What is Internet? Introduction to internet and its applications, E-mail, telnet, FTP, e-commerce, video conferencing, e-business. Internet service providers, domain name server, internet address, World Wide Web (WWW): World Wide Web and its evolution, uniform resource locator (URL), browsers – internet explorer, Netscape navigator, opera, Firefox, chrome, Mozilla, search engine, web saver – apache, IIS, proxy server, HTTP protocol. **(PDF EBook)**
r	**HTML5:** Introduction, Why HTML5? Formatting text by using tags, using lists and backgrounds, Creating hyperlinks and anchors. Style sheets, CSS formatting text using style sheets, formatting paragraphs using style sheets. **(PDF EBook)**
	HTML5 Page layout and navigation: Creating navigational aids: planning site organization, creating text based navigation bar, creating graphics based navigation bar, creating image map, redirecting to another URL. **(PDF EBook and Videos)** **HTML5 Tables, Forms and Media:** Creating tables: creating simple table with the size of the table, specifying the width of the column, merging table cells, using tables for page layout, formatting tables: applying table borders, applying background and foreground fills, Creating user forms: creating basic form, using check boxes and option buttons, creating lists, additional input types in HTML5 **(Practical Demonstration)** Incorporating sound and video: audio and video in HTML5, HTML multimedia basics, embedding video clips, incorporating audio on web page. **(Practical Demonstration and Videos).** **Java Script:** Introduction, Client-Side JavaScript, Server-Side JavaScript, JavaScript Objects, JavaScript Security. **(PDF EBook and Videos)**
	Operators: Assignment Operators, Comparison Operators, Arithmetic Operators, % (Modulus), ++(Increment), --(Decrement), -(Unary Negation), Logical Operators, Short-Circuit Evaluation, String Operators, Special Operators, ?: (Conditional operator), , (Comma operator), delete, new, this, void **(Videos)** **Statements:** Break, comment, continue, delete, do...while, export, for, for...in, function, if...else, import, labelled, return, switch, var, while, with **(Practical Demonstration and Videos).** **Core JavaScript (Properties and Methods of Each) :** Array, Boolean, Date, Function, Math, Number, Object, String, regExp **(PDF EBook)** **Document and its associated objects:** document, Link, Area, Anchor, Image, Applet, Layer **Events and Event Handlers :** General Information about Events, Defining Event Handlers, event, onAbort, onBlur, onChange, onClick, onDblClick, onDragDrop, onError, onFocus, onKeyDown, onKeyPress, onKeyUp, onLoad, onMouseDown, onMouseMove, onMouseOut, onMouseOver, onMouseUp, onMove, onReset, onResize, onSelect, onSubmit, onUnload. **(Practical Demonstration and Videos).**
	PHP: Why PHP and MySQL? Server-side scripting, PHP syntax and variables, comments, types, control structures, branching, looping, termination, functions, passing information with PHP, GET, POST, formatting form variables, strings and string functions, regular expressions, arrays, number handling, basic PHP errors/problems. **((Practical Demonstration and Videos).** **Advanced PHP and MySQL:** PHP/MySQL Functions, Integrating web forms and databases, Displaying queries in tables, Building Forms from queries, String and Regular Expressions, Sessions, Cookies and HTTP, E-Mail. **(PDF EBook and Videos)**

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Semester Term Syllabus Planning

T.Y.B.Sc.I.T (A+B) Sem – V (2017-18) **Teaching Plan**

Subject: - Network Security

Jun 2017	**Unit –I Computer Security :** Introduction, Need for security, Principles of Security, Types of Attacks **Cryptography :** Plain text and Cipher Text, Substitution techniques, Caesar Cipher, Mono-alphabetic Cipher, Polygram, Polyalphabetic Substitution, Playfair Hill Cipher, Transposition techniques, Encryption and Decryption, Symmetric and Asymmetric Key Cryptography, Steganography, Key Range and Key Size, Possible Types of Attacks **Unit II Symmetric Key Algorithms and AES:** Algorithms types and modes, Overview of Symmetric key Cryptography, Data Encryption Standard (DES),
July 2017	International Data Encryption Algorithm (IDEA), RC4, RC5, Blowfish, Advanced Encryption Standard (AES), Algorithm **Unit – III Asymmetric Key Algorithms, Digital Signatures and RSA:** Brief history of Asymmetric Key Cryptography, Overview of Asymmetric Key Cryptography, RSA algorithm, Symmetric and Asymmetric key cryptography together, Digital Signatures, Knapsack other algorithms (Elliptic curve cryptography, ElGamal, problems with the public key exchange) **Unit – IV Digital Certificates and Public Key Infrastructure (PKI):** Digital Certificates, Private Key Management, The PKIX Model, Public Key Cryptography Standards (PKCS), XML,PKI and Security, Hash functions
Aug 2017	Key Predistribution, Blom's Scheme, Diffie-Hellman Key Predistribution, Kerberos, Diffie-Hellman Key Exchange, The Station-to-station Protocol **Unit – V Network Security, Firewalls and Virtual Private Networks:** Brief Introduction to TCP/IP, Firewalls, IP Security, Virtual Private Networks (VPN), Intrusion **Internet Security Protocols:** Basic concepts, Secure Socket Layer (SSL), Transport Layer Security (TLS), Secure Hyper Text Transfer Protocol (SHTTP), Time Stamping Protocol (TSP), Secure Electronic Transaction (SET), SSL vs SET, 3-D Secure Protocol, Electronic Money, E-mail Security, Wireless Application Protocol (WAP) Security, Security in GSM, Security in 3G
Sep 2017	**Unit VI User Authentication and Kerberos:** Authentication basics, Passwords, Authentication Tokens, Certificate-based Authentication, Biometric Authentication, Kerberos, Key Distribution Center (KDC) , Security Handshake Pitfalls, Single Sign On (SSO) Approaches

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POWAI MUMBAI-76.

Semester / Term Syllab[illegible]anning

S.Y.B.Sc.I.T div B-Sem – III(2017-18) Teaching Plan
Subject: - Computer Networks

Jun 2017	**Unit-I** **Introduction:** Data communications, networks, network types, Internet history, standards and administration. **Network Models:** Protocol layering, TCP/IP protocol suite, The OSI model. **Introduction to Physical layer:** Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance. **Digital and Analog transmission:** Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion. **Introduction:** Data communications, networks, network types, Internet history, standards and administration. **Network Models:** Protocol layering, TCP/IP protocol suite, The OSI model. **Introduction to Physical layer:** Data and signals, periodic analog signals, digital signals, transmission impairment, data rate limits, performance. **Digital and Analog transmission:** Digital-to-digital conversion, analog-to-digital conversion, transmission modes, digital-to-analog conversion, analog-to-analog conversion. **Unit - II** **Bandwidth Utilization: Multiplexing and Spectrum Spreading:** Multiplexing, Spread Spectrum **Transmission media:** Guided Media, Unguided Media
July 2017	**Switching:** Introduction, circuit switched networks, packet switching, structure of a switch. **Introduction to the Data Link Layer:** Link layer addressing, Data Link Layer Design Issues, Error detection and correction, block coding, cyclic codes, checksum, forward error correction, error correcting codes, error detecting codes. Unit –III **Data Link Control:** DLC services, data link layer protocols, HDLC, Point-to-point protocol. **Media Access Control**: Random access, controlled access, channelization, Wired LANs – Ethernet Protocol, standard ethernet, fast ethernet, gigabit ethernet, 10 gigabit ethernet, **Wireless LANs:** Introduction, IEEE 802.11 project, Bluetooth, WiMAX, Cellular telephony, Satellite networks. **Connecting devices and Virtual LANs.**
Aug 2017	**Unit-IV** **Introduction to the Network Layer**: Network layer services, packet switching, network layer performance, IPv4 addressing, forwarding of IP packets, Internet Protocol, ICMPv4, Mobile IP **Unicast Routing:** Introduction, routing algorithms, unicast routing protocols. **Next generation IP:** IPv6 addressing, IPv6 protocol, ICMPv6 protocol, transition from IPv4 to IPv6.
Sep 2017	Unit – V **Introduction to the Transport Layer**: Introduction, Transport layer protocols (Simple protocol, Stop-and-wait protocol, Go-Back-n protocol, Selective repeat protocol, Bidirectional protocols), Transport layer services, User datagram protocol, Transmission control protocol, **Standard Client0Server Protocols:** World wide-web and HTTP, FTP, Electronic mail, Telnet, Secured Shell, Domain name system.

Teacher | Coordinator | Principal

POWAI MUMBAI-76.

T.Y.B.Sc.I.T (A+B) Sem – VI (2017-18)	Subject: - Internet Technology
Nov –Dec 2017	**Unit-I** –Introduction: OSI Model, TCP/IP Protocol Suite, IPV 4 Addresses and Protocol IPV6 Addresses and Protocol **Unit – II** Address Resolution Protocol (ARP), **(PROBLEM SOLVING –on addressing) (PPT)**
Jan 2018	Internet Control Message Protocol Version 4 (ICMPv4), Mobile IP, Unicast Routing Protocols (RIP, OSPF and BGP) **Unit – III** User Datagram Protocol (UDP), Transmission Control Protocol (TCP) **Unit – IV** Stream Control Transmission Protocol (SCTP) **(PPT)**
Feb 2018	Stream Control Transmission Protocol (SCTP)Host Configuration: DHCP, Domain Name System (DNS) **Unit – V** Remote Login: TELNET and SSH, File Transfer: FTP and TFTP ; World Wide Web and HTTP **Unit – VI** Electronic Mail: SMTP -- **(PPT)**
Mar 2018	POP, IMAP and MIME, Multimedia. **(PPT)**

S.Y.B.Sc.I.T (B) Sem – IV (2017-18)	Subject: - Software Engineering
Nov-Dec-2017	**Unit-I - Introduction:** What is software engineering? Software Development Life Cycle, Requirements Analysis, Software Design, Coding, Testing, Maintenance etc. **Software Requirements:** Functional and Non-functional requirements, User Requirements, System Requirements, Interface Specification, Documentation of the software requirements. **Software Processes:** Process and Project, Component Software Processes. **Software Development Process Models.** • Waterfall Model. • Prototyping. • Iterative Development. • Rational Unified Process. • The RAD Model • Time boxing Model. **Agile software development**. Agile methods, Plan-driven and agile development, Extreme programming, **(PPT)**
Jan 2018	Agile project management, Scaling agile methods. **Unit-II - Socio-technical system:** Essential characteristics of socio technical systems, Emergent System Properties, Systems Engineering, Components of system such as organization, people and computers, Dealing Legacy Systems. **Critical system:** Types of critical system, A simple safety critical system, Dependability of a system, Availability and Reliability, Safety and Security of Software systems. **Requirements Engineering Processes:** Feasibility study, Requirements elicitation and analysis, Requirements Validations, Requirements Management. **System Models:** Models and its types, Context Models, Behavioural Models, Data Models, Object Models, Structured Methods. **Unit-III - Architectural Design:** Architectural Design Decisions, System Organisation, Modular Decomposition Styles, Control Styles, Reference Architectures. **User Interface Design:** Need of UI design, Design issues, The UI design Process, User analysis, User Interface Prototyping, Interface Evaluation. **Project Management** Software Project Management, Management activities, Project Planning, Project Scheduling, Risk Management. **Quality Management:** Process and Product Quality, Quality assurance and Standards, Quality Planning, Quality Control, Software Measurement and Metrics. **(PPT – Simulation videos for practical)**
Feb 2018	**Unit-IV- Verification and Validation:** Planning Verification and Validation, Software Inspections, Automated Static Analysis, Verification and Formal Methods. **Software Testing:** System Testing, Component Testing, Test Case Design, Test Automation. **Software Measurement**: Size-Oriented Metrics, Function-Oriented Metrics, Extended Function Point Metrics **Software Cost Estimation:** Software Productivity, Estimation Techniques, Algorithmic Cost Modelling, Project Duration and Staffing **Unit-V- Process Improvement:** Process and product quality, Process Classification, Process Measurement, Process Analysis and Modeling, Process Change, The CMMI Process Improvement Framework. **Service Oriented Software Engineering:** Services as reusable components, Service Engineering, Software Development with Services. **(PPT)**
Mar 2018	**Software reuse:** The reuse landscape, Application frameworks, Software product lines, COTS product reuse. **Distributed software engineering**: Distributed systems issues, Client-server computing. Architectural patterns for distributed systems, Software as a service **(PPT)**

Teacher's Signature

POWAI MUMBAI-76.

Coordinator

Principal

Semester / Term Syllabus Planning

Month	Topics to be covered

Name:Mithilesh Chauhan **Class:SYBSc(IT)**

Subject:Python Programming

Month	Syllabus
June-July	**Unit I:** **Introduction**: The Python Programming Language, History, features, Installing Python, Running Python program **Debugging**: Syntax Errors, Runtime Errors, Semantic Errors, Experimental Debugging, Formal and Natural Languages, The Difference Between Brackets, Braces, and Parentheses, Variables and Expressions Values and Types, Variables, Variable Names and Keywords, Type conversion, Operators and Operands, Expressions, Interactive Mode and Script Mode, Order of Operations. **Conditional Statements**: if, if-else, nested if –else **Looping:** for, while, nested loops **Control statements:** Terminating loops, skipping specific conditions (Chalk-N-Talk)
July	**Unit II:** **Functions:** Function Calls, Type Conversion Functions, Functions, Composition, Adding New Functions, Definitions and Uses, Flow of Execution, Parameters and Arguments, Variables and Parameters Are Local, Stack Diagrams, Fruitful Functions and Void Functions, Why Functions? Importing with from, Return Values, Incremental Development, Composition, Boolean Functions, Recursion, Leap of Faith, Checking Types **Strings**: A String Is a Sequence, Traversal with a for Loop, String Slices, Strings Are Immutable, Searching, Looping and Counting, String Methods, The in Operator, String Comparison, String Operations. (Practical, Chalk-N-Talk) **Unit III:** Lists: Values and Accessing Elements, Lists are mutable, traversing a List, Deleting elements from List, Built-in List Operators, Concatenation, Repetition, In Operator, Built-in List functions and methods **Tuples and Dictionaries**: Tuples, Accessing values in Tuples, Tuple Assignment, Tuples as return values, Variable-length argument tuples, Basic tuples operations, Concatenation, Repetition, in Operator, Iteration, Built-in Tuple Functions Creating a Dictionary, Accessing Values in a dictionary, Updating Dictionary, Deleting Elements from Dictionary, Properties of Dictionary keys, Operations in Dictionary, Built-In Dictionary Functions, Built-in Dictionary Methods **Files:** Text Files, The File Object Attributes, Directories **Exceptions**: Built-in Exceptions, Handling Exceptions, Exception with Arguments, User-defined Exceptions (Chalk-N-Talk, Practical)
August	**Unit IV:** **Regular Expressions** – Concept of regular expression, various types of regular expressions, using match function. **Classes and Objects**: Overview of OOP , Class Definition, Creating Objects, Instances as Arguments, Instances as return values, Built-in Class Attributes, Inheritance, Method Overriding, Data Encapsulation, Data Hiding **Multithreaded Programming**: Thread Module, creating a thread, synchronizing threads, multithreaded priority queue **Modules:** Importing module, Creating and exploring modules, Math module, Random module, Time module
September	**Unit V:** (Chalk-N-Talk) Creating the GUI Form and Adding Widgets: **Widgets:** Button, Canvas, Checkbutton, Entry, Frame, Label, Listbox, Menubutton, Menu, Message, Radiobutton, Scale, Scrollbar, text, Toplevel, Spinbox, PanedWindow, LabelFrame, tkMessagebox. Handling Standard attributes and Properties of Widgets. **Layout Management**: Designing GUI applications with proper Layout Management features.**Look and Feel Customization**: Enhancing Look and Feel of GUI using different appearances of widgets.Storing Data in Our MySQL Database via Our **GUI** : Connecting to a MySQL database from Python, Configuring the MySQL connection, Designing the Python GUI database, Using the INSERT command, Using the UPDATE command, Using the DELETE command, Storing and retrieving data from MySQL database. (PPT)

Mithilesh Chauhan. Sub: Microprocessor Arch. (5497)

December 2017	**UNIT I:** **Microprocessor, microcomputers, and Assembly Language:**Microprocessor, Microprocessor Instruction Set and Computer Languages, From Large Computers to Single-Chip Microcontrollers, Applications. **[Group Discussion]** Microprocessor Architecture and its operation's, Memory, I/O Devices, Microcomputer System, Logic Devices and Interfacing, Microprocessor-Based System Application. **[Chalk-N-Talk]** Introduction, 8085 Microprocessor unit, 8085-Based Microcomputer, Memory Interfacing, Interfacing the 8155 Memory Segment, Illustrative Example: Designing Memory for the MCTS Project, Testing and Troubleshooting Memory Interfacing Circuit, 8085-Based Single-Board microcomputer. **[Chalk-N-Talk]** **UNIT II:** **Introduction to 8085 Instructions:** Data Transfer Operations, Arithmetic Operations, Logic Operation**[Practical Demonstration]**
January 2018	**UNIT II:** **Introduction to 8085 Instructions:** Branch Operation, Writing Assembly Languages Programs, Debugging a Program. **[Practical Demonstration]** Basic Interfacing concepts, Interfacing Output Displays, Interfacing Input Devices, Memory Mapped I/O, Testing and Troubleshooting I/O Interfacing Circuits. **[Chalk-N-Talk]** The 8085 Programming Model, Instruction Classification, Instruction, Data and Storage, Writing assembling and Execution of a simple program, Overview of 8085 Instruction Set, Writing and Assembling Program. **[Practical Demonstration]** **UNIT III: Programming Techniques With Additional Instructions:** Programming Techniques: Looping, Counting and Indexing, Additional Data Transfer and 16-Bit Arithmetic Instructions, Arithmetic Instruction Related to Memory, Logic Operations: Rotate, Logics Operations: Compare, Dynamic Debugging. **[Chalk-N-Talk]**
February 2018	**UNIT III:** **Counters and Time Delays:** Counters and Time Delays, Illustrative Program: Hexadecimal Counter, Illustrative Program: zero-to-nine (Modulo Ten) Counter, Generating Pulse Waveforms, Debugging Counter and Time-Delay Programs. **[Practical Demonstration]** **Stacks and Sub-Routines:** Stack, Subroutine, Restart, Conditional Call, Return Instructions, Advanced Subroutine concepts. **[Practical Demonstration]** **UNIT IV:** **Code Conversion, BCD Arithmetic, and 16-Bit Data Operations:** BCD-to-Binary Conversion, Binary-to-BCD Conversion, BCD-to-Seven-Segment-LED Code Conversion, Binary-to-ASCII and ASCII-to-Binary Code Conversion, BCD Addition, BCD Subtraction, Introduction To Advanced Instructions and Applications, Multiplication, Subtraction With Carry. **[Chalk-N-Talk]** **Software Development System and Assemblers:** Microprocessors-Based Software Development system, Operating System and Programming Tools, Assemblers and Cross-Assemblers, Writing Program Using Cross Assemblers. **[Chalk-N-Talk]** **Interrupts:** The 8085 Interrupt, 8085 Vectored Interrupts, Restart as S/W Instructions, Additional I/O Concepts and processes. **[Chalk-N-Talk]**
March 2018	**UNIT V:** The Pentium and Pentium Pro microprocessors: Introduction, Special Pentium registers, Memory management, Pentium instructions, Pentium Pro microprocessor, Special Pentium Pro features. **[Group Discussion]** Core 2 and later Microprocessors: Introduction, Pentium II software changes, Pentium IV and Core 2, i3, i5 and i7. SUN SPARC Microprocessor: Architecture, Register file, data types and instruction format **[Group Discussion, Chalk-N-Talk]**

Teacher Signature Cooordinator Signature Principal Signature

Mithilesh Chauhan Sub: Embedded System (S4I7)

December 2017	**UNIT I** **Introduction:** Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems **[Group Discussion, Chalk-N-Talk]** **Core of embedded systems:** microprocessors and microcontrollers, RISC and CISC controllers, Big endian and Little endian processors, Application specific ICs, Programmable logic devices, COTS, sensors and actuators, communication interface, embedded firmware, other system components.**[Chalk-N-Talk]**
January 2018	**UNIT I** **Characteristics and quality attributes of embedded systems:** Characteristics, operational and non-operational quality attributes. **[Group Discussion]** **UNIT II** **Embedded Systems – Application and Domain Specific:** Application specific – washing machine, domain specific - automotive. **[Group Discussion]** **Embedded Hardware:** Memory map, i/o map, interrupt map, processor family, external peripherals, memory – RAM , ROM, types of RAM and ROM, memory testing, CRC ,Flash memory.**[Chalk-N-Talk]** **Peripherals:** Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers. **UNIT III** The **8051 Microcontrollers:** Microcontrollers and Embedded processors, Overview of 8051 family. 8051 Microcontroller hardware, Input/output pins, Ports, and Circuits, External Memory.**[Chalk-N-Talk]**
February 2018	**UNIT III:** **8051 Programming in C:** Data Types and time delay in 8051 C, I/O Programming, Logic operations, Data conversion Programs. **[Chalk-N-Talk]** **UNIT IV** **Designing Embedded System with 8051 Microcontroller:** Factors to be considered in selecting a controller, why 8051 Microcontroller, Designing with 8051. **[Practical Demonstration]** **Programming embedded systems:** structure of embedded program, infinite loop, compiling, linking and debugging.**[Practical Demonstration ,Chalk-N-Talk]**
March 2018	**UNIT V** **Real Time Operating System (RTOS):** Operating system basics, types of operating systems, Real-Time Characteristics, Selection Process of an RTOS. **[Chalk-N-Talk]** **Design and Development:** Embedded system development Environment – IDE, types of file generated on cross compilation, disassembler/ de-compiler, simulator, emulator and debugging, embedded product development life-cycle, trends in embedded industry.**[Practical Demonstration]**

Teacher Signature **Cooordinator Signature** **Principal Signature**

	Shift Register:Introduction, parallel and shift registers, serial shifting, serial–in serial–out, serial–in parallel–out , parallel–in parallel–out, Johnson counter, Applications of shift registers, Pseudo-random binary sequence generator, IC7495, Seven Segment displays, analysis of shift counters.(E-book)

Semester / Term Syllabus Planning

Name: Mithilesh Chauhan Subject Digital Elecronics Class: FYBSc(IT)

Month	Syllabus
July	**Number System:** Analog System, digital system, numbering system, binary number system, octal number system, hexadecimal number system, conversion from one number system to another, floating point numbers, weighted codes binary coded decimal, non-weighted codes Excess – 3 code, Gray code, Alphanumeric codes – ASCII Code, EBCDIC, ISCII Code, Hollerith Code, Morse Code, Teletypewriter (TTY), Error detection and correction, Universal Product Code, Code conversion. (problem solving, Chalk-N-Talk) **Binary Arithmetic:** Binary addition, Binary subtraction, Negative number representation, Subtraction using 1's complement and 2's complement, Binary multiplication and division, Arithmetic in octal number system, Arithmetic in hexadecimal number system, BCD and Excess – 3 (problem solving, Chalk-N-Talk)
August	**Unit II: Boolean Algebra and Logic Gates:** Introduction, Logic (AND OR NOT), Boolean theorems, Boolean Laws, De Morgan's Theorem, Perfect Induction, Reduction of Logic expression using Boolean Algebra, Deriving Boolean expression from given circuit, exclusive OR and Exclusive NOR gates, Universal Logic gates, Implementation of other gates using universal gates, Input bubbled logic, Assertion level. (Chalk-N-Talk) **Minterm, Maxterm and Karnaugh Maps:** Introduction, minterms and sum of minterm form, maxterm and Product of maxterm form, Reduction technique using Karnaugh maps – 2/3/4/5/6 variable K-maps, Grouping of variables in K-maps, K-maps for product of sum form, minimize Boolean expression using K-map and obtain K-map from Boolean expression, Quine Mc Cluskey Method. (problem solving) **Unit III:** Combinational Logic Circuits:Introduction, Multi-input, multi-output Combinational circuits, Code converters design and implementations Arithmetic Circuits:Introduction, Adder, BCD Adder, Excess – 3 Adder, Binary Subtractors, BCD Subtractor, Multiplier, Comparator. (problem solving, Chalk-N-Talk)
eptember	**Unit IV:** Multiplexer, Demultiplexer, ALU, Encoder and Decoder: Introduction, Multiplexer, Demultiplexer, Decoder, ALU, Encoders. Sequential Circuits: Flip-Flop: Introduction, Terminologies used, S-R flip-flop, D flip-fop, JK flip-flop, Race-around condition, Master – slave JK flip-flop, T flip-flop,conversion from one type of flip-flop to another, Application of flip-flops. (Chalk-N-Talk) **Unit V:Counters**: Introduction, Asynchronous counter, Terms related to counters, IC 7493 (4-bit binary counter), Synchronous counter, Bushing, Type T Design, Type JK Design, Presettable counter, IC 7490, IC 7492, Synchronous counter ICs, Analysis of counter circuits.(E-book) Shift Register:Introduction, parallel and shift registers, serial shifting, serial–in serial–out, serial–in parallel–out , parallel–in parallel–out, Johnson counter, Applications of shift registers, Pseudo-random binary sequence generator, IC7495, Seven Segment displays, analysis of shift counters.(E-book)

S.Y.B.Sc.I.T odd Semester

MONTH	CONTENTS
JUNE	**Introduction:** Data and Information, Data Structure, Classification of Data Structures, Primitive Data Types, Abstract Data Types, Data structure vs. File Organization, Operations on Data Structure, Algorithm, Importance of Algorithm Analysis, Complexity of an Algorithm, Asymptotic Analysis and Notations, Big O Notation, Big Omega Notation, Big Theta Notation, Rate of Growth and Big O Notation. **Array**: Introduction, One Dimensional Array, Memory Representation of One Dimensional Array, Traversing, Insertion, Deletion, Searching, Sorting, Merging of Arrays, Multidimensional Arrays, Memory Representation of Two Dimensional Arrays, General Multi-Dimensional Arrays, Sparse Arrays, Sparse Matrix, Memory Representation of Special kind of Matrices, Advantages and Limitations of Arrays.
JULY	**Linked List:** Linked List, One-way Linked List, Traversal of Linked List, Searching, Memory Allocation and De-allocation, Insertion in Linked List, Deletion from Linked List, Copying a List into Other List, Merging Two Linked Lists, Splitting a List into Two Lists, Reversing One way linked List, Circular Linked List, Applications of Circular Linked List, Two way Linked List, Traversing a Two way Linked List, Searching in a Two way linked List, Insertion of an element in Two way Linked List, Deleting a node from Two way Linked List, Header Linked List, Applications of the Linked list, Representation of Polynomials, Storage of Sparse Arrays, Implementing other Data Structures. **Stack**: Introduction, Operations on the Stack Memory Representation of Stack, Array Representation of Stack, Applications of Stack, Evaluation of Arithmetic Expression, Matching Parenthesis, infix and postfix operations, Recursion. **Queue:** Introduction, Queue, Operations on the Queue, Memory Representation of Queue, Array representation of queue, Linked List Representation of Queue, Circular Queue, Some special kinds of queues, Deque, Priority Queue, Application of Priority Queue, Applications of Queues. **Advanced Tree Structures:** Red Black Tree, Operations Performed on Red Black Tree, AVL Tree, Operations performed on AVL Tree, 2-3 Tree, B-Tree.
AUGUST	**Sorting and Searching Techniques** Bubble, Selection, Insertion, Merge Sort. Searching: Sequential, Binary, Indexed Sequential Searches, Binary Search. **Tree:** Tree, Binary Tree, Properties of Binary Tree, Memory Representation of Binary Tree, Operations Performed on Binary Tree, Reconstruction of Binary Tree from its Traversals, Huffman Algorithm, Binary Search Tree, Operations on Binary Search Tree, Heap, Memory Representation of Heap, Operation on Heap, Heap Sort.
SEPTEMBER	**Hashing Techniques** Hash function, Address calculation techniques, Common hashing functions Collision resolution, Linear probing, Quadratic, Double hashing, Bucket hashing, Deletion and rehashing **Graph:** Introduction, Graph, Graph Terminology, Memory Representation of Graph, Adjacency Matrix Representation of Graph, Adjacency List or Linked Representation of Graph, Operations Performed on Graph, Graph Traversal, Applications of the Graph, Reachability, Shortest Path Problems, Spanning Trees.

Teacher

Co-ordinator

Principal

S.Y.B.Sc.I.T Even Semester

Months	Contents
December	**Introduction:** History, architecture and its components, Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit, Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler And Interpreter, java programs, java applications, main(), public, static, void, string[] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name. **PPT, Video** **Data types:** primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operators, Arithmetic operators, assignment operators, increment and decrement operator, relational operator, logical operator, bitwise operator, conditional operator. **PPT** **Control Flow Statements:** The If...Else If...Else Statement, The Switch...Case Statement. **PPT**
January	**Iterations:** The While Loop, The Do ... While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement. **PPT** **Classes:** Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading, Variable Arguments [Varargs], Constructors, this Instance, super Instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection. **PPT** **Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords. **PPT** Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces, What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces. **PPT** **Packages:** Creating Packages, Default Package, Importing Packages, Using A Package. **PPT**
February	**Enumerations, Arrays:** Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector. **PPT** **Multithreading:** the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class. **PPT** **Exceptions:** Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause **PPT** **Byte streams:** reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file.**PPT** **Event Handling:** Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes. **PPT**
March	**Abstract Window Toolkit:** Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas. Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames. **PPT** **Layouts:** Flow Layout, Grid Layout, Border Layout, Card Layout. **PPT**

Teaching Methodologies: Real World Learning, Brainstorm,Question and Answer, Discussion, Discovery Learning

Teacher

Co-ordinator

Principal

S.Y.B.Sc.I.T Even Semester

Months	Contents
December	**Introduction:** History, architecture and its components, Java Class File, Java Runtime Environment, The Java Virtual Machine, JVM Components, The Java API, java platform, java development kit, Lambda Expressions, Methods References, Type Annotations, Method Parameter Reflection, setting the path environment variable, Java Compiler And Interpreter, java programs, java applications, main(), public, static, void, string[] args, statements, white space, case sensitivity, identifiers, keywords, comments, braces and code blocks, variables, variable name. **PPT, Video** **Data types:** primitive data types, Object Reference Types, Strings, Auto boxing, operators and properties of operators, Arithmetic operators, assignment operators, increment and decrement operator, relational operator, logical operator, bitwise operator, conditional operator. **PPT** **Control Flow Statements:** The If...Else If...Else Statement, The Switch...Case Statement. **PPT**
January	**Iterations:** The While Loop, The Do ... While Loop, The For Loop, The Foreach Loop, Labeled Statements, The Break And Continue Statements, The Return Statement. **PPT** **Classes:** Types of Classes, Scope Rules, Access Modifier, Instantiating Objects From A Class, Initializing The Class Object And Its Attributes, Class Methods, Accessing A Method, Method Returning A Value, Method's Arguments, Method Overloading, Variable Arguments [Varargs], Constructors, this Instance, super instance, Characteristics Of Members Of A Class, constants, this instance, static fields of a class, static methods of a class, garbage collection. **PPT** **Inheritance:** Derived Class Objects, Inheritance and Access Control, Default Base Class Constructors, this and super keywords. **PPT** Abstract Classes And Interfaces, Abstract Classes, Abstract Methods, Interfaces, What Is An Interface? How Is An Interface Different From An Abstract Class?, Multiple Inheritance, Default Implementation, Adding New Functionality, Method Implementation, Classes V/s Interfaces, Defining An Interface, Implementing Interfaces. **PPT** **Packages:** Creating Packages, Default Package, Importing Packages, Using A Package. **PPT**
ebruary	**Enumerations, Arrays:** Two Dimensional Arrays, Multi-Dimensional Arrays, Vectors, Adding Elements To A Vector, Accessing Vector Elements, Searching For Elements In A Vector, Working With The Size of The Vector. **PPT** **Multithreading:** the thread control methods, thread life cycle, the main thread, creating a thread, extending the thread class. **PPT** **Exceptions:** Catching Java Exceptions, Catching Run-Time Exceptions, Handling Multiple Exceptions, The finally Clause, The throws Clause **PPT** **Byte streams:** reading console input, writing console output, reading file, writing file, writing binary data, reading binary data, getting started with character streams, writing file, reading file.**PPT** **Event Handling:** Delegation Event Model, Events, Event classes, Event listener interfaces, Using delegation event model, adapter classes and inner classes. **PPT**
March	**Abstract Window Toolkit:** Window Fundamentals, Component, Container, Panel, Window, Frame, Canvas. Components – Labels, Buttons, Check Boxes, Radio Buttons, Choice Menus, Text Fields, Text, Scrolling List, Scrollbars, Panels, Frames. **PPT** **Layouts:** Flow Layout, Grid Layout, Border Layout, Card Layout. **PPT**

Teaching Methodologies: Real World Learning, Brainstorm,Question and Answer, Discussion, Discovery Learning

Teacher | Co-ordinator | Principal

odd Semester.

T.Y.B.Sc.I.T

MONTH	CONTENTS
JUNE	**Event Handling:** The delegation event model, Events, Event classes, Event Listener Interfaces, Using the Delegatiion event model, Adapter classes, inner classes **AWT :** Windows fundamentals, Working with frame windows, Control fundamentals, - Labels, Buttons, CheckBox, Radio button TextFileld, Understanding Layout Manager **Swing:** JColorChooser, JComboBox, JFileChooser, JInternalFrame, JLabel, JMenuBar, JOptionPane, JLayeredPane, JDesktopPane, JPanel, JPopupMenu, JProgressBar, JRootPane, JScrollBar, JScrollPane, JSeparator, JSlider, JSplitPane, JTabbedPane, JTable, JTableHeader, JtoolBar, JToolTip, JTree, JViewPort, JEditorPane, JTextPane, JTextArea, JTextField, JPasswordField, JButton, JMenuItem, JCheckBox-MenuItem, JRatioButton-MenuItem JCheckBox, JRadioButton, JMenu.
JULY	**Introduction to servlets:** Need for dynamic content, java servlet technology, why servlets? **Servlet API and Lifecycle:** servlet API, servletConfig interface, ServletRequest and ServletResponse Interfaces, GenericServlet Class. ServletInputStream And ServletOutputStream Classes, RequestDispatcher Interface,HttpServlet Class, HttpServletRequest and HttpServletResponse Interfaces, HttpSession Interface, Servlet Lifecycle. **Working with servlets:** organization of a web application, creating a web application(using netbeans) , creating a servlet, compiling and building the web application **JDBC:** Design of JDBC, JDBC configuration, Executing SQL statement, Query Execution, Scrollable and updatable result sets, row sets, metadata, Transaction.
AUGUST	**JSP:** Introduction, disadvantages, JSP v/s Servlets, Lifecycle of JSP, Comments, JSP documents, JSP elements, Action elements, implicit objects, scope, characterquoting conventions, unified expression language. **Java server Faces :** Need of MVC , what is JSF?, components of JSF, JSF as an application, JSF lifecycle, JSF configuration, JSF web applications (login form, JSF pages) **EJB:** Enterprise bean architecture, Benefits of enterprise bean, types of beans, Accessing beans , packaging beans, creating web applications, creating enterprise bean, creating web client, creating JSP file, building and running web application.
SEPTEMBER	**HIBERNATE:** Introduction, Writing the application, application development approach, creating database and tables in MySQL, creating a web application, Adding the required library files, creating a java bean class, creating hibernate configuration and mapping file, adding a mapping resource, creating JSPs. **STRUTS:** Introduction, Struts framework core components, installing and setting up struts, getting started with struts.

Teacher

Co-ordinator

Principal

TYBMS	INTERNATIONAL FINANCE
Dec	Introduction to International Finance: • Meaning/ Importance of International Finance, Scope of international Finance, Globalization of the World Economy, Goals of International Finance, The Emerging Challenges in International Finance b) Balance of Payment: • Introduction to Balance of Payment, Accounting Principles in Balance of Payment, Components of Balance of Payments, Balance of Payment Identity Indian Heritage in Business, Management, Production and Consumption. c) International Monetary Systems: • Evolution of International Monetary System , Gold Standard System , Bretton Woods System, Flexible Exchange Rate Regimes – 1973 to Present, Current Exchange Rate Arrangements, European Monetary System, Fixed & Flexible Exchange Rate System d) An introduction to Exchange Rates: • Foreign Bank Note Market, Spot Foreign Exchange Market • Exchange Rate Quotations Direct♣ & Indirect Rates Cross Currency Rates♣ Spread♣ & Spread % • Factors Affecting Exchange Rates
Jan	a) Foreign Exchange Markets: • Introduction to Foreign Exchange Markets, Structure of Foreign Exchange Markets, Types of Transactions & Settlement Date, Exchange Rate Quotations & Arbitrage, Forward Quotations (Annualized Forward Margin) b) International Parity Relationships & Foreign Exchange Rate: • Interest Rate Parity, Purchasing Power Parity & Fishers Parity, Forecasting Exchange Rates (Efficient Market Approach, Fundamental Approach, Technical Approach, Performance of the Forecasters), Global Financial Markets & Interest Rates (Domestic & Offshore Markets, Money Market Instruments) c) Currency & Interest Rate Futures: • Introduction to Currency Options (Option on Spot, Futures & Futures Style Options), Futures Contracts, Markets & the Trading Process, Hedging & Speculation with Interest Rate Futures, Currency Options in India
Feb	Euro Currency Bond Markets: • Introduction to Euro Currency Market, Origin of Euro Currency Market, Euro Bond Market (Deposit, Loan, Notes Market), Types of Euro Bonds, Innovation in the Euro Bond Markets, Competitive Advantages of Euro Banks, Control & Regulation of Euro Bond Market b) International Equity Markets & Investments: • Introduction to International Equity Market, International Equity Market Benchmarks, Risk & Return from Foreign Equity Investments, Equity Financing in the International Markets, Depository Receipts – ADR,GDR,IDR c) International Foreign Exchange Markets: • Meaning of International Foreign Exchange Market, FERA v/s FEMA, Scope & Significance of Foreign Exchange Markets, Role of Forex Manager, FDI v/s FPI, Role of FEDAI in Foreign Exchange Market d) International Capital Budgeting: • Meaning of Capital Budgeting, Capital Budgeting Decisions, Incremental Cash Flows, Cash Flows at Subsidiary and Parent Company, Repatriation of Profits, Capital Budgeting Techniques – NPV
March	Foreign Exchange Risk Management: • Introduction to Foreign Exchange Risk Management, Types of Risk, Trade & Exchange Risk, Portfolio Management in Foreign Assets, Arbitrage & Speculation b) International Tax Environment: • Meaning of International Tax Environment, Objectives of Taxation, Types of Taxation, Benefits towards Parties doing Business Internationally, Tax Havens, Tax Liabilities c) International Project Appraisal: • Meaning of Project Appraisal, Review of Net Present Value Approach (NPV), Option Approach to Project Appraisal, Project Appraisal in the International Context, Practice of Investment Appraisal

POWAI MUMBAI-76.

Teacher

Co-ordinator

Principal

TYBAF	FINANCIAL Account -7
Dec	Conversion as per AS 11 and incorporation in HO accounts
Jan	Valuation of Goodwill Maintainable Profit method, Super Profit Method Capitalization method, Annuity Method Valuation of Shares Intrinsic Value Method, Yield method and Fair Value Method
Feb	Final Accounts as per Double Account System - Final Accounts as per Electricity Rules - Receipt & Expenditure on Capital Account - General Balance Sheet - Contingency Reserve Disposal of Surplus (As per Electricity Rules): Norms regarding Disposal of Surplus Replacement of Assets Simple practical problems Provisions of Maharashtra State Co-Operative Societies Act and rules. Accounting provisions including appropriation to various funds Format of Final Accounts – Form N Simple practical problems on preparation of final accounts of a Co-Operative housing society & Consumer Co-Operative Society
March	Rivision

TYBAF	Business law
Dec	(a) Nature of Contract (b) Classification of Contracts
Jan	(c) Offer and Acceptance (d) Capacity of Parties to Contract (e) Free Consents (f) Consideration (g) Legality of Object (h) Agreement Declared Void (i) Performance of Contract (j) Discharge of Contract (k) Remedies for Breach of Contract (l) Indemnity (m)Guarantee (n) Bailment and Pledge (o) Agency
Feb	) Formation of Contract of Sale (b) Goods and their Classifications (c) Price, Conditions and Warranties (d) Transfer of Properties in Goods (e) Performance of Contract of Sales (f) Unpaid Seller and his Rights (g) Sale by Auction (h) Hire Purchase Agreement
March	Rivision

Sybms	Auditing
Dec	Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing – Primary and Secondary, Expression of opinion, Detection of Frauds and Errors, Inherent limitations of Audit. Difference between Accounting and Auditing, Investigation and Auditing. • Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error – Commission, Omission, Compensating error. Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud • Principles of Audit – Integrity, Objectivity, Independence, Skills, Competence, Work performed by others, Documentation, Planning, Audi Evidence, Accounting System and Internal Control, Audit Conclusions and Reporting • Types of Audit – Meaning, Advantages, Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit
Jan	Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach. • Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work , Instruction before commencing Work, Overall Audit Approach • Audit Working Papers - Meaning, importance, Factors

Teacher

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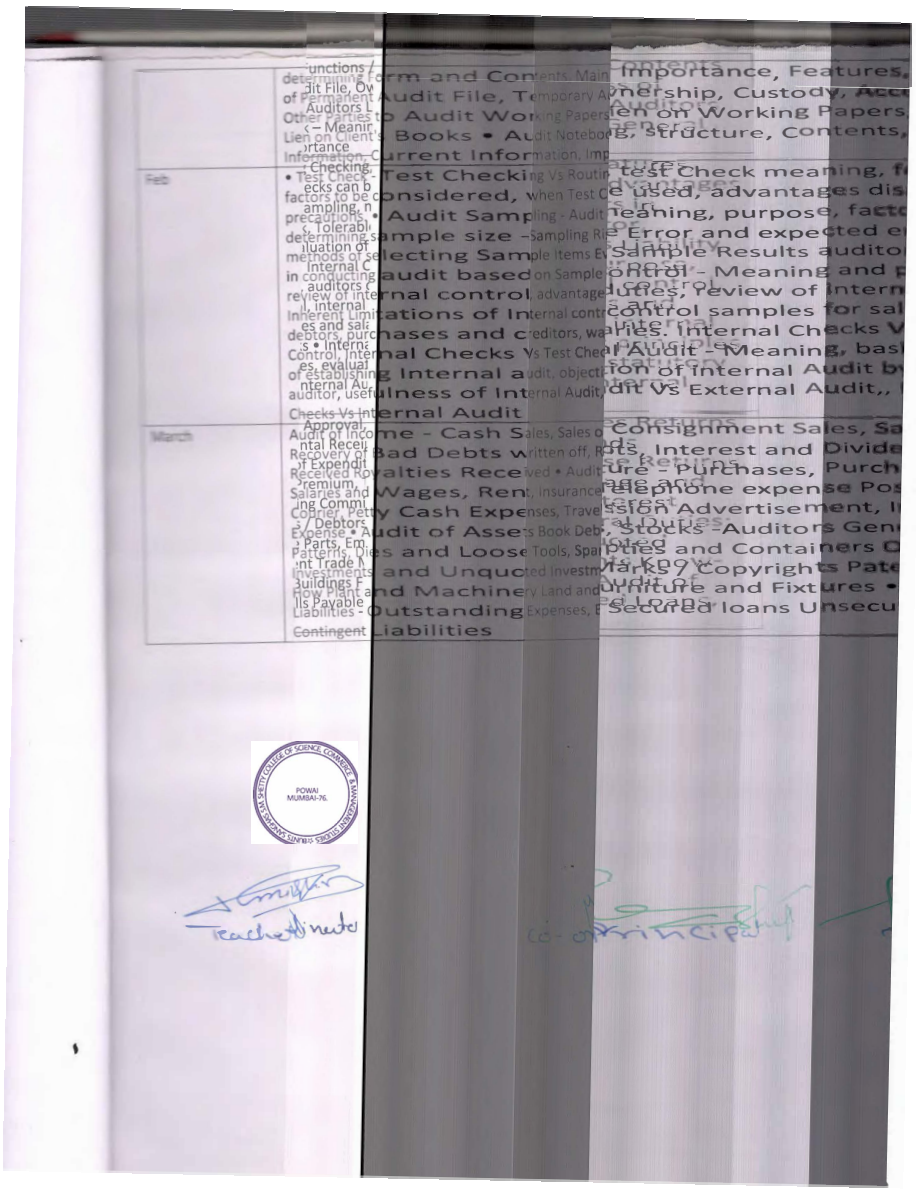
Co-ordinator

Principal



	determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books • Audit Notebook – Meaning, structure, Contents, General Information, Current Information, Importance
Feb	• Test Check - Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages disadvantages precautions. • Audit Sampling - Audit Sampling, meaning, purpose, factors in determining sample size -Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample • Internal Control - Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, Inherent Limitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks • Internal Audit - Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit,, Internal Checks Vs Internal Audit
March	Audit of Income - Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received • Audit of Expenditure - Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense • Audit of Assets Book Debts / Debtors, Stocks -Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures • Audit of Liabilities - Outstanding Expenses, Bills Payable Secured loans Unsecured Loans; Contingent Liabilities

POWAI MUMBAI-76.

Teacher

Co-ordinator

Principal

Semester / Term Syllabus Planning

TYBAF-Audit

JUNE	Code of Ethics with special reference to the relevant provisions of The Chartered Accountant Act, 1949 and the Regulations thereunder The Chartered Accountant Act, 1949 Schedules Members who are deemed to be in Practice Significance of the Certificate of Practice Disabilities for purpose of Membership Disciplinary Procedure Professional Misconduct
JULY	Powers & Duties of Auditors, Liabilities of Auditors Branch Audit, Joint Audit, Special Audit, Tax Audit Reporting requirement under the Companies Act Qualifications in Audit Report, Disclaimers in Audit Report Adverse Opinion, Disclosures, Reports & Certificate
AUGUST	Special aspects of CIS Audit Environment , Need for review of internal control especially procedure controls and facility controls Approach to audit in CIS environment Use of computer for internal and management audit purposes Audit tools, test packs, computerized audit programmes Special aspects in Audit of E-Commerce Transaction.
SEPTEMBER	Rivision....

TYBMS-SFM

JUNE	Dividend Decision and XBRL a) Dividend Decision: • Meaning and Forms of Dividend, Dividend-Modigliani and Miller's Approach, Walter Model, Gordon Model, Factors determining Dividend Policy, Types of Dividend Policy b) XBRL: • Introduction, Advantages and Disadvantages, Features and Users 2 Capital Budgeting and Capital Rationing a) Capital Budgeting: • Risk and Uncertainty in Capital Budgeting, Risk Adjusted Cut off Rate, Certainty Equivalent Method, Sensitivity Technique, Probability Technique, Standard Deviation Method, Co-efficient of Variation Method, Decision Tree Analysis, Construction of Decision Tree.
JULY	b) Capital Rationing: • Meaning, Advantages, Disadvantages, Practical Problems 3 Shareholder Value and Corporate Governance/ Corporate Restructuring a) Shareholder Value and Corporate Governance:
AUGUST	• Financial Goals and Strategy, Shareholder Value Creation: EVA and MVA Approach, Theories of Corporate Governance, Practices of Corporate Governance in India b) Corporate Restructuring:
SEPTEMBER	• Meaning, Types, Limitations of Merger, Amalgamation, Acquisition, Takeover, Determination of Firm's Value, Effect of Merger on EPS and MPS, Pre Merger and Post Merger Impact. 4 Financial Management in Banking Sector and Working Capital Financing a) Financial Management in Banking Sector: • An Introduction, Classification of Investments, NPA & their Provisioning, Classes of Advances, Capital Adequacy Norms, Rebate on Bill Discounting, Treatment of Interest on Advances b) Working Capital Financing: • Maximum Permissible Bank Finance (Tandon Committee), Cost of issuing Commercial Paper and Trade Credit, Matching Approach, Aggressive Approach, Conservative Approach

Teacher Co-ordinator Principal

Semester / Term Syllabus Planning

Month	Topics to be covered

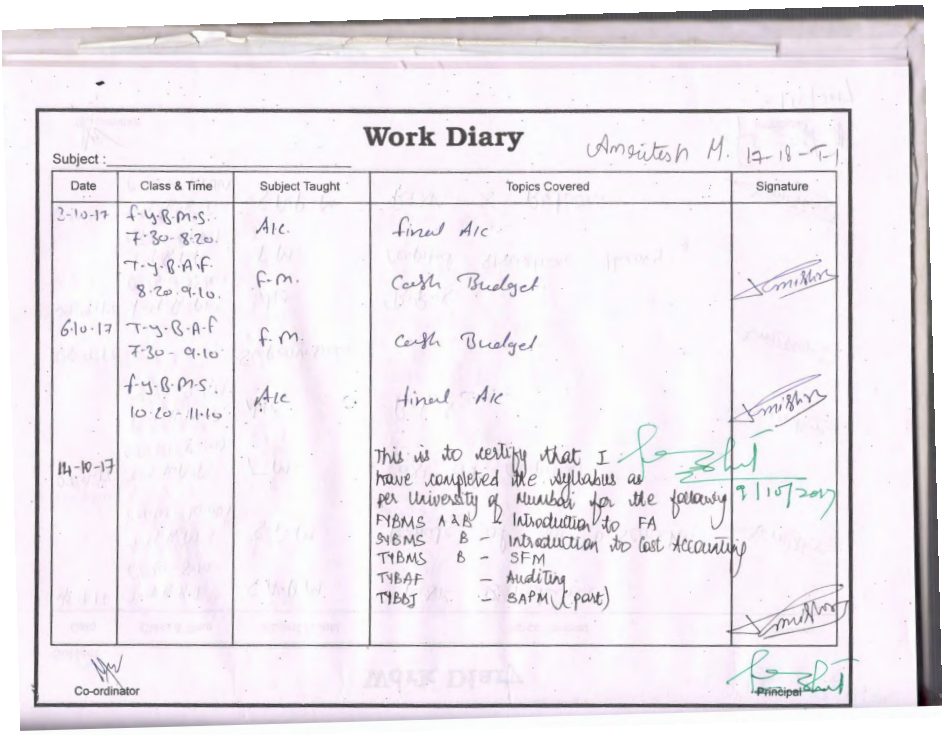
TYBBI-SAPM

JUNE	INVESTMENT ALTERNATIVES,INTRODUCTION TO SECURITY MARKET,
JULY	Portfolio Theory THE TIME VALUE OF MONEY, RISK AND RETURN
AUGUST	Introduction to Fundamental Analysis Efficient Market Hypothesis
SEPTEMBER	Revision and other PRACTICAL PROBLEMS

SYBMS- Intro To Cost Accounting

JUNE	**Meaning, Nature and scope-Objective of Cost Accounting-Financial Accounting v/s Cost Accounting- Advantages and disadvantages of Cost AccountingElements of Costs-Cost classification (concept only)- - Installation of Cost Accounting System, Process (Simple and Inter process) and Job Costing (Practical Problems)**
JULY	• Material Costing- Stock valuation (FIFO & weighted average method), EOQ, EOQ with discounts, Calculation of Stock levels (Practical Problems) • Labour Costing – (Bonus and Incentive Plans) (Practical Problems) • Overhead Costing (Primary and Secondary Distribution.
AUGUST	Cost Sheet (Current and Estimated)) (Practical Problems) • Reconciliation of financial accounts and cost accounting (Practical Problems
SEPTEMBER	Uniform Costing and Interfirm Comparison, Emerging Concepts – Target Costing, Benchmarking, JIT, The Balanced Scorecard; Strategic Based Control; concept, process, implementation of Balanced Scorecard, Challenges in implementation of Balanced Scorecard

Teacher Coordinator Principal



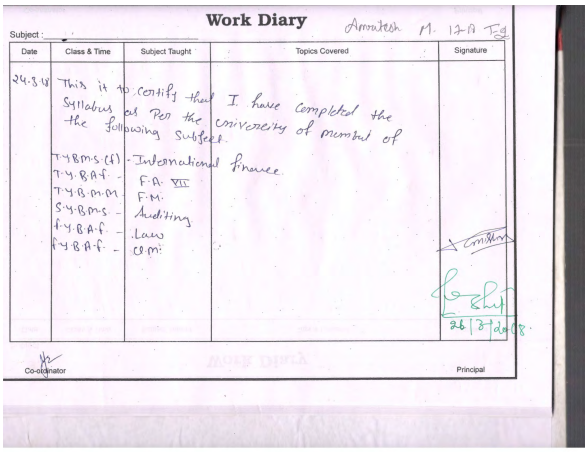
Work Diary

Subject : _____ Amrutesh M. 17-18-T-1

Date	Class & Time	Subject Taught	Topics Covered	Signature
2-10-17	f.y.B.M.S. 7.30-8.20	A/c	final A/c	
	T.y.B.A.F. 8.20-9.10	f.m.	Cash Budget	
6-10-17	T.y.B.A.F 7.30-9.10	f.m.	Cash Budget	
	f.y.B.M.S. 10.20-11.10	A/c	final A/c	
14-10-17			This is to certify that I have completed the syllabus as per University of Mumbai for the following FYBMS A & B - Introduction to FA SYBMS B - Introduction to Cost Accounting TYBMS B - SFM TYBAF - Auditing TYBBI - SAPM (part)	9/10/2017

Co-ordinator

Principal



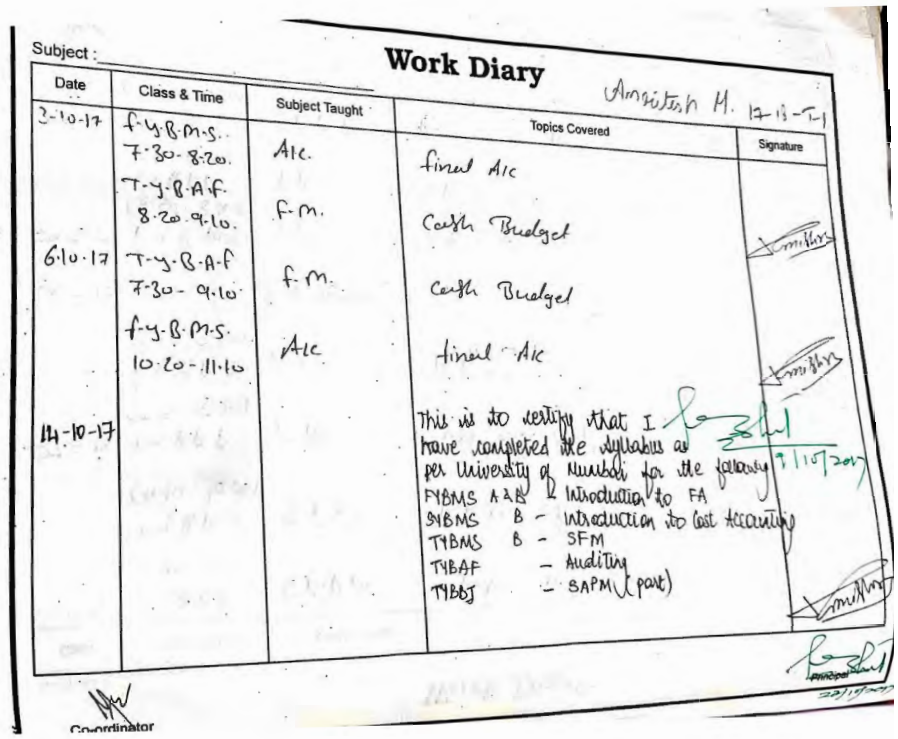
Work Diary

Subject :

Date	Class & Time	Subject Taught	Topics Covered	Signature
24.3.18	This it to certify that I have completed the Syllabus as Per the University of mumbai of the following Subject.			
	T.Y.B.M.S.(F)	International finance		
	T.Y.B.A.F.	F.A. VII		
	T.Y.B.M.M.	F.M.		
	S.Y.B.M.S.	Auditing		
	F.Y.B.A.F.	Law		
	F.Y.B.A.F.	C.O.M.		

Co-ordinator

Principal



Subject :

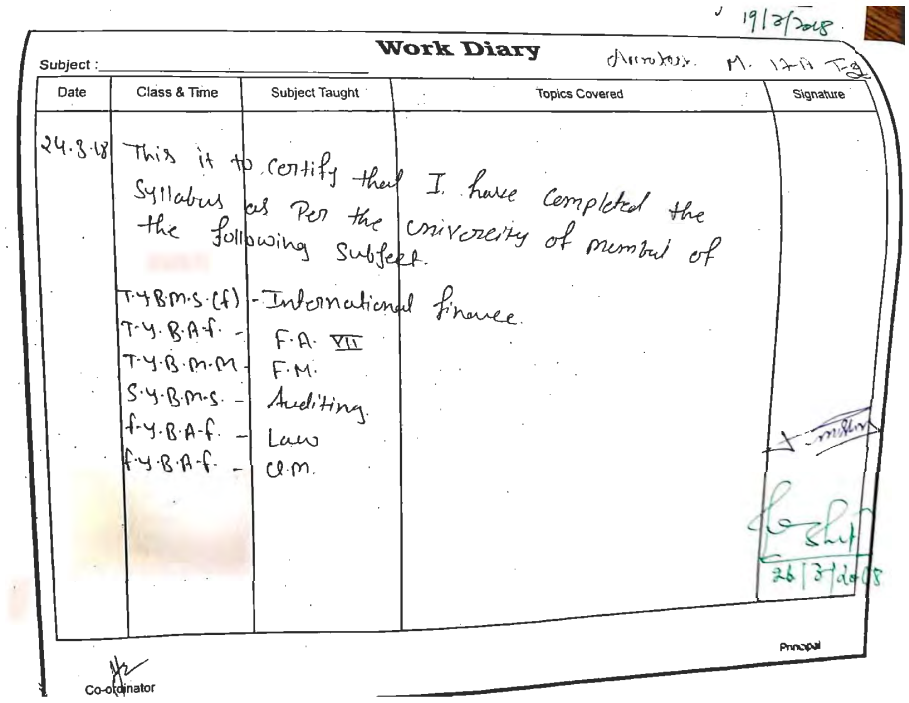
Work Diary

Amrutesh M. 17-18-T-1

Date	Class & Time	Subject Taught	Topics Covered	Signature
3-10-17	f.y.B.M.S. 7.30-8.20.	A/c.	final A/c	
	T.y.B.A.f. 8.20-9.10.	f.m.	Cash Budget	
6.10.17	T.y.B.A.f 7.30-9.10	f.m.	Cash Budget	
	f.y.B.M.S. 10.20-11.10	A/c	final A/c	
14-10-17			This is to certify that I have completed the syllabus as per University of Mumbai for the following 9/10/2017 FYBMS A & B - Introduction to FA SYBMS B - Introduction to Cost Accounting TYBMS B - SFM TYBAF - Auditing TYBBJ - SAPM (part)	

Coordinator

Principal



19/3/2018

Work Diary

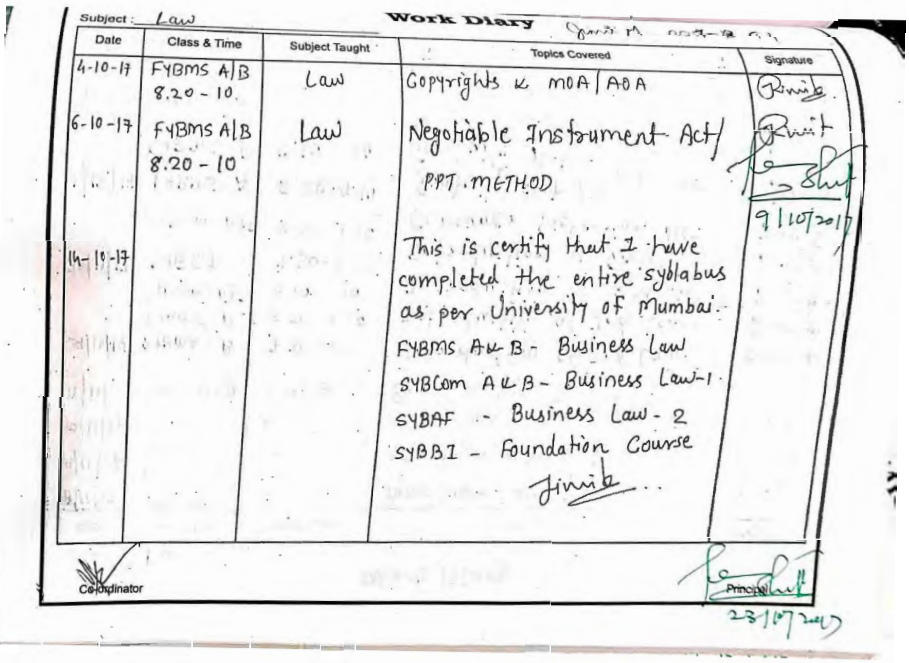
Subject : _____

Date	Class & Time	Subject Taught	Topics Covered	Signature
24.3.18	This it to certify that I have completed the Syllabus as Per the University of mumbai of the following Subject.			
	T.Y.B.M.S.(I)	- International finance.		
	T.Y.B.A.f.	- F.A. VII		
	T.Y.B.M.M.	- F.M.		
	S.Y.B.M.S.	- Auditing.		
	f.Y.B.A.f.	- Law		
	f.Y.B.A.f.	- C.M.		

26/3/2018

Co-ordinator

Principal



Subject : Law

Work Diary

Date	Class & Time	Subject Taught	Topics Covered	Signature
4-10-17	FYBMS A|B 8.20 - 10	Law	Copyrights & MOA|AOA	Jinita
6-10-17	FYBMS A|B 8.20 - 10	Law	Negotiable Instrument Act| PPT METHOD	Jinita 9|10|2017
14-10-17			This is certify that I have completed the entire syllabus as per University of Mumbai. FYBMS A & B - Business Law SYBCom A & B - Business Law-1 SYBAF - Business Law - 2 SYBBI - Foundation Course Jinita	

Co-ordinator

Principal

23/10/2017

Subject : Law

Work Diary

Jimit M 2017-A-72

Date	Class & Time	Subject Taught	Topics Covered	Signature
24/3/18			This is certify that I have completed the entire syllabus as per University of Mumbai FYBMS - A & B - Ind. Law SYBCom A & B - Business law-2 SYBBI - Corporate Law FYBBI - Business law Jimit Shah 26/3/2018.	

Work Diary Pooja Shetty 2017-18

Subject : _____

Date	Class & Time	Subject Taught	Topics Covered	Signature
			I hereby declare that I have completed the allotted syllabus of following subjects. 2017-18 Sem III SYBMS — FC III Sem III SYBMS — Consumer Beh. Sem III SYBCOM — Advertising Sem V TYBMS — Service Mktg 10/10/17	

Co-ordinator

Principal

22/10/2017

Subject :

Work Diary

Staff: S. 1718 - T-1

Date	Class & Time	Subject Taught	Topics Covered	Signature
10/11 to [illegible]	~~10.00-12.30~~ ~~[illegible]~~		SY Supervision, & TY supervision, FY supervision & Assessment.	
28/11	I hereby declare that I have completed the syllabus of the subject allotted to me FYBMS-FHS, SYBMS-BDEM, TYBMS-EDM, TYBCOM-Marketing.			
29/11	7.30-8.20. SYBMS A	Ethics	Introduction to the subject.	
	8.20-9.10 FYBMS 'A'	POM	Introduction to the subject	
	9.10-10.00 TYBMS 'A'	Retail Mgmt	Introduction to the subject	
30/11	7.30-8.20 FYBMS 'A'	POM	Introduction to Management	
	8.20-9.10 SYBMS 'A'	Ethics	Ethics & Business Ethics	
~~[illegible]~~	9.10-10.00 TYBMS 'A'	Retail Mgmt.	Retailing concepts	
2/12	7.30-8.20 TYBMS 'A'	Retail Mgmt.	Project discussion Introduction Meaning & Significance	
	9.10-10.00 SYBMS A&B	Ethics.	Introduction to the Subject.	

Co-ordinator

Principal

Subject :

Work Diary

Staff S. 1718. T-2

Date	Class & Time	Subject Taught	Topics Covered	Signature
29/03			I hereby declare that I have completed the syllabus of the papers allotted to me for the second term of AY 2017-18 TYBCOM- Human Resource Mgmt TYBMS - Retail Mgmt SYBMS- Ethics & Governance FYBMS - Principles of Mgmt.	
26-03 to 12-05			Supervision & Paper assessment.	28/3/2018

Work Diary

Subject : _____ CA Tarak R. 1718 - T1

Date	Class & Time	Subject Taught	Topics Covered	Signature
14-10-17			This is certify that I have completed the entire syllabus as per Mumbai University. in the following classes. SYBMS A & B - Accounting for Managerial Decisions. SYBCom A & B - Accountancy & financial Management TYBMS B - Commodities & derivatives Markets TYBBI - Security analysis and Portfolio Management (Part)	23/10/17

Subject :

Work Diary

C.A. [illegible] R 17-18/2

Date	Class & Time	Subject Taught	Topics Covered	Signature
24-03-18			This is to declare that I have completed the entire syllabus as per University of Mumbai in the following classes. SYBMS B - Strategic Cost Management SYBCOM A & B - Accountancy & Financial Management SYBAF - Research Methodology in Accountancy & finance (Part) TYBMS B - Risk Management TYBAF - Financial Management [signature] Rangwala	

Co-ordinator

Principal
26/3/2018

Semester / Term Syllabus Planning

SYBAF (SEM-III)
Business Law

	Modules / units
June	Factories Act, 1948 a) Definitions • Section 2 (k) – Manufacturing Process, • Section2 (l) – Workers • Section 2 (m)– Factory
July	Factories Act, 1948 b) Provisions pertaining to i. Health- Section 11 to Section 20 ii. Safety- Section 21 to Section 41 iii. Welfare- Section 42 to Section 49
July/ August	Limited Liability Paqrtnership Act, 2008 a) Concept , Formation, Membership and Functioning of Partnership
September	Limited Liability Paqrtnership Act, 2008 a) Dissolution of Partnership b) Revision

SYBBI (SEM-III)
Foundation Course

	Modules / units
June	Review of functioning of banks , Liabilities and Assets of Banks, Net worth, Off Balance Sheet Items New Products : Deposit and Loan Products Housing finance, Hire Purchase, Leasing, Factoring and Forfeiting, Merchant Banking, Mutual Funds, consumer Loans , Venture Capital Financing , Banks as credit financial supermarket/ maturity and return profiles of new products . Securitization and its process.
July	New Financial services provided by banks- investment portfolio management services, advice on money management, tax services Electronic Payment systems (Indian- NEFT, RTGS , International – SWIFT) Debit Cards and Credit Cards – Concept and Process. E- Banking INVESTMENT BANKING and PRODUCTS
August	Insurance- Concept, functions, Types(Life and General) , New Insurance Products. Integration of third party and Re-insurance ,Co-existence of Banking and Insurance – their problems . Insurance as a cover to Banking risks Types of Risks, (systematic and unsystematic) Bank Assurance
September	Privatization of Insurance Business in India, Banking and Insurance Regulation Self Regulation and Installation of Corporate Governance. Future strategies for promoting insurance in India. Implications for Risk Management, Derivatives in Banking, Innovations in credit appraisal system.

Teacher Co-ordinator Principal

Semester / Term Syllabus Planning

SYBCOM (SEM-III)

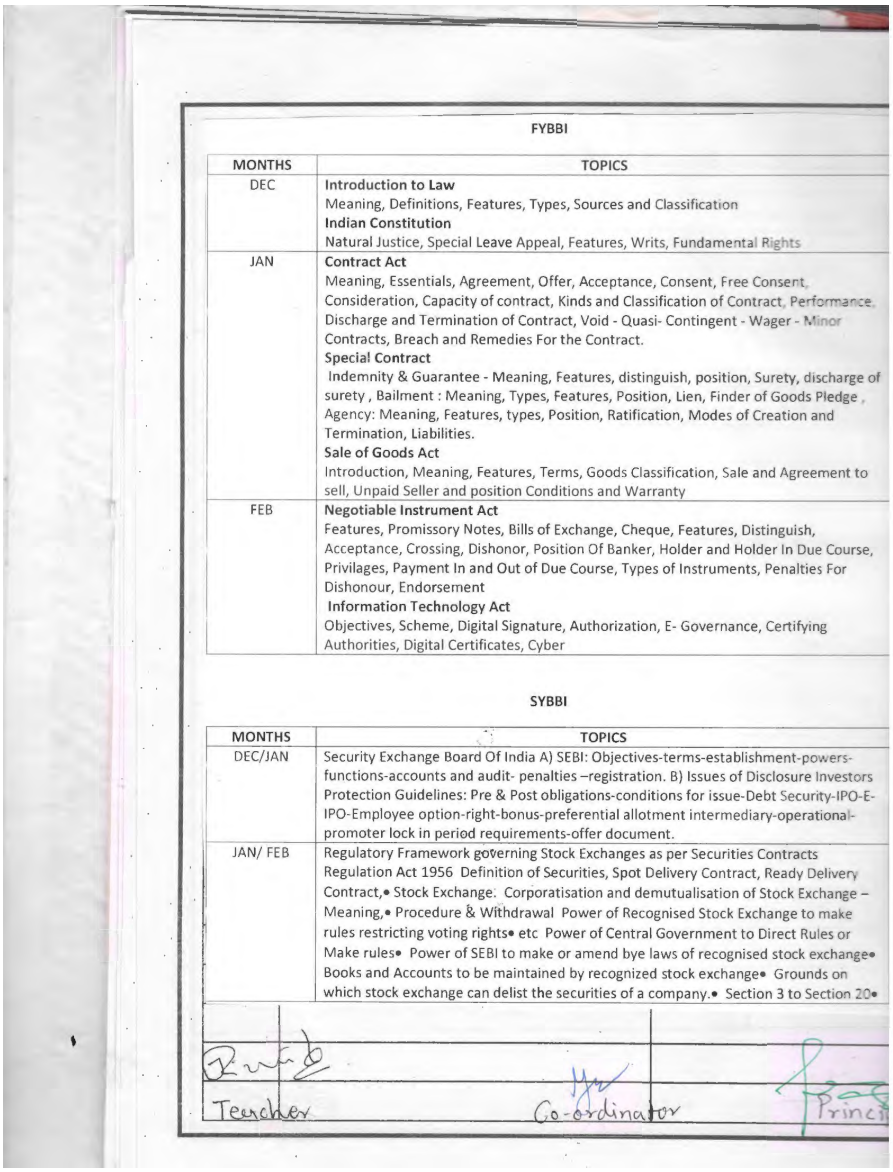
Business Law

	Modules / units
June	Contract Act : Meaning, Essentials, Agreement, Offer, Acceptance, Consent, Free Consent, Consideration, Capacity of contract, Kinds and Classification of Contract, Performance, Discharge and Termination of Contract, Void - Quasi- Contingent -Wager - Minor Contracts, Breach and Remedies For the Contract.
July	Special Contract: Indemnity & Guarantee - Meaning, Features, distinguish, position, Surety, discharge of surety • Bailment : Meaning, Types, Features, Position, Lien, Finder of Goods Pledge • Agency: Meaning, Features, types, Position, Ratification, Modes of Creation and Termination, Liabilities. Sale of Goods Act: Introduction, Meaning, Features, Terms, Goods Classification, Sale and Agreement to sell, Unpaid Seller and position Conditions and Warranty.
August	Negotiable Instrument Act : Features, Promissory Notes, Bills of Exchange, Cheque, Features, Distinguish, Acceptance, Crossing, Dishonor, Position Of Banker, Holder and Holder In Due Course,
September	Privilages, Payment In and Out of Due Course, Types of Instruments, Penalties For Dishonour. Endorsement

FYBMS (SEM-I)

Business Law

	Modules / units
July	Contract Act : Meaning, Essentials, Agreement, Offer, Acceptance, Consent, Free Consent, Consideration, Capacity of contract, Kinds and Classification of Contract, Performance, Discharge and Termination of Contract, Void - Quasi- Contingent -Wager - Minor Contracts, Breach and Remedies For the Contract.
August	Special Contract: Indemnity & Guarantee - Meaning, Features, distinguish, position, Surety, discharge of surety • Bailment : Meaning, Types, Features, Position, Lien, Finder of Goods Pledge • Agency: Meaning, Features, types, Position, Ratification, Modes of Creation and Termination, Liabilities. Sale of Goods Act: Introduction, Meaning, Features, Terms, Goods Classification, Sale and Agreement to sell, Unpaid Seller and position Conditions and Warranty.
	Negotiable Instrument Act : Features, Promissory Notes, Bills of Exchange, Crossing, Dishonor,



FYBBI

MONTHS	TOPICS
DEC	**Introduction to Law** Meaning, Definitions, Features, Types, Sources and Classification **Indian Constitution** Natural Justice, Special Leave Appeal, Features, Writs, Fundamental Rights
JAN	**Contract Act** Meaning, Essentials, Agreement, Offer, Acceptance, Consent, Free Consent, Consideration, Capacity of contract, Kinds and Classification of Contract, Performance, Discharge and Termination of Contract, Void - Quasi- Contingent - Wager - Minor Contracts, Breach and Remedies For the Contract. **Special Contract** Indemnity & Guarantee - Meaning, Features, distinguish, position, Surety, discharge of surety , Bailment : Meaning, Types, Features, Position, Lien, Finder of Goods Pledge , Agency: Meaning, Features, types, Position, Ratification, Modes of Creation and Termination, Liabilities. **Sale of Goods Act** Introduction, Meaning, Features, Terms, Goods Classification, Sale and Agreement to sell, Unpaid Seller and position Conditions and Warranty
FEB	**Negotiable Instrument Act** Features, Promissory Notes, Bills of Exchange, Cheque, Features, Distinguish, Acceptance, Crossing, Dishonor, Position Of Banker, Holder and Holder In Due Course, Privilages, Payment In and Out of Due Course, Types of Instruments, Penalties For Dishonour, Endorsement **Information Technology Act** Objectives, Scheme, Digital Signature, Authorization, E- Governance, Certifying Authorities, Digital Certificates, Cyber

SYBBI

MONTHS	TOPICS
DEC/JAN	Security Exchange Board Of India A) SEBI: Objectives-terms-establishment-powers-functions-accounts and audit- penalties –registration. B) Issues of Disclosure Investors Protection Guidelines: Pre & Post obligations-conditions for issue-Debt Security-IPO-E-IPO-Employee option-right-bonus-preferential allotment intermediary-operational-promoter lock in period requirements-offer document.
JAN/ FEB	Regulatory Framework governing Stock Exchanges as per Securities Contracts Regulation Act 1956 Definition of Securities, Spot Delivery Contract, Ready Delivery Contract,• Stock Exchange. Corporatisation and demutualisation of Stock Exchange – Meaning,• Procedure & Withdrawal Power of Recognised Stock Exchange to make rules restricting voting rights• etc Power of Central Government to Direct Rules or Make rules• Power of SEBI to make or amend bye laws of recognised stock exchange• Books and Accounts to be maintained by recognized stock exchange• Grounds on which stock exchange can delist the securities of a company.• Section 3 to Section 20•

Teacher Co-ordinator Princi

	Concept of Patents, General principles applicable to working of patented inventions, Term of Patent. Infringement of Patent Rights & Remedies. (Ss. 104-115). I IPR relating to Copyrights - Concept of Copyright (Ss. 14, 16, 54,) Concept of author and authorised acts, (S.2) Ownership of Copy right (S.17) Duration or term of Copy right. (S. 22-27), Original work and fair use, Rights of Copyright holder, Infringement of Copyrights & Remedies. (Ss. 51, 52) I IPR relating to Trademarks –Concept, Functions of Trade Mark, types, trademarks that cannot be registered, Registration of Trade Marks and rights of the proprietor of Trade Marks. Procedure for registration of Trade Marks., Infringement of Trademarks & Remedies.

FYBMS

MONTHS	TOPICS
DEC	**Laws Related to Compensation Management** Payment of Bonus Act, 1965 The Payment of Gratuity Act, 1972
JAN	**Laws Related to Health, Safety and Welfare** I The Factory Act, 1948 : (Provisions Related to Health, Safety and Welfare) I The Workmen's Compensation Act, 1923 : Provisions - - Introduction : The Doctrine of Assumed Risk, The Doctrine of Common Employment, The Doctrine of Contributory Negligence - Definitions - Employers Liability for Compensation (Sec. 3 to 13) - Rules as to Compensation (Sec. 4 to Sec. 9) (14A and 17) **Social Legislation** 1. Employees' State Insurance Act, 1948 : Definition and Employees Provident Fund 2. Miscellaneous Provision Act, 1952 : Schemes, Administration and Determination of Dues 3. Minimum Wages Act
FEB	**Laws Related to Industrial Relations and Industrial Disputes** I Industrial Disputes Act, 1947 : Definition, Authorities, Awards, Settlements, Strikes Lockouts, Lay Offs, Retrenchment and Closure I The Trade Union Act, 1926

Teacher

Co-ordinator

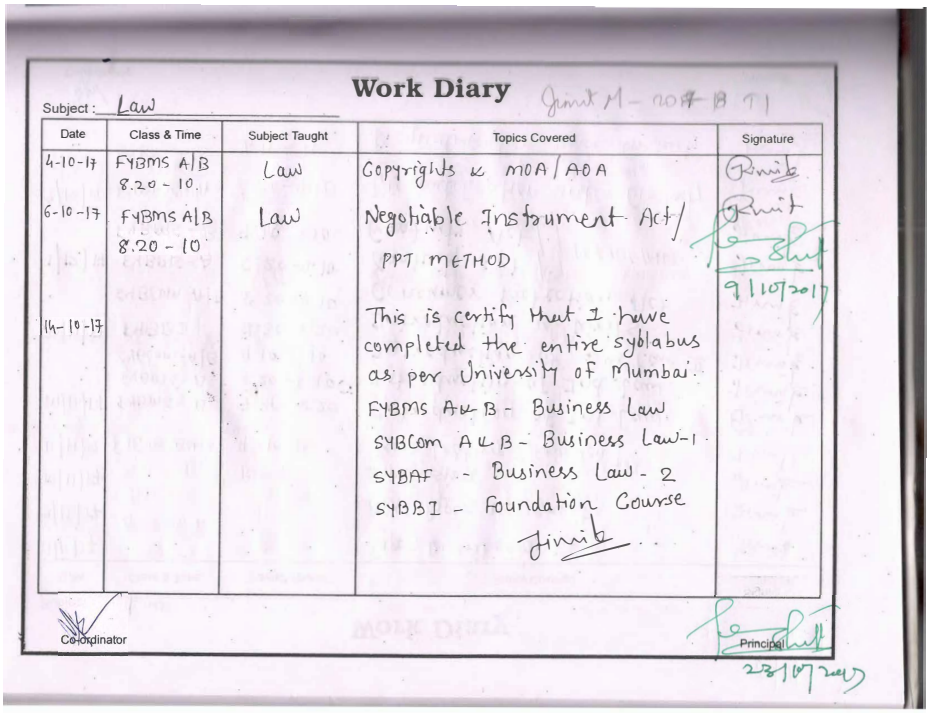
Principal

SYBCOM

MONTHS	TOPICS
DEC	**Consumer Protection Act, 1986** l Consumer Protection Act – Concept , Objects, Reasons for enacting the Consumer Protection Act, Definition of Consumer, Consumer Dispute, Complaint, Complainant, Defect, Deficiency, Consumer Dispute, Unfair Trade Practices, Goods and Services. l Consumer Protection Councils & Redressal Agencies – District, State & National.
JAN	**1. Indian Companies Act – 2013 Part - I** l Company – Concept, Features, Role of Promoters (S. 2(69) S. 92), Duties and liabilities of the Promoter Effects of Pre-Incorporation contracts, Consequences of non-registration, and Lifting of Corporate Veil. l Classification of Companies Distinction between Private Company and Public Company, Advantages and disadvantages of Private company and Public Company. – Common Procedure for Incorporation of Company. l Memorandum of Association (MOA) & Article of Association (AOA) – Concept, Clauses of MOA, AOA- Contents, Doctrine of constructive notice, Doctrine of Ultra Vires, Doctrine of Indoor Management. l Prospectus – Concept, Kinds, Contents, Private Placement **2. Indian Companies Act – 2013, Part-II** l Member of a Company –Concept, Who can become a member, Modes of acquiring membership, Cessation of membership, Right & Liabilities of Members. l Director – Qualifications & Disqualification, Classification, Director Identification Number (DIN), Legal Position of Directors. l Meetings – Types, Legal Provisions of Statutory Meeting, Annual General Meeting, Extra-Ordinary Meeting, Board Meeting. l Competition Act 2002 – Concept, Sallent Features, Objectives & Advantages. l Abuse of Dominant Position, Competition Commission of India, Anti-Competition Agreements.
FEB	**Competition Act 2002** Concept, Salient Features, Objectives & Advantages. l Abuse of Dominant Position, Competition Commission of India, Anti-Competition Agreements. **Indian Partnership Act – 1932** l Partnership – Concept, Essentials, True Test of Partnership, Partnership Deed, Types of Partnership, Rights and Duties of Partners, Distinguish between Partnership & Hindu Undivided Family (HUF). l Dissolution – Concept, Modes of Dissolution, Consequences of Dissolution. l Limited Liability Partnership (LLP) 2008 – Concept, Characteristics, Advantages & Disadvantages, Procedure for Incorporation. l Extent of L.L.P. - Conversion of LLP, Mutual rights & duties of partners, Winding up of LLP, Distinction between LLP and Partnership. Intellectual Property Right (IPR) – Concept, Nature, Introduction & background of IPR in India. l IPR relating to Patents – Concepts of Invention and discovery, Comparison (S2 (j)),

Principal

Coordinator



Work Diary

Subject : Law

Date	Class & Time	Subject Taught	Topics Covered	Signature
4-10-17	FYBMS A/B 8.20 - 10.	Law	Copyrights & MOA/AOA	Rinit
6-10-17	FYBMS A/B 8.20 - 10	Law	Negotiable Instrument Act/ PPT METHOD	Rinit 9/10/2017
14-10-17			This is certify that I have completed the entire syllabus as per University of Mumbai. FYBMS A & B - Business Law SYBCom A & B - Business Law-1 SYBAF - Business Law - 2 SYBBI - Foundation Course Jinit	

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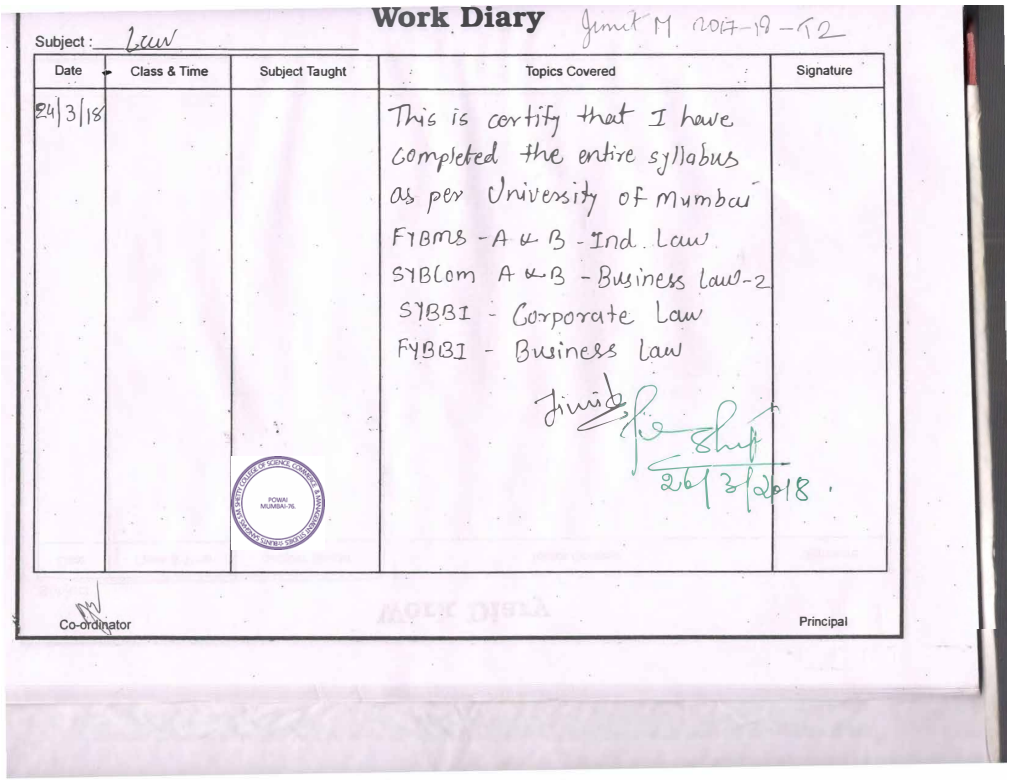
23/10/2017



Work Diary

Jimit M 2017-18-T2

Subject : Law

Date	Class & Time	Subject Taught	Topics Covered	Signature
24/3/18			This is certify that I have completed the entire syllabus as per University of Mumbai FYBMS - A & B - Ind. Law SYBCom A & B - Business Law-2 SYBBI - Corporate Law FYBBI - Business Law Jimit 26/3/2018.	

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BUNTS SANGHA'S
S.M. SHETTY COLLEGE OF SCIENCE, COMMERCE & MANAGEMENT STUDIES

ETHICS AND GOVERNANCE
TYBMS (SEM 5) AY 2017-18

MONTH	LESSON PLAN
JUNE	Concept of Ethics, Evolution of Ethics, Nature of Ethics- Personal, Professional, Managerial, Importance of Ethics, Objectives, Scope, Types – Transactional, Participatory and Recognition b) Business Ethics: Meaning, Objectives, Purpose and Scope of Business Ethics Towards Society and Stakeholders, Role of Government in Ensuring Business Ethics, Principles of Business Ethics, 3 Cs of Business Ethics – Compliance, Contribution and Consequences • Myths about Business Ethics, Ethical Performance in Businesses in India.
JULY	Ethics in Marketing: Ethical issues in Marketing Mix, Unethical Marketing Practices in India, Ethical Dilemmas in Marketing, Ethics in Advertising and Types of Unethical Advertisements Ethics In Finance: Scope of Ethics in Financial Services, Ethics of a Financial Manager – Legal Issues, Balancing Act and Whistle Blower, Ethics in Taxation, Corporate Crime - White Collar Crime and Organised Crime, Major Corporate Scams in India, Role of SEBI in Ensuring Corporate Governance, Cadbury Committee Report, 1992
AUGUST	Ethics in Human Resource Management: Importance of Workplace Ethics, Guidelines to Promote Workplace Ethics, Importance of Employee Code of Conduct, Ethical Leadership Corporate Governance: Concept, History of Corporate Governance in India, Need for Corporate Governance, Significance of Ethics in Corporate Governance, Principles of Corporate Governance, Benefits of Good Governance, Issues in Corporate Governance Theories- Agency Theory, Shareholder Theory, Stakeholder Theory and Stewardship Theory Corporate Governance in India, Emerging Trends in Corporate Governance, Models of Corporate Governance, Insider Trading
SEPTEMBER	Corporate Social Responsibility (CSR): Meaning of CSR, Evolution of CSR, Types of Social Responsibility, Aspects of CSR- Responsibility, Accountability, Sustainability and Social Contract, Need for CSR • CSR Principles and Strategies, Issues in CSR, Social Accounting Tata Group's CSR Rating Framework, Sachar Committee Report on CSR, Ethical Issues in International Business Practices, Recent Guidelines in CSR, Society's Changing Expectations of Business With Respect to Globalisation, Future of CSR

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STRATEGIC MANAGEMENT
SYBMS (SEM 3) AY 2017-18

MONTH	LESSON PLAN
JUNE	Business Policy-Meaning, Nature, Importance. Strategy-Meaning, Definition. Strategic Management-Meaning, Definition, Importance, Strategic management. Process & Levels of Strategy and Concept and importance of Strategic Business Units (SBU's). Strategic Intent - Mission, Vision, Goals, Objective, Plans. Strategy Formulation- Environment Analysis and Scanning (SWOT)
JULY	Corporate Level Strategy (Stability, Growth, Retrenchment, Integration and Internationalization). Business Level Strategy(Cost Leadership, Differentiation, Focus) Functional Level Strategy(R & D, HR, Finance, Marketing ,Production)
AUGUST	Strategic Implementation Models of Strategy making. Strategic Analysis & Choices & Implementation : BCG Matrix, GE 9 Cell, Porter 5 Forces, 7S Frame Work Implementation: Meaning, Steps and implementation at Project, Process, Structural, Behavio l level.
SEPTEMBER	Strategic Evaluatio Meaning, Steps of Evaluation & Techniques of Control Synergy : Concept tion of Synergy. Synergy as a Component of Strategy & its Rele Change Management – Elementary Concept

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FOUNDATION OF HUMAN SKILLS
(FYBMS – SEM 1) AY 2017-18

MONTH	LESSON PLAN
JULY	**Introduction to Group Behaviour: Group Dynamics:** Nature, types, group behaviour model (roles, norms, status, process, structures), **Team effectiveness:** nature, types of teams, ways of forming an effective team. Setting goals. • **Organizational processes and system: Power and politics:** nature, bases of power, politics nature, types, causes of organizational politics, political games.
AUGUST	**Organizational conflicts and resolution**: Conflict features, types, causes leading to organizational conflicts, levels of conflicts, ways to resolve conflicts through five conflicts resolution strategies with outcomes. **Organizational Culture:** Characteristics of organizational culture, Types, functions and barriers of organizational culture, Ways of creating and maintaining effective organization culture
SEPTEMBER	**Motivation at workplace**: Concept of motivation, Theories of motivation: A.Maslow Need Heirachy, F.Hertzberg Dual Factor, Mc.Gregor theory X and theory Y. **Ways of motivating through carrot and stick at workplace** **Organisational change and creativity:** Concepts of organisational change, Factors leading/influencing organisational change, Kurt Lewins model of organisational change and development, Creativity and qualities of a creative person, Ways of enhancing creativity for effective decision making, Creative problem solving. **Organisational Development and work stress:** Need for organisational development, OD Techniques, Stress, types of stress, Causes and consequences of job stress, Ways for coping up with job stress

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INDIAN ETHOS IN MANAGEMENT
SYBMS (SEM 6) AY 2017-18

MONTH	LESSON PLAN
NOVEMBER	Introduction to Ethos, Indian Ethos: Meaning History, relevance (PPT)
DECEMBER	Lessons from Mahabharat, Bible, Quran, Vedas, Arthashastra, Role of Indian Ethos in Management Practices, Ethics Vs. Ethos, Indian Vs. Western management philosophy. WORK ETHOS: Meaning, Levels, dimensions, steps, Factors responsible for Poor work ethos (PPT)
JANUARY	VALUES: Meaning, features, values for managers, Impact of values on stakeholders, Transcultural values, Spiritual and Secular Values approach STRESS MANAGEMENT: Meaning, types, causes, consequences. STRESS MANAGEMENT TECHNIQUES: Models, Meditation, techniques f meditation. (PPT) Presentations from students covering various religions, practices, meditation etc
FEBRUARY	LEADERSHIP: Meaning, contemporary approaches, Joint Hindu Family , Karta LEARNING: Gurukul system & Modern system of learning: Features, dvantages, disadvantages. (PPT) KARMA: Meaning, relevance for managers, Nishkama Karma, Law of karma: Great Laws of Karma Corporate Karma (PPT) Self Management : Personal Growth, Indian Education System, Personality Development(PPT)
MARCH	Indian Ethos and Personality Development (PPT)

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STRATEGIC MANAGEMENT
TYBBI (SEM 6) AY 2017-18

MONTH	LESSON PLAN
NOVEMBER	Introduction to Strategy, Levels of Strategy, Introduction to Strategic Management (PPT)
DECEMBER	Process of SM, Strategic Intent – Vision, Mission statement, Goals and Objectives, Business Environment, External Environment: Political, Economical, Social, Technological, Internal Environment. SWOT Analysis (Interactive Discussion) – PPT, Introduction to Corporate Level Strategies
JANUARY	Corp. Level Strategies – Concentration, Integration, Mergers, Acquisitions, Strategic Alliances, Diversification, Business Level and Functional Strategies (PPT). Tools for strategic choice – BCG Matrix (Assignment based on Prominent Companies), GE 9 Cell Grid, McKinsey 7S model, PLC. (PPT)
FEBRUARY	Organisation Structure, Chandlers Statement, Structure Vs. Strategies (Discussion on structures of real companies: AMUL etc.), Resource Mobilisation – Men, Money, Market, Material etc. Leadership and Motivation (Discussion on Prominent Bankers: Chanda Kochar, Parekh etc.), Role of creativity and innovation, Evaluation and Control: Introduction, Process, benchmarking, Gap Analysis (PPT)
MARCH	ROI & Budgeting (PPT)

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BUSINESS RESEARCH METHODS
(SYBMS – SEM III) AY 2017-18

MONTH	LESSON PLAN
NOVEMBER	Meaning and objectives of research (PPT)
DECEMBER	• Characteristics of Good Research, Types of research, Concepts in Research: Variables • Stages in research process. • Hypothesis-Meaning, Nature, Significance, Types of Hypothesis, Sources. (PPT) • Practicing Null and Alternative hypothesis – CASE STUDY
JANUARY	• Research design– Meaning, Definition, Need and Importance, Steps in research design and Types-Descriptive, Exploratory and causal. • Sampling– meaning Of sample and sampling, o methods of sampling- i)Non Probability Sampling– Convenient , Judgment, Quota, Snow ball ii) Probability– Simple Random, Stratified, Cluster, Multi Stage. • Types of data and sources-Primary and Secondary data sources • Methods of collection of primary data • Processing of data: – i) Editing- field and office editing, ii)coding– meaning and essentials, iii) tabulation – note (PPT)
FEBRUARY	- Analysis of data-Meaning, Purpose, types. - Interpretation of data-Essentials, importance and Significance of processing - Multivariat cept only - Testing of h ncept and problems– i)chi square test, ii) Zandt-test (nall sample) • Report writ g , importance, functions of reports, essential of a good report, content of report , steps in writing a report, types of reports, Footnotes and Bibliography (PPT) SUBMISSION OF RESEARCH BASED PROJECT REPORT
MARCH	• Ethics and research • Objectivity, Confidentiality and anonymity in Research, Plagiarism (PPT)

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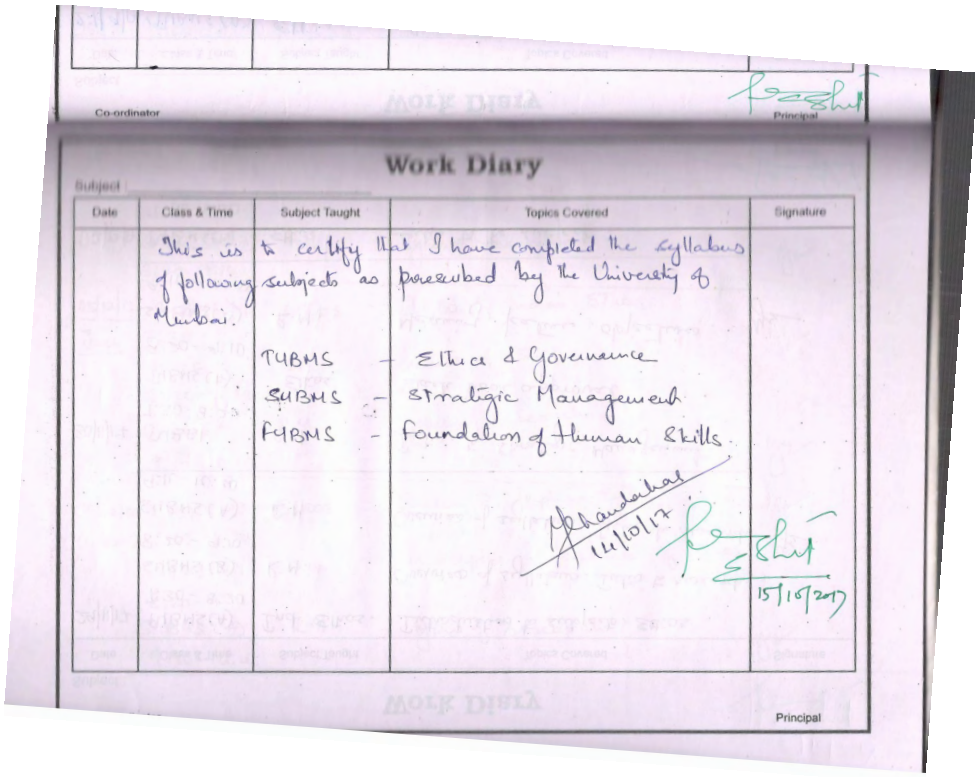

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Work Diary

Subject

Date	Class & Time	Subject Taught	Topics Covered	Signature
	This is to certify that I have completed the syllabus of following subjects as prescribed by the University of Mumbai.			
		TYBMS	- Ethics & Governance	
		SYBMS	- Strategic Management	
		FYBMS	- Foundation of Human Skills.	

14/10/17

15/10/2017

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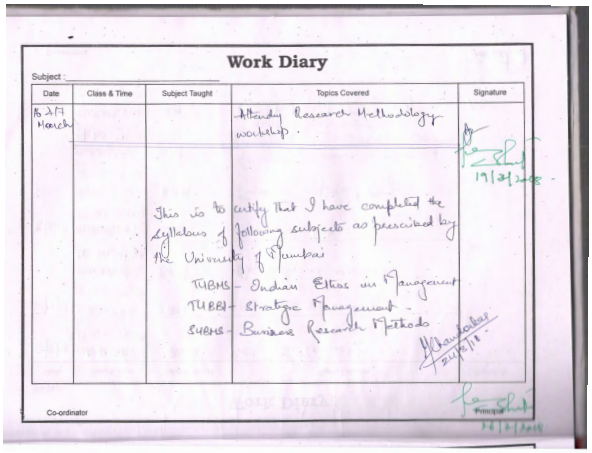

Work Diary

Subject :

Date	Class & Time	Subject Taught	Topics Covered	Signature
16 to 17 March			Attended Research Methodology workshop.	

This is to certify that I have completed the syllabus of following subjects as prescribed by the University of Mumbai

TUBMS - Indian Ethos in Management
TUBRM - Strategic Management
SUBMS - Business Research Methods

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Teaching Learning Plan – Odd Semester – 2017-18

SECOND YEAR BACHELOR OF MANAGEMENT STUDIES

CONSUMER BEHAVIOUR

June	**1. Introduction To Consumer Behaviour:** • Meaning of Consumer Behaviour, Features and Importance • Types of Consumer (Institutional & Retail), Diversity of consumers and their behaviour- Types Of Consumer Behaviour • Profiling the consumer and understanding their needs • Consumer Involvement • Application of Consumer Behaviour knowledge in Marketing • Consumer Decision Making Process and Determinants of Buyer Behaviour, factors affecting each stage, and Need recognition.
July	**2. Individual- Determinants of Consumer Behaviour:** • Consumer Needs &Motivation (Theories - Maslow, Mc Cleland). • Personality – Concept, Nature of personality, Freudian, non - Freudian and Trait theories, Personality Traits and it's Marketing significance, Product personality and brand personification. • Self-Concept – Concept • Consumer Perception • Learning - Theory, Nature of Consumer Attitudes, Consumer Attitude • Formation &Change. • Attitude - Concept of attitude
August	**3. Environmental Determinants of Consumer Behaviour:** • Family Influences on Buyer Behaviour, • Roles of different members, needs perceived and evaluation rules. • Factors affecting the need of the family, family life cycle stage and size. • Social Class and Influences. • Group Dynamics & Consumer Reference Groups, Social Class & Consumer Behaviour - Reference Groups, Opinion Leaders and Social Influences In-group versus out-group influences, role of opinion leaders in diffusion of innovation and in purchase process. • Cultural Influences on Consumer Behaviour Understanding cultural and sub-cultural influences on individual, norms and their role, customs, traditions and value system.

September	**4. Consumer decision making models and NewTrends:** • Consumer Decision making models: Howard Sheth Model, Engel Blackwell, Miniard Model, Nicosia Models of Consumer Decision Making • Diffusion of innovations Process of Diffusion and Adoption, Innovation, Decision process, Innovator profiles • E-Buying behaviour The E-buyer vis-a vis the Brick and Mortar buyer, Influences on E-buying

Teaching Learning Plan – Odd Semester – 2017-18

SECOND YEAR BACHELOR OF MANAGEMENT STUDIES

ENVIRONMENTAL MANAGEMENT

June	**1. Environmental Concepts:** • **Environment:** Definition and composition, Lithosphere, Atmosphere, Hydrosphere, Biosphere • **Biogeochemical cycles** - Concept and water cycle • Ecosystem & Ecology; Food chain, food web & Energy flow pyramid • **Resources:** Meaning, classification(Renewable & non-renewable), types & Exploitation of Natural resources in sustainable manner
July	**2. Environment degradation:** • **Degradation**-Meaning and causes, degradation of land, forest and agricultural land and its remedies • **Pollution** – meaning, types, causes and remedies (land, air, water and others) • **Global warming**: meaning, causes and effects. • **Disaster Management**: meaning, disaster management cycle. **Waste Management**: Definition and types -solid waste management anthropogenic waste, e-waste & biomedical waste (consumerism as a cause of waste)
August	**3. Sustainability and role of business:** • Sustainability: Definition, importance and Environment Conservation. • Environmental clearance for establishing and operating Industries in India. • EIA, Environmental auditing, ISO 14001 • Salient features of Water Act, Air Act and Wildlife Protection Act. Carbon bank & Kyoto protocol
September	**4. Innovations in business- an environmental perspective:** • **Non-Conventional energy sources**- Wind, Bio-fuel, Solar, Tidal and Nuclear Energy. Innovative Business Models: Eco-tourism, Green marketing, Organic farming, Eco-friendly packaging, Waste

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Teaching Learning Plan – Odd Semester – 2017-18

SECOND YEAR BACHELOR OF COMMERCE

ADVERTISING

June	**1. Introduction to Advertising:** • Integrated Marketing Communication(IMC):Concept, Features, elements, Role of advertising in IMC • Advertising: Concept, Features, Evolution of Advertising, Active participants, Benefits of advertising to business firms and consumers • Classification of Advertising: Geographic, Media, Target audience and functions
July	**2. Advertising Agency:** • Ad Agency: Features, Structure and services offered, types of advertising agencies, agency selection criteria • Agency and Client: Maintaining Agency-Client relationship, reasons and ways of avoiding client turnover, Creative pitch, agency compensation • Career in Advertising: Skill required for a career in an advertising, various career options, freelancing career options-graphics, animation, modelling, dubbing
August	**3. Economic & Social aspects of advertising:** • Economic aspects: Effect of advertising on consumer demand,monopoly and competition, price • Social aspects: Ethical and social issues in advertising, positive and negative influence of advertising on Indian values and culture • Pro Bono/Social Advertising: Pro Bono advertising, Social advertising by Indian govt. through Directorate of Advertising and Visual Publicity(DAVP), self-Regulatory-Role of ASCI (Advertising Standard Council of India)
September	**4. Brand building & Special Purpose Advertising:** • Brand Building: The communication process, AIDA model, roles of advertising in developing brand image and brand equity and managing brand crises • Special Purpose Advertising: Rural advertising, political advertising, advocating advertising, corporate image advertising, green advertising- Features of all of the above • Trends in Advertising:Media, Ad Spends, Ad Agencies, Execution of advertisements

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Teaching Learning Plan – Odd Semester – 2017-18

THIRD YEAR BACHELOR OF MANAGEMENT STUDIES

SERVICE MARKETING

June	**1. Introduction of Services Marketing:** • Services Marketing Concept, Distinctive Characteristics of Services, Services Marketing Triangle, Purchase Process for Services, Marketing Challenges of Services • Role of Services in Modern Economy, Services Marketing Environment • Goods v/s Services Marketing, Goods Services Continuum • Consumer Behaviour, Positioning a Service in the Market Place • Variations in Customer Involvement, Impact of Service Recovery Efforts on Consumer Loyalty • Type of Contact: High Contact Services and Low Contact Services • Sensitivity to Customers' Reluctance to Change
July	**2. Key Elements of Services Marketing Mix:** •The Service Product, Pricing Mix, Promotion & Communication Mix, Place/Distribution of Service, People, Physical Evidence, Process-Service MappingFlowcharting • Branding of Services – Problems and Solutions • Options for Service Delivery
August	**3. Managing Quality Aspects of Services Marketing:** • Improving Service Quality and Productivity • Service Quality – GAP Model, Benchmarking, Measuring Service Quality -Zone of Tolerance and Improving Service Quality • The SERVQUAL Model • Defining Productivity – Improving Productivity • Demand and Capacity Alignment
September	**4. Marketing of Services:** • International and Global Strategies in Services Marketing: Services in the Global Economy- Moving from Domestic to Transnational Marketing • Factors Favouring Transnational Strategy • Elements of Transnational Strategy • Recent Trends in Marketing Of Services in: Tourism, Hospitality, Healthcare, Banking, Insurance, Education, IT and Entertainment Industry • Ethics in Services Marketing: Meaning, Importance, Unethical Practices in Service Sector

POWAI MUMBAI-76

Coordinator

31/10/2017

Work Diary

Pooja Shetty 2017-18

Subject :

Date	Class & Time	Subject Taught	Topics Covered	Signature
			I hereby declare that I have completed the allotted syllabus of following subjects. 2017-18 Sem III SYBMS — FC III Sem III SYBMS — Consumer Beh. Sem III SYBCOM — Advertising Sem V TYBMS — Service Mktg Shetty 16/11/17	

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22/10/2017

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TEACHING-LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

SEMESTER V

SUBJECT: E-COMMERCE AND DIGITAL MARKETING

COURSE: BMS CLASS: THIRD YEAR

MONTH	TEACHING-LEARNING PLAN
June	• Ecommerce- Meaning, Features of E-commerce, Categories of E-commerce, Advantages &Limitations of E-Commerce, Traditional Commerce &E-Commerce • Ecommerce Environmental Factors • Factors Responsible for Growth of E-Commerce, Issues in Implementing E-Commerce, Myths of E-Commerce • Impact of E-Commerce on Business, Ecommerce in India and trends • Meaning, benefits and trends in M-Commerce – Discussion
July	• E-Business: Meaning, Launching an E-Business, Different phases of Launching an E-Business • Important Concepts in E-Business: Data Warehouse, Customer Relationship Management , Supply Chain Management, Enterprise Resource Planning • Bricks and Clicks business models in E-Business • Electronic Data Interchange (EDI) in E-Business • Website : Design and Development of Website VIDEOS
August	• Issues Relating to Privacy and Security in E-Business • Electronic Payment Systems • Payment Gateway – Videos • Types of Transaction Security • E-Commerce Laws in India, IT Act 2000 – Class discussion
September	• Digital Marketing • Digital Marketing on various Social Media platforms • Online Advertisement, Online Marketing Research, Online PR • Web Analytics, Promoting Web Traffic – Videos *Case studies as applicable

Teaching Methodology used is PPT

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TEACHING-LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

SEMESTER III

SUBJECT: BUSINESS PLANNING AND ENTREPRENEURIAL MANAGEMENT

COURSE: BMS CLASS: SECOND YEAR

MONTH	TEACHING-LEARNING PLAN
~~DECEMBER~~ June	**Foundations of Entrepreneurship Development:** • Concept and Need of Entrepreneurship Development • Importance and significance of growth of entrepreneurial activities **Theories of Entrepreneurship** **External Influences on Entrepreneurship Development:** • Socio-Cultural, Political, Economical, Personal. Class discussion
~~JANUARY~~ July	**Types & Classification Of Entrepreneurs** • Intrapreneur – Concept and Development of Intrapreneurship • Women Entrepreneur, Social entrepreneurship • Entrepreneurship in India, Entrepreneurial development Program • Options available to Entrepreneur Class discussion
~~FEBRUARY~~ August	**Entrepreneur Project Development & Business Plan** • Innovation, Invention, Creativity • Idea generation – Sources - Development of product / idea, • Environmental scanning and SWOT analysis Class discussion • Entrepreneurial Venture, Business Planning Process, • Business Plan, Process, Feasibility Analysis, Critical Risk Analysis
~~MARCH~~ September	**Venture Development** • Steps involved in starting of Venture • Institutional support to an Entrepreneur • Venture funding, requirements of Capital (Fixed and working) • Sources of finance, problem of Venture set-up and prospects • Marketing: Methods, Channel of Marketing, Marketing Institutionsand Assistance, E-entrepreneur Class discussion *Case studies as applicable

Teaching Methodology ⇒ PPT.

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TEACHING-LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

SEMESTER I

SUBJECT: FOUNDATION OF HUMAN SKILLS

COURSE: BMS CLASS: FIRST YEAR

MONTH	TEACHING-LEARNING PLAN (Unit I, II and III)
July	• **IndividualBehavior:**Concept of a man, individual differences, factors affecting individual differences, Influence of environment • **Personality and attitude:** Determinants of personality, Personality traits theory, Big five model, locus of control, Machiavellianism, introversion-extroversion achievement orientation , self – esteem, risk taking, self-monitoring, Personality Types, Concept of JOHARI WINDOWS, Attitude-Nature, Components, Functions, Reading emotions.
August	• **Thinking, learning and perceptions:** Thinking skills, thinking styles and thinking hat, Managerial skills and development, Learning characteristics, Theories of learning, Intelligence, Perception features and factors influencing individual perception, perceptual error. • **Introduction to Group Behavior** Activity **Group Dynamics:** Nature, types, group behavior model **Team effectiveness:** nature, types of teams, ways of forming an effective team.Setting goals.
September	• **Organizational processes and system.** **Power and politics:** nature, bases of power, politics nature, types, causes of organizational politics, political games. **Organizational conflicts and resolution**: Conflict features, types, causes,levels, conflict resolution strategies. - Class discussion *Case studies as applicable.

Teaching Methodology is PPT.

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TEACHING-LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

SEMESTER V

SUBJECT:MARKETING & HUMAN RESOURCE MANAGEMENT

COURSE: B.COM CLASS: THIRD YEAR

MONTH	TEACHING-LEARNING PLAN
June	• Meaning and features and functions of Marketing • Strategic Marketing Management • Customer Relationship Management • Social Marketing • Digital Marketing Videos • Event Marketing Class discussion • Challenges of Marketing manager
July	• Marketing Information System • Market Research • Consumer Behavior, buying process Class discussion • Market Segmentation, Niche marketing
August	• Marketing mix • Product designs • Branding- components • Pricing- factors, objectives, strategies Pictures - PPT
September	• Physical distribution-channels Class discussion • Trends in distribution • Promotion decision- elements of promotion • Integrated Marketing Communication- components *Case studies as applicable

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TEACHING-LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

SEMESTER VI

SUBJECT: RETAIL MANAGEMENT

COURSE: BMS CLASS: THIRD YEAR

MONTH	TEACHING-LEARNING PLAN
DECEMBER	**Retail Management** • Introduction and Meaning, Significance, Factors Influencing Retail Management, Scope of Retail Management **Retail Formats** • Multichannel Retailing: Meaning and Types
JANUARY	**Emerging Trends in Retailing** • Impact of Globalization on Retailing • Applications of I.T. in Retail: EDI, Bar Coding, RFID Tags, Electronic Surveillance, Electronic Shelf Labels (VIDEOS) FDI in Retailing, Franchising, Green Retailing, Airport Retailing Retail Consumer/Shopper CRM in Retail Retail Strategy Store Location Selection HRM in Retail
FEBRUARY	• Merchandise Management Buying Function Concept of Lifestyle Merchandising Private Label (PICTURES & GROUP DISCUSSION) Pricing Strategies (PICTURES)
MARCH	• **Retail Store Operations** Meaning, Responsibilities of Store Manager, The 5 S's of Retail Operations (Systems, Standards, Stock, Space, Staff) (PICTURES) **Store Design and Layout- types** (PICTURES) • Signage and Graphics, Feature Areas *Case studies as applicable

The teaching methodology used is ~~through~~ Power Point Presentation and Pictures.

TEACHER'S SIGNATURE COORDINATOR'S SIGNATURE PRINCIPAL'S SIGNATURE

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TEACHING-LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

SEMESTER IV

SUBJECT: ETHICS AND CORPORATE GOVERNANCE

COURSE: BMS CLASS: SECOND YEAR

MONTH	TEACHING-LEARNING PLAN
DECEMBER	• Ethics: Concept of Ethics, Evolution of Ethics, Nature of Ethics- Personal, Professional, Managerial Importance of Ethics, Objectives, Scope, Types – Transactional, Participatory and Recognition • Business Ethics: Meaning, Objectives, Purpose and Scope of Business Ethics Towards Society and Stakeholders, Role of Government in Ensuring Business Ethics
JANUARY	• Principles of Business Ethics, 3 Cs of Business Ethics • Ethics in Marketing (CLASS DISCUSSION) • Ethics In Finance-Major Corporate Scams in India, Role of SEBI in Ensuring Corporate Governance, Cadbury Committee Report, 1992 • Ethics in Human Resource Management (VIDEOS) • Concept, History of Corporate Governance in India, Need for Corporate Governance
FEBRUARY	• Significance of Ethics in Corporate Governance, Principles of Corporate Governance, Benefits of Good Governance, Issues in Corporate Governance • Theories- Agency Theory, Shareholder Theory, Stakeholder Theory and Stewardship Theory • Corporate Governance in India, Emerging Trends in Corporate Governance, Models of Corporate Governance, Insider Trading • Meaning of CSR, Evolution of CSR, Types of Social Responsibility, Need for CSR , CSR Principles and Strategies, Issues in CSR • Tata Group's CSR Rating Framework • Sachar Committee Report on CSR (CLASS DISCUSSION)
MARCH	• Ethical Issues in International Business Practices • Recent Guidelines in CSR • Society's Changing Expectations of Business With Respect to Globalization, Future of CSR (CLASS DISCUSSION) *Case studies as applicable

The teaching methodology used is ~~through~~ Power Point Presentation.

S.M. SHETTY COLLEGE OF SCIENCE, COMMERCE & MANAGEMENT STUDIES POWAI MUMBAI-76.

TEACHER'S SIGNATURE COORDINATOR'S SIGNATURE PRINCIPAL'S SIGNATURE

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SEMESTER II

SUBJECT: PRINCIPLES OF MANGEMENT

COURSE: BMS CLASS: FIRST YEAR

MONTH	TEACHING-LEARNING PLAN (Unit I and II)
DECEMBER	• Management: Concept, Significance, Role & Skills, • Levels of Management
JANUARY	• Management as Arts, Science, Profession (CLASS DISCUSSION) • Concepts of PODSCORB, Managerial Grid • Evolution of Management thoughts • Contribution of F.W Taylor, Henri Fayol and Contingency Approach
FEBRUARY	• Planning: Meaning, Importance, Elements, Process, Limitations (CLASS DISCUSSION) • Management by Objectives
MARCH	• Decision Making: Meaning, Importance, Process • Techniques of Decision Making *Case studies as applicable

The teaching methodology used is ~~through~~ Power Point Presentation

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SEMESTER VI

SUBJECT: HUMAN RESOURCE MANAGEMENT

COURSE: B.COM. CLASS: THIRD YEAR

MONTH	TEACHING-LEARNING PLAN
DECEMBER	• Concept of HRM- its Nature, importance and Function – Role of HR Managers in the changing Business Environment • Human Resource Planning: Importance and Process
JANUARY	• HRP-Job Analysis-Meaning and Uses (NEWS PAPER CUT OUTS) • Recruitment and its sources, Selection Procedure • Employment Tests and interviews-their roles and types –Importance of Placement and Induction • Concept and Scope of HRD- Training and Development-Importance, Types and Methods (CLASS DISCUSSION) • Performance Appraisal-benefits, limitations, and techniques of appraisal. 360 Degree Appraisal • Employee Retention-Compensation and Incentives
FEBRUARY	• Nature and importance of human relations-Leadership-Traits and Styles. • Motivation-Factors of motivation-Theories of motivations-Maslow's Theory, Hertzberg's Theory and McGregor's X & Y Theory. Employee Morale-Nature and Importance • Grievances handling and procedure. (CLASS DISCUSSION)
MARCH	• IV Current Issue in HRM: Lectures 10 • Human Resource Accounting-Concept, advantage and limitations. Human resource Audit-Objective and scope • Group Dynamics and team Building, Emotional Quotient and Mentoring, Career Planning and Development Empowerment and Participation (CLASS DISCUSSION) • Emerging challenges in HRM –managing workforce diversity-Managing Downsizing, Outsourcing • Safety and security management-Importance (CLASS DISCUSSION) *Case studies as applicable

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TEACHER'S SIGNATURE COORDINATOR'S SIGNATURE PRINCIPAL'S SIGNATURE

Work Diary

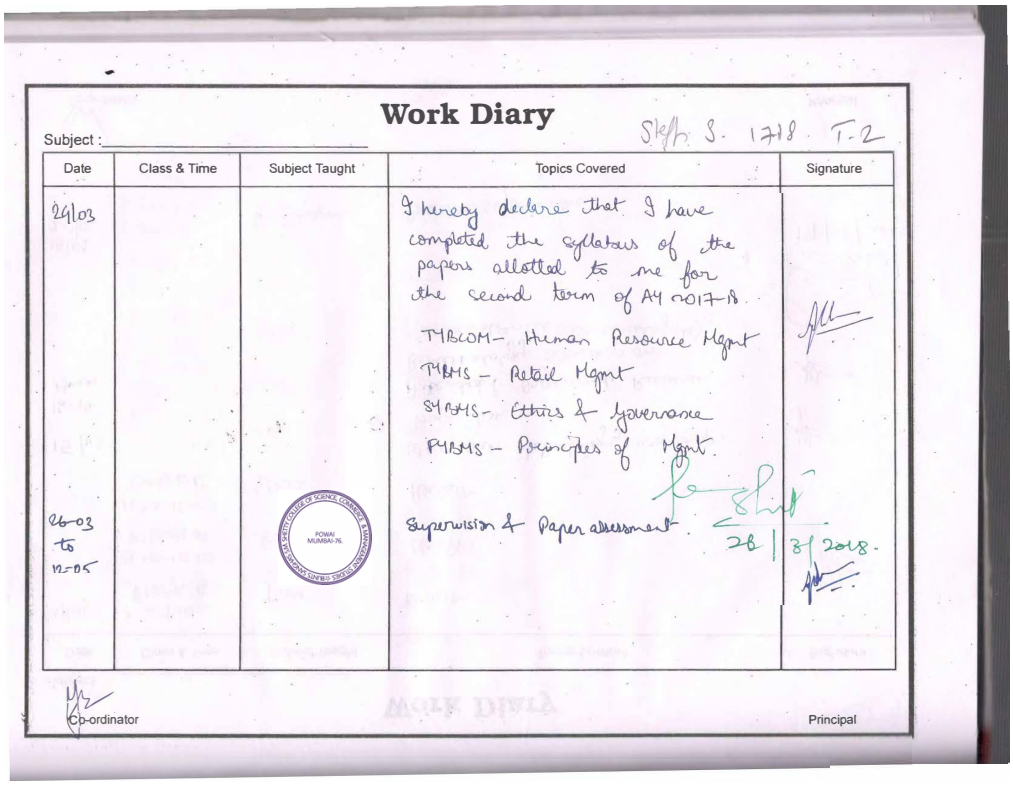
Subject : ____________ Steff. S. 1718 - T-1

Date	Class & Time	Subject Taught	Topics Covered	Signature
10/11 to 12/11	10.00-12.30		SY supervision & TY supervision, SY supervision & Assessment.	[signature]
28/11	I hereby declare that I have completed the syllabus of the subject allotted to me FYBMS-FHS, SYBMS-BDEM, TYBMS-EDM, TYBCOM-Marketing.			
29/11	7.30-8.20. SYBMS A	Ethics	Introduction to the subject.	[signature]
	8.20-9.10 FYBMS 'A'	PDM	Introduction to the subject	
	9.10-10.00 TYBMS 'A'	Retail Mgmt	Introduction to the subject	
30/11	7.30-8.20 FYBMS 'A'	PDM	Introduction to Management	[signature]
	8.20-9.10 SYBMS 'A'	Ethics	Ethics & Business Ethics	
	9.10-10.00 TYBMS 'A'	Retail Mgmt.	Retailing concepts	
2/12	7.30-8.20 TYBMS 'A'	Retail Mgmt	Project discussion Introduction Meaning & Significance	[signature]
	9.10-10.00 SYBMS A&B	Ethics	Introduction to the Subject.	

Co-ordinator [signature]

POWAI MUMBAI-76.

Principal [signature]



Work Diary

Subject :_____ Sk/h. S. 1718. T-2

Date	Class & Time	Subject Taught	Topics Covered	Signature
24/03			I hereby declare that I have completed the syllabus of the papers allotted to me for the second term of AY 2017-18. TYBCOM- Human Resource Mgmt TYBMS - Retail Mgmt SYBMS- Ethics & governance FYBMS - Principles of Mgmt.	
26-03 to 12-05			Supervision & Paper assessment.	28/3/2018.

Co-ordinator

Principal

Semester / Term Syllabus Planning

S.Y.B.Com - SEMESTER III
ACCOUNTANCY AND FINANCIAL MANAGEMENT – III

Month	Topics
June	**Partnership final accounts based on admission or retirement/death of a partner during the year.** a)Simple final accounts questions to demonstrate the effect on final. Accounts when a partner is admitted during the year or when partner Retires / dies during the year. b)Allocation of gross profit prior to and after admission / retirement / death when stock on the date of admission / retirement is not given and apportionment of other expenses based on time/sales/other basis. c)Ascertainment Of gross profit prior to and after admission / retirement / death when stock on the date of admission / retirement is given and apportionment of other expenses based on time / Sales / Other given basis. Excluding : Admission /retirement / death in the same year.
July	**Piecemeal distribution of cash** a)Excess Capital Method only.(b)Asset taken over by a partner. (c)Treatment of past profits or past losses in the Balance sheet. (d)Contingent liabilities / Realisation expenses / amount kept aside for expenses. (e) Adjustment of actual. (f)Treatment of secured liabilities. (g)Treatment of preferential liabilities like Govt. dues / labour dues etc. Excluding: h)Insolvency of Partner and Maximum Loss Method.
August	**Amalgamation of firms** a)Realisation method only. (b)Calculation of Purchase Consideration. (c)Journal/Ledger accounts of old firms. (d)Preparation of new Balance Sheet of New firm. (e)Adjustment of Goodwill in the New firm. f)Realignment of Capitals in the new firm by current accounts/cash or a combination thereof Excluding Common transactions between the amalgamating firms.
September	**Conversion/ Sale of a partnership firm into a Ltd. Company** a) Realisation method only. (b) Calculation of Purchase Consideration. Journal/Ledger accounts of old Firms. Preparation of new Balance Sheet of New Company.

T.Y.B.M.S. - SEMESTER V
COMMODITY AND DERIVATIVE MARKET

Month	Topic
June	**Introduction to Commodities Market and Derivatives Market** a) Introduction to Commodities Market : Meaning, History & Origin, Types of Commodities Traded, Structure of Commodities Market in India, Participants in Commodities Market, Trading in Commodities in India, Commodity Exchanges in India & Abroad, Reasons for Investing in Commodities b) Introduction to Derivatives Market: Meaning, History & Origin, Elements of a Derivative Contract, Factors Driving Growth of Derivatives Market, Types of Derivatives, Types of Underlying Assets, Participants in Derivatives Market, Advantages & Disadvantages of Trading in Derivatives Market, Current Volumes of Derivative Trade in India, Difference between Forwards & Futures.
July	**Futures and Hedging** a)Futures: Futures Contract Specification, Terminologies, Concept of Convergence, Relationship between Futures Price & Expected Spot Price, Basis & Basis Risk, Pricing of Futures Contract, Cost of Carry Model b) **Hedging:** Speculation & Arbitrage using Futures, Long Hedge – Short Hedge, Cash & Carry Arbitrage, Reverse Cash & Carry Arbitrage, Payoff Charts & Diagrams for Futures Contract, Perfect & Imperfect Hedge
August	**Options and Option Pricing Models** a)**Options:** Options Contract Specifications, Terminologies, Call Option, Put Option, Difference between Futures & Options, Trading of Options, Valuation of Options Contract, Factors affecting Option Premium, Payoff Charts & Diagrams for Options Contract, Basic Understanding of Option Strategies b) **Options Pricing Models:** Binomial Option Pricing Model, Black - Scholes Option Pricing Model
September	**Trading, Clearing & Settlement In Derivatives Market and Types of Risk** a)**Trading, Clearing & Settlement In Derivatives Market:** Meaning and Concept, SEBI Guidelines, Trading Mechanism – Types of Orders, Clearing Mechanism – NSCCL – its Objectives & Functions, Settlement Mechanism – Types of Settlement b) **Types of Risk:** Value at Risk, Methods of calculating VaR, Risk Management Measures, Types of

Semester / Term Syllabus Planning

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TEACHING AND LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

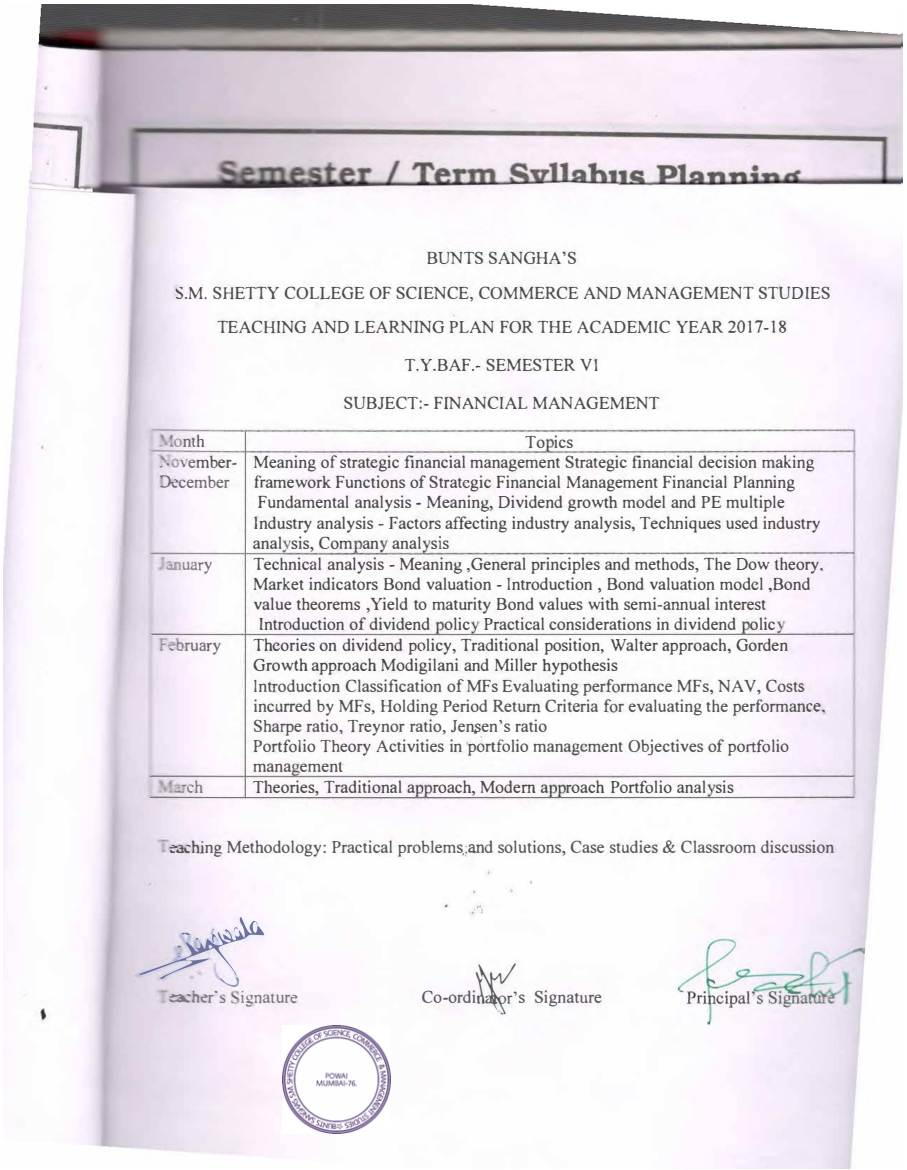
T.Y.B.M.S.- SEMESTER VI

SUBJECT : RISK MANAGEMENT

Month	Topics
November-December	Foundation of Corporate Communication • Definition, Risk Process, Risk Organization, Key Risks –Interest, Market, Credit, Currency, Liquidity, Legal, Operational • Risk Management V/s Risk Measurement – Managing Risk, Diversification, Investment Strategies and Introduction to Quantitative Risk Measurement and its Limitations • Principals of Risk - Alpha, Beta, R squared, Standard Deviation, Risk Exposure Analysis, Risk Immunization, Risk and Summary Measures –Simulation Method, Duration Analysis, Linear and other Statistical Techniques for Internal Control
January	Risk Hedging Instruments and Mechanism: • Forwards, Futures, Options, Swaps and Arbitrage Techniques, Risk Return Trade off, Markowitz Risk Return Model, Arbitrage Theory, System Audit Significance in Risk Mitigation Enterprise Risk Management: • Risk Management V/s Enterprise Risk Management, Integrated Enterprise Risk Management, ERM Framework, ERM Process, ERM Matrix, SWOT Analysis, Sample Risk Register Risk Governance: • Importance and Scope of Risk Governance, Risk and Three Lines of Defense, Risk Management and Corporate Governance
February	Risk Assurance: • Purpose and Sources of Risk Assurance, Nature of Risk Assurance, Reports and Challenges of Risk Risk and Stakeholders Expectations: • Identifying the Range of Stakeholders and Responding to Stakeholders Expectations Insurance Industry: • Global Perspective, Regulatory Framework in India, IRDA - Reforms, Powers, Functions and Duties. Role and Importance of Actuary Players of Insurance Business: • Life and Non- Life Insurance, Reinsurance, Bancassurance, Alternative Risk Trance, Insurance Securitization, Pricing of Insurance products, Expected Claim Costs, Risk Classification
March	Claim Management: • General Guidelines, Life Insurance, Maturity, Death, Fire, Marine, Motor

Teaching Methodology:- PPT presentation & Classroom Discussion

Teacher's Signature Co-ordinator's Signature Principal's Signature



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TEACHING AND LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

T.Y.BAF.- SEMESTER VI

SUBJECT:- FINANCIAL MANAGEMENT

Month	Topics
November-December	Meaning of strategic financial management Strategic financial decision making framework Functions of Strategic Financial Management Financial Planning Fundamental analysis - Meaning, Dividend growth model and PE multiple Industry analysis - Factors affecting industry analysis, Techniques used industry analysis, Company analysis
January	Technical analysis - Meaning ,General principles and methods, The Dow theory. Market indicators Bond valuation - Introduction , Bond valuation model ,Bond value theorems ,Yield to maturity Bond values with semi-annual interest Introduction of dividend policy Practical considerations in dividend policy
February	Theories on dividend policy, Traditional position, Walter approach, Gorden Growth approach Modigilani and Miller hypothesis Introduction Classification of MFs Evaluating performance MFs, NAV, Costs incurred by MFs, Holding Period Return Criteria for evaluating the performance, Sharpe ratio, Treynor ratio, Jensen's ratio Portfolio Theory Activities in portfolio management Objectives of portfolio management
March	Theories, Traditional approach, Modern approach Portfolio analysis

Teaching Methodology: Practical problems and solutions, Case studies & Classroom discussion

Teacher's Signature Co-ordinator's Signature Principal's Signature

S.M. SHETTY COLLEGE OF SCIENCE, COMMERCE & MANAGEMENT STUDIES POWAI MUMBAI-76

Semester / Term Syllabus Planning

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TEACHING AND LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

T.Y.BAF.- SEMESTER VI

SUBJECT:- FINANCIAL MANAGEMENT

Month	Topics
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March	Theories, Traditional approach, Modern approach Portfolio analysis

Teaching Methodology: Practical problems and solutions, Case studies & Classroom discussion

Teacher's Signature Co-ordinator's Signature Principal's Signature

S.M. SHETTY COLLEGE OF SCIENCE, COMMERCE & MANAGEMENT STUDIES POWAI MUMBAI-76.

Semester / Term Syllabus Planning

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S.M. SHETTY COLLEGE OF SCIENCE, COMMERCE AND MANAGEMENT STUDIES
TEACHING AND LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18
S.Y.B.Com. - SEMESTER IV SUBJECT:- FINANCIAL ACCOUNTING AND AUDITING IV

Month	Topics
November-December	Basics – Financial Statements, Users of Information, Definition of Auditing, Objectives of Auditing, Inherent limitations of Audit, Difference between Accounting and Auditing, Investigation and Auditing. Errors & Frauds – Definitions, Reasons and Circumstances, Types of Error, Types of frauds, Risk of fraud and Error in Audit, Auditors Duties and Responsibilities in case of fraud. Principles of Audit, Materiality, True and Fair view D. Types of Audit – Meaning, Advantages, Disadvantages of Balance sheet Audit, Interim Audit, Continuous Audit, Concurrent Audit and Annual Audit, Statutory Audit Audit Planning – Meaning, Objectives, Factors to be considered, Sources of obtaining information, Discussion with Client, Overall Audit Approach
January	Audit Program – Meaning, Factors, Advantages and Disadvantages, Overcoming Disadvantages, Methods of Work, Instruction before commencing Work, Overall Audit Approach. Audit Working Papers – Meaning, importance, Factors determining Form and Contents, Main Functions / Importance, Features, Contents of Permanent Audit File, Temporary Audit File, Ownership, Custody, Access of Other Parties to Audit Working Papers, Auditors Lien on Working Papers, Auditors Lien on Client's Books. Test Check – Test Checking Vs Routing Checking, test Check meaning, features, factors to be considered, when Test Checks can be used, advantages, disadvantages, precautions. Audit Sampling – Audit Sampling, meaning, purpose, factors in determining sample size – Sampling Risk, Tolerable Error and expected error, methods of selecting Sample Items Evaluation of Sample Results auditors Liability in conducting audit based on Sample
February	Internal Control – Meaning and purpose, review of internal control, advantages, auditors duties, review of internal control, Inherent Limitations of Internal control, internal control samples for sales and debtors, purchases and creditors, wages and salaries. Internal Checks Vs Internal Control, Internal Checks Vs Test Checks. Internal Audit : Meaning, basic principles of establishing Internal audit, objectives, evaluation of internal Audit by statutory auditor, usefulness of Internal Audit, Internal Audit Vs External Audit, Internal Checks Vs Internal Audit Audit of Income : Cash Sales, Sales on Approval, Consignment Sales, Sales Returns Recovery of Bad Debts written off, Rental Receipts, Interest and Dividends Received Royalties Received Audit of Expenditure : Purchases, Purchase Returns, Salaries and Wages, Rent, Insurance Premium, Telephone expense Postage and Courier, Petty Cash Expenses, Travelling Commission Advertisement, Interest Expense
March	Audit of Assets Book Debts / Debtors, Stocks – Auditors General Duties; Patterns, Dies and Loose Tools, Spare Parts, Empties and Containers Quoted Investments and Unquoted Investment Trade Marks / Copyrights Patents Know-How Plant and Machinery Land and Buildings Furniture and Fixtures Audit of Liabilities : Outstanding Expenses, Bills Payable Secured loans Unsecured Loans, Contingent Liabilities

Teaching Methodology: PPT presentation, Case study & Classroom Discussion

Semester / Term Syllabus Planning

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S.M. SHETTY COLLEGE OF SCIENCE, COMMERCE AND MANAGEMENT STUDIES

TEACHING AND LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

S.Y.B.M.S.- SEMESTER IV

SUBJECT:- STRATEGIC COST MANAGEMENT

Month	Topics
November-December	Strategic Cost Management (SCM): Concept and Philosophy-Objectives of SCM-Environmental influences on cost management practices, Key elements in SCM-Different aspects of Strategic Cost Management: Value Analysis & Value Engineering, Wastage Control, Disposal Management, Business Process Reengineering, Total Quality Management, Total Productive Maintenance, Energy Audit, Control of Total Distribution Cost & Supply Cost, Cost Reduction & Product Life Cycle Costing(An Overview)
January	Activity Based Management and Activity Based Budgeting: Concept, rationale, issues, limitations. Design and Implementation of Activity Based Costing (Practical Problems on ABC), Life Cycle Costing, Kaizen Costing, Back Flush Costing. Evaluation criterion; Return on Cash Systems; Transfer Pricing and Divisional Performance. Transfer Pricing in International Business, Marginal Costing and Managerial Decision Mix (Practieal Problems)
February	Cost Audit & Management Audit under companies Act, with reference to strategic assessment of cost & managerial performance- Strategic Cost-Benefit Analysis of different business restructuring propositions-Entrepreneurial approach to cost Management, with reference to core competencies, strategic advantages & long-term perspective of cost Management. Six Sigma, Learning Curve, Praise Analysis and Simulation Standard Costing (Material, Labour, Overhead, Sales & Profit)
March	Responsibility Accounting –Introduction, Types & Evaluation of Profit Centre and Investment Centre

Teaching Methodology:- Practical problems and solutions, Case studies & Classroom discussion

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TEACHING AND LEARNING PLAN FOR THE ACADEMIC YEAR 2017-18

S.Y.BAF.- SEMESTER IV

SUBJECT :- RESEARCH METHODOLOGY IN ACCOUNTING AND FINANCE

Month	Topics
November-December	Introduction and meaning of research, Objectives of research, Features and Importance of research in Accounting and Finance,
January	Objectives and Types of research - Basic, Applied, Descriptive, Analytical and Empirical Research. Formulation of research problem : Meaning and Selection Review of Literature
February	Meaning of Introduction, Need, and Good research design. Hypothesis: Formulation, Sources, Importance and Types
March	Different Research designs

Teaching Methodology: PPT presentation & Classroom Discussion

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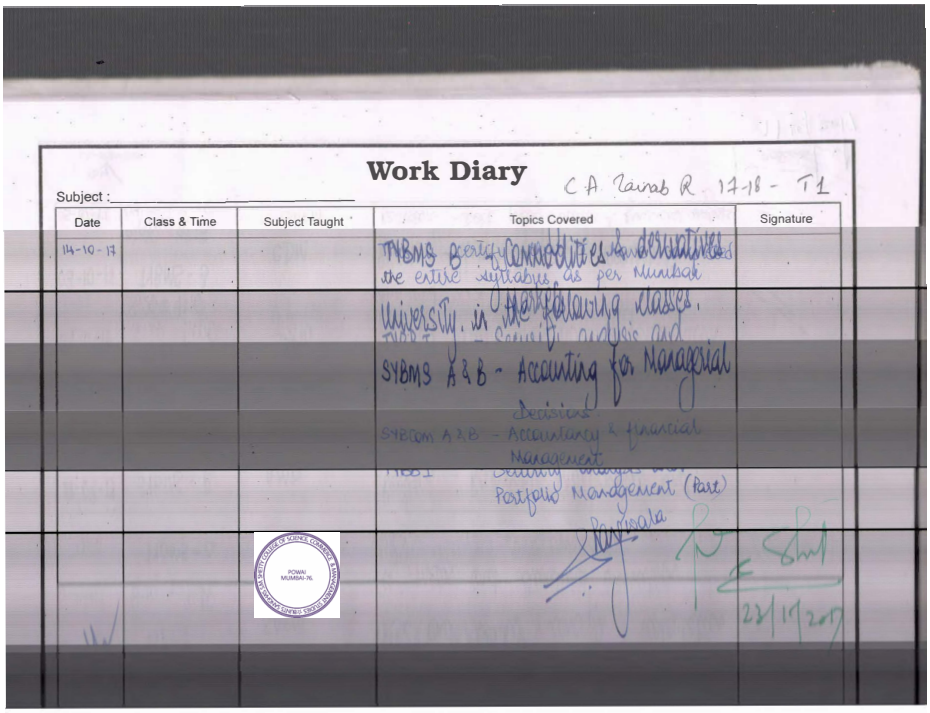
Semester / Term Syllabus Planning

T.Y.B.B.I. - SEMESTER V
SECURITY ANALYSIS AND PORTFOLIO MANAGEMENT

Topics
Financial Statement Analysis: a)Financial Statement : Financial Ratios, Comparative Analysis, Du Pont Analyses, Problems in Financial Statement Analysis b) Introduction to Fundamental Analysis: Macroeconomic Analysis, Industry Analysis, Company Analysis, Estimation of Intrinsic Value, Judging Undervaluation / Overvaluation
Financial Statement Analysis: c) Introduction to Technical Analysis: What is Technical Analysis? , Basic introduction to Charting Techniques **The Time Value of Money:** Meaning of Time Value, Future Value of a Single Amount, Present Value of a Single amount, Future Value of an Annuity, Present Value of an Annuity, NPV for even and uneven cash flows
Analysis and valuation of Debt: Types & Features of Debt Instruments, Bond Pricing - Discount Model, Concept of Bond Yields, Concept of Risk in Debt, Basic introduction to Interest Rate movement and its link to Bond Price, Understanding the Determinants of Interest Rates, Rating of Debt Securities **Equity Valuation:** Balance Sheet Valuation, Dividend Discount Model, Earnings Multiplier Approach/P-E Approach
Risk and Return: Meaning of Risk, Basic Introduction to Types of Risks, Measures of Risk, Basic Practical problems on standard deviation and holding period returns. **Revision and Solving previous year's papers.**

S.Y.B.M.S. - SEMESTER III
ACCOUNTING FOR MANAGERIAL DECISIONS

Topics
Analysis and Interpretation of Financial Statements a)Study of Balance Sheet Schedule VI of Limited Company. Study of Manufacturing Trading Profit & Loss A/c of Limited Company. b)Vertical Forms - Relationship between items in Balance Sheet and Profit and Loss Account. Trend Analysis, Comparative Statement and Common Size Statement.
Ratio Analysis and Interpretation a) Balance Sheet Ratios:-Current Ratio, Liquid Ratio, Stock Working Capital Ratio, Proprietary Ratio, Debt Equity Ratio, Capital Gearing Ratio b) Revenue Statement Ratios:-Gross Profit Ratio, Expenses Ratio, Operating Ratio, Net Profit Ratio, Net Operating Profit Ratio, Stock Turnover Ratio c)) Combined Ratios:-Return on Capital Employed (Including Long Term Borrowings),Return on Proprietor's Fund (Shareholders Fund and Preference Capital),Return on Equity Capital, Dividend Pay out Ratio, Debt Service Ratio, Debtors Turnover, Creditors Turnover Different Modes of Expressing Ratios:- Rate, Ratio, Percentage, Number etc. Limitations of the use of Ratios, Interaction of Ratios.
Cash Flow Statement Preparation of Cash Flow Statement (Accounting Standard-3 Revised)
Working Capital a)Working Capital: Concepts, Estimation of requirements in case of Trading and Manufacturing Organizations. b)Receivables Management: Meaning and importance, Credit Policy Variables, methods of credit evaluation (Traditional and numerical- credit scoring), Monitoring the debtor Techniques (DSO, Ageing



Work Diary

Subject : _____ CA Rahul R 17-18 - T1

Date	Class & Time	Subject Taught	Topics Covered	Signature
14-10-17			TYBMS Security Analysis & derivatives the entire syllabus as per Mumbai University in the following classes. SYBMS A & B - Accounting for Managerial Decisions SYBCom A & B - Accountancy & financial Management Portfolio Management (Part)	28/10/2017

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Work Diary

CA Tanvab R. 17-18 - T1

Subject :_____

Date	Class & Time	Subject Taught	Topics Covered	Signature
14-10-17			This is certify that I have completed the entire syllabus as per Mumbai University. in the following classes. SYBMS A & B - Accounting for Managerial Decisions. SYBCom A & B - Accountancy & financial Management TYBMS B - Commodities & derivatives Markets TYBBI - Security analysis and Portfolio Management (Part)	23/10/2017

Coordinator

Principal

Work Diary

C.A. Zainab R. 1718T2

Subject: ______________________

Date	Class & Time	Subject Taught	Topics Covered	Signature
24-03-18		POWAI MUMBAI-76.	This is to declare that I have completed the entire syllabus as per University of Mumbai in the following classes. SYBMS B - Strategic Cost Management SYBCom A & B - Accountancy & financial Management SYBAF - Research Methodology in Accountancy & finance (Part) TYBMS B - Risk Management TYBAF - Financial Management Rangwala	

Co-ordinator

Principal

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