


WORK PLAN FOR TEACHERS (SEMESTER - WISE) I, III and V 2020-2021

Name of the Teacher: Archana Bhide

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	LINKS OF VIDEO AND AUDIO CLIP	MODE OF TEACHING*	ESTIMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDANCE	HOD Sign
FY	<p>Sem I Digital Electronics Unit 1 : Number System: Analog System, digital system, numbering systems - binary, octal, hexadecimal, conversions, weighted and non weighted codes, Error detection and correction, Universal Product Code, Code conversion. Binary Arithmetic Unit 2: Boolean Algebra and Logic Gates: Study of basic logic gates, universal gates, boolean algebra equations, simplification using Minterm, Maxterm, K map and QM Method Unit 3: Combinational Logic Circuit: Circuits with multi input / output, Arithmetic Circuits Unit 4: Multiplexer, Demultiplexer, ALU, Encoder and Decoder, Sequential circuits - Flip Flops Unit 5 : Counters and Shift Registers Practical: Implementation of Digital Circuits using online mode (tinkercad.com)</p>	60	Unit 1 -- 15 Unit 2 -- 12 Unit 3 -- 12 Unit 4 -- 13 Unit 5 -- 13 (total 65)	5	https://classroom.google.com/c/MT E3MjAwOTE3NDQ1/m/MjM1NjcyNjg2ODUx/details	Online platform - zoom with PPT/ Sharing of E-Content/ Practical Implementation using web browser	50%	55%	Yes	60 - 75%	

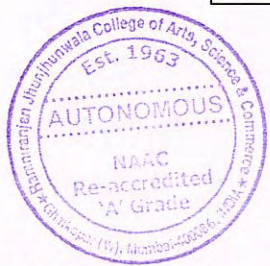



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TY	<p>Sem V Internet of Things Unit 1: The Internet of Things: An Overview: Introduction, Stakeholders, Enchanted objects, M2M and IOT fundamentals, implications of IOT, Design principles for connected devices Unit 2: Internet Principles: IP addressing and network protocols for IOT, Thinking about Prototyping Unit 3: Prototyping Embedded Devices: Sensors, Actuators, Raspberry Pi, Working Principles, Limitations and challenges of IOT Unit 4: Techniques for writing Embedded code, Business Models: Mass production, open source vs closed source development Unit 5: Moving to manufacture: Deployment, scaling up, Ethics Practical based on relevant topics</p>	60	Unit 1 -- 12 Unit 2 - 10 Unit 3 - 12 Unit 4 - 12 Unit 5 - 10 (total - 56)	--	https://classroom.google.com/c/MT E3MTkyNTE3MTkyNTQxMzk4/m/MTI2Nzk0NzQ0MjAy/de tails https://classroom.google.com/c/MT E3MTkyNTE3MTkyNTQxMzk4/m/ MjE0NDQz MDg1MTk1/ details	Online platform - zoom with PPT/ Sharing of E-Content/ Practical Implementation using web browser	50%	55%	Yes	60-75%	
MSc Part II	<p>Sem III: Robotics Unit 1: Basic Concepts - History, Types, Programming and Applications Unit 2: Direct and Inverse Kinematics Unit 3: Manipulator differential motions Unit 4: Path Planning Unit 5: Dynamics and Control Practicals: Implementation of Robotic tasks like cutting, painting, pick and place using RoboAnalyser and RoboDK</p>	60	Unit 1 -- 11 Unit 2 - 10 Unit 3 - 12 Unit 4 - 12 Unit 5 - 10 (total - 55)	--	https://drive.google.com/file/d/1SrRTQrPHPzhpMxreNVc3ETyd2qVjQrSg/view https://classroom.google.com/c/MT MzZxcxMjIx OTgy/m/MT E2MTc4MT EyMjUy/det	Online google meet with PPT/ Sharing of E-Content/ Practical Implementation	50%	50%	Yes	40 - 50%	

* = Chalk-N-Board/ OHP/ PPT/ Quiz Format/ YouTube Clips/ Using Smart Board/ Sharing of E-Content/ Simulation

1,2 = 60% and Above -- Difficult, Between 40% - 60% -- Easy to learn, Below 40% -- Very Easy



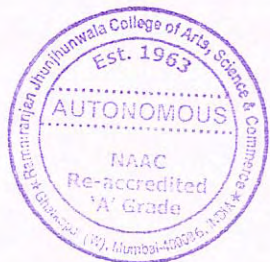
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WORK PLAN FOR TEACHERS (SEMESTER - WISE) II, IV and VI 2020-2021

Name of the Teacher: Archana Bhide

Department: Information Technology


CLASS	UNIT/TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	LINKS OF VIDEO AND AUDIO CLIP	MODE OF TEACHING*	ESTINMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDENCE	HOD Sign
FY	<p>Sem II Microprocessor Architecture Unit 1: Microprocessor, microcomputers, and Assembly Language, Microprocessor Architecture and Microcomputer System, 8085 Microprocessor Architecture and Memory Interface Unit 2: Interfacing of I/O Devices, Introduction to 8085 Assembly Language Programming, Introduction to 8085 Instructions Unit 3: Programming Techniques With Additional Instructions, Counter and Time Delays, Stacks and Subroutines Unit 4: Code Conversion, BCD Arithmetic, and 16-Bit Data Operations, Software Development System and Assemblers, Interrupts Unit 5: Introduction to 16 bit microprocessor 8086, Introduction to 32 bit microprocessor -80286, 80386 and 80486, Introduction to Intel Pentium Processor Practicals on Assembly Language Programs</p>	60	Unit 1 -- 15 Unit 2 -- 15 Unit 3 -- 10 Unit 4 --12 Unit 5 -- 15 (Total 67)	7	https://classroom.google.com/c/MT E3MjAwOTgyNDg1/m/MjU4MDg5NTc1MTEx/details https://classroom.google.com/c/MT E3MjAwOTgyNDg1/m/MzExNTgwMjgyMjQ5/details	Online zoom platform with PPT/ Sharing of E-Content/ Practical Implementation - 8085 ultimate mobile app, IIT virtual lab	55%	60%	yes	60-75%	




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SY	<p>Sem IV Introduction to Embedded System - Unit 1: Introduction, Core of Embedded System, Characteristics and Attributes of ES Unit 2: Domain specific and Application Specific ES, Peripherals, Programming ES Unit 3: The 8051 microcontroller, Designing Embedded system with 8051 microcontroller, 8051 Programming in C Unit 4: Introduction to Arduino, Arduno programming, Arduno and wireless communication Unit 5: Real time OS, Design and development Practical Implementation (Tinkercad.com)</p>	60	Unit 1 -- 12 Unit 2 -- 12 Unit 3 -- 15 Unit 4 -- 12 Unit 5 -- 10 (Total 62)	2	https://www.youtube.com/watch?v=YH10AOwUaMA - - https://classroom.google.com/c/MTc1OTQ2/m/E3MjAwOTc1OTQ2/m/MjY2Mzk2MTIzOTE3/details - - https://classroom.google.com/c/MTc1OTQ2/m/MTE3MjAwOTc1OTc5/details	Online zoom platform using PPT/ YouTube Channel/ Sharing of E-Content/ Practical Implementation using tinkercad.com	55%	50%	Yes	60 - 75%	
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SY	Sem IV Software Engineering Unit 1: Introduction, SDLC, Process models, Agile software development, Requirement Engineering Unit 2: System Models, Architectural Design, User Interface Design Unit 3: Project Management, Quality Management, Process Improvement Unit 4: Verification and Validation, Software Testing, Software Cost Estimation Unit 5: Service Oriented SE, Software Reuse, Distributed SE	60	Unit 1 -- 15 Unit 2 -- 15 Unit 3 -- 12 Unit 4 -- 12 Unit 5 -- 12 (Total 66)	6		Online google meet with PPT/ YouTube Clips/ Sharing of E-Content	60%	55%	Yes	60 - 75%
MSc Part II	Sem IV Virtual and Augmented Reality Unit 1: Introduction to Virtual Reality, Introduction to Augmented Reality, geometry of Virtual Worlds Unit 2: Light and optics, Physiology of Human vision, Visual Perception Unit 3: Visual Rendering, Motion in Real and Virtual World, Tracking and Interaction Unit 4: Audio, Evaluating VR Systems and Experiences Unit 5: Experience Design, Future of VAR	30	Unit 1 -- 8 Unit 2 -- 6 Unit 3 -- 6 Unit 4 -- 8 Unit 5 -- 8 (total 36)	6		Online google meet with PPT/ YouTube Clips/ Sharing of E-Content	60%	55%	Yes	40 - 50%

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WORK PLAN FOR TEACHERS (SEMESTER - WISE) I, III and V 2020-2:

Name of the Teacher: Bharati Bhole

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	MODE OF TEACHING*	LINKS OF VIDEO AND AUDIO CLIP	ESTIMATED DEGREE OF DIFFICULTY (1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY (2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDANCE	HOD Sign
BSc IT SY	Data Structure -Practical	20	20	-	Online(Zoom)/ PPT/ YouTube Clips/ Sharing of E-Content/ Simulation/Virtual Lab		80%	80%	Yes	60%	
MSc IT Part I	Foundation of Data Science Theory and Practical Unit I: Mathematics for Data Science, Exploratory Data Analysis, Exploring Binary and categorical data. Unit II: Data and Sampling Distributions, Distributions, Significance Testing Unit III: Basic Probability and Terms, Data Transformations and quality analysis Unit IV: Hypothesis testing. Regression and Prediction Unit V: Classification, Statistical Machine Learning, Unsupervised Learning, Time Series	60	60	4	Online(Google meet)/ PPT/ Sharing of E-Content/ Simulation/Virtual Lab	https://classroom.google.com/u/1/w/MjlxNDkzNzAwMzI0/tc/MjlyMjgzNikwMzc4	85%	80%	Yes	60%	

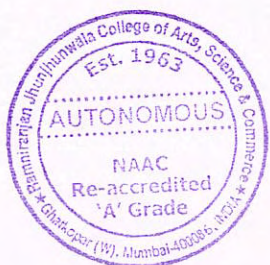



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MSc IT Part II	Deep Learning Theory & Practical Unit I: Artificial Neural Networks, Training of neural networks Unit II: Deep Neural Networks Unit III: Convolutional Neural Networks Unit IV: Recurrent Neural Networks Unit V: GPU in Deep Learning	60	60	6	Online(Google Meet)/ PPT/ YouTube Clips/ Sharing of E- Content/ Simulation/Vi rtual Lab	https://www.deeplearning.ai/program/deep-learning-specialization/	90%	90%	Yes	75%
MSc IT Part II	CHF1 Practical	20	20	3	Online(Google meet)/ PPT/ YouTube Clips/ Sharing of E- Content/ Simulation/Vi rtual Lab	https://www.youtube.com/channel/UCOSFVxvpr3OPiaJSwHWN8BQ	50%	50%	Yes	75%

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WORK PLAN FOR TEACHERS (SEMESTER - WISE) II, IV and IV 2020-2021

Name of the Teacher: Bharati Bhole

Department: Information Technology

CLASS	UNIT/TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	MODE OF TEACHING*	LINKS OF VIDEO AND AUDIO CLIP	ESTINMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDANCE	HOD Sign
TY	Business Intelligence Theory & Practical Unit I :Business intelligence, Decision support systems Unit II:Mathematical models for decision making, Data mining, Data preparation Unit III :Classification, Clustering Unit IV :Business intelligence applications: Marketing models, Logistic and production models, Data envelopment analysis Unit V :Knowledge Management, Artificial Intelligence and Expert Systems	60	60	1	Online(Zoom) / PPT/ Sharing of E-Content/Virtual Lab		60%	60%	Yes	60%	
MSc IT Part I	Big Data Analytics Theory & Practical Unit I: Introduction to Big Data Unit II: Hadoop Framework Unit III: Data Analysis Unit IV: Mining Data Streams Unit V: Big Data Framework	60	43		Online(Google meet)/ PPT/ Flipped Classroom/ Sharing of E-Content/ Virtual Lab	https://classroom.google.com/u/1/w/MzE2Njc3OTI4OTE4/t/all	90%	90%	Yes	60%	




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MSc IT Part II	Natural Language Processing Theory & Practical Unit I: Lexical Processing Introduction to NLP, Basic Lexical Processing, Advanced Lexical Processing Unit II: Syntactic Processing Introduction to Syntactic Processing, Parsing, Information Extraction, Conditional Random Fields Unit III: Semantic Processing Introduction to Semantic Processing, Distributional Semantics Unit IV: Topic Modelling Unit V: Building Chatbots With Rasa	60	43		Online(Google meet)/ PPT/ YouTube Clips/ Sharing of E-Content/ Simulation/Virtual Lab		90%	90%	Yes	75%	
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WORK PLAN FOR TEACHERS (SEMESTER - WISE) II, IV and VI 2020-2021

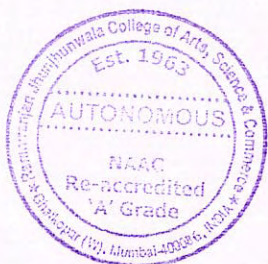
Name of the Teacher: Jeba Roselet


Department: Information Technology

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FY	<p>Sem II -Python Pogramming Unit 1,2,3,4, and 5 & Practicals</p> <p>Unit I :Introduction, Variables and Expressions, Conditional Statements, Looping, Control statements</p> <p>Unit II:Functions, Strings</p> <p>Unit III :Lists, Tuples and Dictionaries, Files, Exceptions</p> <p>Unit IV :Regular Expressions, Classes and Objects, Multithreaded Programming, Modules</p> <p>Unit V :Creating the GUI Form and Adding Widgets, Layout Management, Look and Feel Customization, Storing Data in Our MySQL Database via Our GUI.</p> <p>Practical 1 to 5 Use of python programming language to use functions to work with data structure</p> <p>Practical 6 Use of python programming language for file handling</p> <p>Practical 7 Using python for object oriented programming</p> <p>Practical 8 Use python programming for exception handling</p> <p>Practical 9 Use python with Database</p>	60	60	2		PPT/ YouTube Clips/ / Sharing of E- Content/Sim ulation	50%	55%	Yes	80%	


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SY	Sem IV -Software Engineering Practicals Implementation of Class Diagrams. Implementation of Use Case Diagrams. Implementation of Entity Relationship Diagrams. Implementation of Sequence Diagrams. Implementation of State Transition Diagrams. Implementation of Data Flow Diagrams. Implementation of Collaboration Diagrams. Implementation of Activity Diagrams. Implementation of Component Diagrams. Implementation of Deployment Diagrams	20	20			PPT/ Sharing of E- Content/Sim ulation	50%	60%	Yes	70%
TY	Sem VI- Security in Computing Unit 1,2,3,4, and 5 and Practicals Unit I :Information Security Overview, Risk Analysis, Secure Design Principles Unit II:Authentication and Authorization, Encryption, Storage Security, Database Security Unit III :Secure Network Design, Network Device Security, Firewalls, Wireless Network Security Unit IV :Intrusion Detection and Prevention Systems, Voice over IP (VoIP) and PBX Security, Operating System Security Models Unit V :Virtual Machines and Cloud Computing, Secure Application Design, Physical Security	60	60			PPT/ YouTube Clips/ / Sharing of E- Content	50%	60%	Yes	70%





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PG	Msc Part -I Sem IV Block chain Technologies Unit 1,2,3,4, and 5 Unit I: Blockchain Fundamentals Unit II: Web Technologies & Programming Fundamentals Unit III: Introduction to Ethereum Unit IV: Building Ethereum Applications Unit V: Alternate Public, Federated and Private Blockchain and comparisons Limitation of Public Blockchains, Enterprise expectations on Blockchain, Benefits of private Blockchain	40	34	https://drive.google.com/drive/folders/124M5m8vybdMK4i26gF6eKKTPh0t0AlJe?usp=sharing	PPT/ YouTube Clips/ / Sharing of E-Content	70%	75%	Yes	59%	
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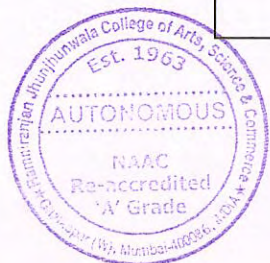

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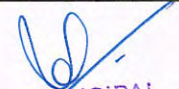
WORK PLAN FOR TEACHERS (SEMESTER - WISE) I, III and V 2020-2021

Name of the Teacher: Jeba Roselet

Department: Information Technology

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FY	Sem I -Business Communication Skills Unit 1,2,3,4, and 5 and Practicals Unit I : The Seven C's of Effective Communication, Understanding Business Communication Unit II: Writing Business Messages and Documents, Developing Oral Communication Skills for Business, Presentation Process Unit III : Developing Oral Communication Skills for Business -Interviews , Meetings Unit IV : Developing Oral Communication Skills for Business -Group Discussions and Team Presentations,Communication Across Functional Areas Unit V: Understanding Specific Communication Needs	60	58		https://drive.google.com/file/d/1UO_86I3Uj7PLPX87docXypWpD37BDriu/viiew?usp=sharing	PPT/ YouTube Clips/ / Sharing of E-Content	50%	55%	Yes	75%	
SY	Sem III-Mobile Programming Practical Introduction to App Inventor and App Inventor IDE Introduction to Layout component Introduction to Sensor component Introduction to Media component Introduction to Drawing and Animation component Introduction to Map component and Social component Introduction to storage component Designing Game App	20	20	4	https://drive.google.com/file/d/1FkwtQ38bYD4Igd9Jkmyo_wVBNUs_Gw9F/viiew?usp=sharing	PPT/ YouTube Clips/ / Sharing of E-Content/Simulation	50%	60%	Yes	70%	




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TY	Sem V- Linux Administration Unit 1,2,3,4, and 5 and Practicals Unit I :Introduction to Red Hat Enterprise Linux, Command Line, System Administration Tasks, Managing Software Unit II:Configuring and Managing Storage, Connecting to the Network Unit III :Securing Server with ip tables, Setting Up Cryptographic Services, Configuring Server for File Sharing Unit IV :Configuring DNS and DHCP, Setting Up a Mail Server, Configuring Apache on Red Hat Enterprise Linux Unit V :Introducing Bash Shell Scripting, High-Availability Clustering, Setting Up an Installation Server	60	60		https://drive.google.com/file/d/1ONcituPADniAu_bzbcjUbaqFiSPeSSvt/view?usp=sharing	PPT/ YouTube Clips/ / Sharing of E-Content	50%	60%	Yes	70%
PG	Msc Part -I Sem II Cloud Computing Unit 1,2,3,4, and 5 and Practicals Unit I: Introduction, Principles of Parallel and Distributed Computing Unit II: Virtualization, Cloud Computing Architecture Unit III: Public Cloud Platforms, Inter-cloud Resource Management, Cloud Security and Trust management, Cloud Programming and Software Environments, Programming Paradigms Unit IV: Programming Support of Google App Engine, Programming on Amazon AWS and Microsoft Azure, Programming support Emerging Cloud Software Environments Unit V: Energy efficiency in clouds, Cloud Applications	60	60	6	https://drive.google.com/drive/folders/1oRaSr4Hm_rCgiWqjb-FsDkicckbelFvqEK?usp=sharing	PPT/ YouTube Clips/ / Sharing of E-Content	50%	60%	Yes	55%

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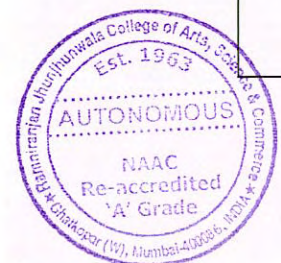

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Name of the Teacher: Mrs. Prachi A. Surve

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FY	Sem I - Discrete Mathematics Unit 1 - Set , Logic , Quantifies statements, Unit 2 - Elementary Number Theory and Methods of Proof , Indirect Argument, Unit 3- Sequences, Mathematical Induction, and Recursion,Functions , Unit 4 - Graphs and Trees, Relations and Unit 5- Counting and Probability,The Addition Rule, The Pigeonhole Principle	60	70	----		Zoom/google meet/ Quiz Format/Sharing of E-Content	40 %	45 %	Yes	65%	
SY	Sem III - Object Oriented Programming Unit 1 - Object Oriented Methodology,Principles of OOPS,Introduction to classes and Objects Unit 2 - Introduction to Java,Constants, Variables, Data types, operators and Expressions, Decision Making: branching and looping ByteStreams, Unit 3 - Polymorphism,Inheritance,Virtual Functions: Introduction and need, Pure Virtual Functions, Abstract class ,Unit 4 - Interfaces,Multithreaded Programming and Unit 5 - Managing Errors and Exceptions,Packages,Managing I/O files	60	58	----		Zoom/google meet/ Quiz Format/Sharing of E-Content	75%	75%	YES	70%	



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TY	Sem V- Enterprise Java Unit 1 -Understanding Java EE ,Java EE Architecture, Server and Containers,Introduction to Java Servlets,Servlet API and Lifecycle,Working With Servlets,Working with Databases Unit 2-Request Dispatcher,COOKIES,Working With Files,Working With Non-Blocking I/O , Unit 3 - Introduction To Java Server Pages,Started With Java Server Pages,Action Elements,Implicit Objects, Scope And El Expressions,Java Server Pages Standard Tag Libraries	45	45	---		Zoom/google meet/ Quiz Format/Sharing of E-Content	80%	85%	Yes	68%
PG	Sem III- Amazon Web Architecture Unit 1=Introduction to AWS,Amazon Simple Storage Service (Amazon S3) and Amazon Glacier , Unit 2-Amazon Elastic Compute Cloud (Amazon EC2) and Amazon Elastic Block Store (Amazon EBS),Elastic Load Balancing, Amazon CloudWatch, and Auto Scaling , Unit 3- Amazon Virtual Private Cloud (Amazon VPC) ,AWS Identity and Access Management (IAM) ,Databases and AWS , Unit 4-SQS, SWF, and SNS ,Domain Name System (DNS) and Amazon Route 53,Amazon ElastiCache,Additional Key Services and 5-Security on AWS,AWS Risk and Compliance Architecture Best Practices	40	53	---		Zoom/google meet/ Quiz Format/Sharing of E-Content	70%	70%	YES	59%

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WORK PLAN FOR TEACHERS (SEMESTER - WISE) II, IV, VI and PG 2020-2021

Name of the Teacher: Mrs. Prachi A. Surve

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	LINKS OF VIDEO AND AUDIO CLIP	MODE OF TEACHING*	ESTINMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDENCE	HOD Sign
FY	Sem II - Web Programming Unit 1 Internet and the World Wide Web,HTML5, Unit 2 - HTML5 Page layout and navigation,HTML5 Tables, Forms and Media, Unit 3 - JavaScript,Operators,Statements,Core JavaScript (Properties and Methods of Each)Document and its associated objects: document, Link, Area, Anchor, Image, Applet, Layer Events and Event Handlers, Unit 4 - PHP and Unit 5-Advanced PHP and MySQL	60	62	----		Zoom/google meet/ Quiz Format/Sharing of E-Content	70%	70%	Yes	80%	
SY	Sem IV - Advance Java Unit 1 - Introduction to GUI,Applet,AWT,Event Handling, Unit 2 - Understanding Java EE,Understanding Java EE,Introduction to Java Servlets,Servlet API and Lifecycle,Working With Servlets, Unit 3 - Working with Databases,COOKIES,SESSION,Request Dispatcher, Unit 4 - Introduction To Java Server Pages,Getting Started with Java Server Pages,Action Elements,Implicit Objects, Scope and El Expressions,Java Server Pages Standard Tag Libraries and Unit 5 - Networking in Java,Introduction to Hibernate,Writing Hibernate Application	60	68	----		Zoom/google meet/ Quiz Format/Sharing of E-Content	70%	70%	Yes	61%	




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TY	Sem VI - Geographic Information Systems Unit 1 - Introduction to GIS, Geographic Information and Spatial Database Models and Representations of the real world, Organizing and Managing Spatial Data The Temporal Dimension, Unit 2- Data Management and Processing Systems Hardware and Software Trends, Database management Systems, GIS and Spatial Databases , Unit 3 - Spatial Referencing and Positioning Spatial Referencing, Data Entry and Preparation Spatial Data Input, Point Data Transformation, Data Quality , Unit 4 - Spatial Data Analysis Classification of analytical GIS Capabilities Retrieval, classification and measurement, Overlay functions, Neighborhood functions, Error Propagation in spatial data processing and Unit 5-Data Visualization GIS and Maps, The Visualization Process Visualization Strategies: Present or explore? The cartographic toolbox, Map Cosmetics, Map Dissemination	60	55	---		Zoom/google meet/ Quiz Format/ Sharing of E-Content	60%	65%	Yes	58%
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* = Chalk-N-Board/ OHP/ PPT/ Quiz Format/ YouTube Clips/ Using Smart Board/ Sharing of E-Content/ Simulation

1,2 = 60% and Above -- Difficult, Between 40% - 60% -- Easy to learn, Below 40% -- Very Easy




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 Ghatkopar (W), Mumbai-400086, Maharashtra, INDIA

WORK PLAN FOR TEACHERS (SEMESTER - WISE) I, III and V 2020-2021

Name of the Teacher: Prof. Punam Sindhu

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	MODE OF TEACHING*	LINKS OF VIDEO AND AUDIO CLIP	ESTIMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDANCE	HOD Sign
SY	<p>Sem III - Database Management Systems -</p> <p>Unit 1- Introduction to Databases, purpose and view of data, database architecture, Database design and E R Model, Reduction of ER Schema to Tables</p> <p>Unit 2- Relational Database model, Integrity rules, Functional Dependency, Normalization- 1NF, 2NF, 3NF, BCNF, Relational Algebra</p> <p>Unit 3- SQL- Creating and Managing Tables, Aggregate functions and group by clause, Subqueries and JOIN</p> <p>Unit 4- Transaction management - states of transaction, ACID properties, schedules, Conflict serializability, Concurrency control- timestamp based protocol, validation based protocol, deadlock</p> <p>Unit 5- PL/SQL- Basics, Variable declaration, Composite Data types, Cursor- explicite, Subprograms - procedures and functions</p> <p>DBMS Practicals- SQL and PL/SQL (using online tools)</p>	60	62	2	Zoom/Online-PPT/Sharing of E-Content, Video, Practical- SQL Oracle live	https://classroom.google.com/j/2/w/MTE3MjAwOTc1OTQ2/tc/MTE3MzQ3MzQ0NDk1	65%	70%	Yes, Quiz link is posted after each lecture	70%	
TY	<p>Sem V - Software Project Management-</p> <p>Unit 1- Project Management Important? Activities Covered by Software Project Management, Project Charter, Stakeholders, Cost–benefit Evaluation Techniques, Risk Evaluation</p> <p>Unit 2- Selection of Appropriate approach, Software Effort Estimation, Albrecht Function Point Analysis - concept and examples, COCOMO II,</p> <p>Unit 3- Activity Planning and Scheduling, Early Start, Late Start times, The Forward Pass, Identifying the Critical Path, PERT analysis to calculate the probability of schedule completion, Resourse alloaction , levelling and smoothing</p> <p>Unit 4- Monitoring and control-EVM</p> <p>Unit 5- Managing contracts and organisational behaviour</p> <p>Project Guide - Project Requirement Document</p>	60	63	3	Zoom Online-PPT/Sharing of E-Content, Video, Practical- Project Guide	https://classroom.google.com/j/2/w/MTE3MjAwOTc1OTQ2/tc/MTE3MzQ3MzQ0NDk1	65%	65%	Yes, Quiz link is posted after each lecture	75%	





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PG	<p>MSc IT - Part 1, Sem 1</p> <p>Unit 1- Digital Image, Sampling and Quantization, Steps in Digital Image processing, Basic Relationships Between Pixels, Distance measure – Euclidean, City – Block Distance, Chess Board Distance,</p> <p>Unit 2- Basic Intensity Transformations, Histogram Processing, Fundamentals of Spatial Filtering-Spatial Correlation and Convolution, Sharpening Spatial Filters</p> <p>Unit 3- Color Image Processing, HSI Model, Image Compression Fundamental -Data Redundancy & Compression ratio:Coding redundancy - Fixed length code, variable length coding</p> <p>Unit 4- Morphological Image Processing, Reflection and Translation operations, STRUCTURING ELEMENTS (SE), Erosion operation on images , Hit and Miss Transform</p> <p>Unit 5- Content Based Image Retrieval, Image Distance Measures - color similarity, Image Distance Measures - texture and shape Similarity, Algorithm for detecting interesting image points.</p> <p>Practical - GNU Octave</p>	60	66	6	<p>Google Meet/Online-PPT/Sharing of E-Content, Video link is given on Msc IT part 1 classroom, Practical- GNU Octave</p>	<p>Video link is given on Msc IT part 1 classroom link - https://classroom.google.com/u/0/w/MjlxNDkzNzAwMzI0/tc/MjA1MzEyNTk3ODE0</p>	80%	85%	Yes	67%
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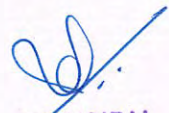
WORK PLAN FOR TEACHERS (SEMESTER - WISE) - Online Teaching II, IV and VI 2020-2021

Name of the Teacher: Punam
Sindhu

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	MODE OF TEACHING*	LINKS OF VIDEO AND AUDIO CLIP	ESTINMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDANCE	HOD Sign
FY	Sem II - Numerical and Statistical Methods- (Theory) - Unit 4 - Least Square regression, Linear programming Unit 5 - Probability distribution of random variables, Discrete distribution- uniform, poisson, binomial Numerical and Statistical Methods Practicals - Scilab tool	30	30		Zoom/ Online PPT/Sharing of E- Content on classroom		60%	65%	Yes, Quiz link is posted after each lecture	75%	
SY	SEM IV- Computer Oriented statistical methods (COST) Unit 1- The Mean, Median, Mode, and Other Measures of Central Tendency, The Standard Deviation and Other Measures of Dispersion, Introduction to R Unit 2 - Moments, Skewness, and Kurtosis, Elementary Probability Theory, Elementary Sampling Theory Unit 3 - Statistical Estimation Theory, Statistical Decision Theory, Statistics in R Unit 4 - Small Sampling Theory, The Chi-Square Test Unit 5- Curve Fitting and the Method of Least Squares, Correlation Theory COST Practical - R studio	60	62	2	Zoom/ Online PPT/Sharing of E- Content on classroom		50%	60%	Yes, Quiz link is posted after each lecture	75%	





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TY	Sem VI- Software Quality Assurance (SQA) Unit 1: Introduction to Quality, Software Quality Unit 2: Fundamentals of testing. Unit 3: Unit Testing: Boundary Value Testing, Equivalence Class Testing, Decision Table-Based Testing, Path Testing, Data Flow Testing. Unit 4: Software Verification and Validation, V-test Model Unit 5: Levels of Testing, Special Tests SQA Practical- Open source tools- Selenium IDE, Selenium Webdriver, AutoIT	60	60		Google Meet Online PPT/Sharing of E- Content on classroom	60%	70%	Yes, Quiz link is posted after each lecture	75%	
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WORK PLAN FOR TEACHERS (SEMESTER - WISE) I, III and V 2020-2021

Name of the Teacher:
Aditi Prajapati

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	LINKS OF VIDEO AND AUDIO CLIP	MODE OF TEACHING*	ESTINMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDENCE	HOD Sign
BSC IT FY	Operating Systems Unit I, II, III, IV, V and practicals Unit I :Introduction to Operating system, Processes and Threads Unit II:Memory Management, File Systems Unit III :Input-Output, Deadlocks Unit IV :Virtualization and Cloud, Multiple Processor Systems Unit V :Case Study on LINUX and ANDROID, Case Study on Windows	60	58	-		Online(Zoom)/ PPT/ Sharing of E-Content/Virtual Lab/ Termux/YouTu be Clips/ Quiz/ PPT	65%	70%	Yes	70%	
BSc IT SY	Data Structure - Unit I, II, III, IV and V Unit I :Introduction, Array Unit II:Linked List Unit III :Stack, Queue Unit IV :Sorting and Searching Techniques, Tree, Advanced Tree Structures Unit V :Hashing Techniques, Graph	40	40	6	https://classroom.google.com/c/MTTE3MjAwOTc1OTQ2/m/MTQzODU3Mjg4ODU3/details	Online(Zoom)/ PPT/ Sharing of E-Content/ YouTube Clips/ Quiz	65%	65%	Yes	80%	




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MSc IT Part I	Distributed Systems - Unit I, II, III, IV, V and practicals Unit I: Characterization of Distributed Systems Unit II: Processes Unit III: Synchronization, Consistency Unit IV: Replication, Fault Tolerance, Security Unit V: Distributed Object Based Systems, Distributed File Systems, Distributed Web-Based Systems Distributed Systems	60	60	5	https://classroom.google.com/u/2/w/MjlxNDkzNzAwMzI0tc/MjlyMjgzNjkwMzY3	Online(meet)/ PPT/ Sharing of E-Content/ YouTube Clips	60%	65%	Yes	75%
MSc IT Part II	Computer Hacking Forensics Investigation Unit I, II, III, IV and V Unit I: Computer forensics in today's world, Computer Forensics Investigation Process, Understanding hard disks and file systems. Unit II: Data acquisition and duplication, Defeating anti-forensics techniques, Operating system forensics. Unit III: Network forensics, Investigating web attacks, Database forensics. Unit IV: Cloud forensic, Malware forensics, Investigating email crimes. Unit V: Mobile forensic, Forensics report writing and presentation.	40	40	18	https://classroom.google.com/u/2/w/MTMzMzcwMjIxOTgytc/MTM3NTk3MTIwOTI5	Online(meet)/ PPT/ Sharing of E-Content/ YouTube Clips/ Quiz	65%	65%	Yes	65%

Quiz Format/ YouTube Clips/ Using

Between 40 %- 60 % -- Easy to



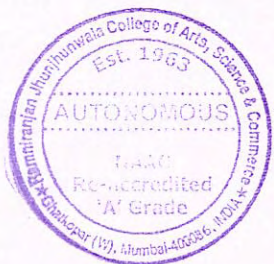

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WORK PLAN FOR TEACHERS (SEMESTER - WISE) II, IV and VI 2020-2021

Name of the Teacher: Aditi Prajapati

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	LINKS OF VIDEO AND AUDIO CLIP	MODE OF TEACHING*	ESTIMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDANCE	HOD Sign
MSc IT Part I	<p>Advanced Artificial Intelligence Unit I, II, III, IV, V and practicals</p> <p>Unit I: Introduction, Problems, Problem Spaces and Search, Heuristic Search Techniques</p> <p>Unit II: Knowledge Representation Issues, Using Predicate Logic, Representing Knowledge Using Rules</p> <p>Unit III: Symbolic Reasoning Under Uncertainty, Statistical Reasoning, Weak Slot-and-Filler Structures</p> <p>Unit IV: Strong Slot-and-Filler Structures, Knowledge Representation Summary, Game Playing</p> <p>Unit V: Planning, Understanding, Natural Language Processing, Parallel and Distributed AI, Robotic Process Automation</p>	60	49		https://classroom.google.com/w/MzE2NjgwNDcxNDkw/tc/Mjg5MDc3MzgwNzE1	Online(Zoom)/ PPT/ Sharing of E-Content/Virtual Lab/ YouTube Clips	50%	55%	Yes	70%	

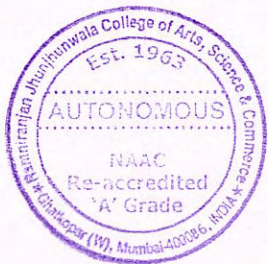


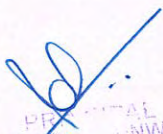

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MSc IT Part I	Virtualization Unit I, II, III, IV, V and practicals Unit I: Understanding Virtualization, Understanding Hypervisors, Understanding Virtual Machines. Unit II: Introducing VMware vSphere, Planning and Installing VMware ESXi, Installing and Configuring vCenter Server. Unit III: vSphere Update Manager and the vCenter Support Tools, Creating and Configuring Virtual Networks, Creating and Configuring Storage Devices. Unit IV: Ensuring High Availability and Business Continuity, Securing VMware vSphere, Creating and Managing Virtual Machines, Using Templates and vApps. Unit V: Managing Resource Allocation, Balancing Resource Utilization, Monitoring VMware vSphere Performance, Automating VMware vSphere.	60	51	-		Online(Zoom)/ PPT/ Sharing of E-Content/Virtual Lab/ YouTube Clips	50%	52%	Yes	70%
MSc IT Part II	Software Defined Network Unit I, II, III, IV, V and practicals Unit I: Networking Concepts Unit II: SDN Concepts Unit III: OpenFlow Unit IV: SDN architecture and Eco system Unit V: OpenFlow agents	60	50	-		Online(Zoom)/ PPT/ Sharing of E-Content/Virtual Lab/ YouTube Clips	70%	75%	Yes	65%

* = Chalk-N-Board/ OHP/ PPT/ Quiz

1,2 = 60% and Above -- Difficult, Between




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Pimpri Chinchwad Education Trust
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of Arts, Science & Commerce (Autonomous)
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WORK PLAN FOR TEACHERS (SEMESTER - WISE) I, III, V & PG 2020-2021

Name of the Teacher: Mrs. Priyasha V. Sawant

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	LINKS OF VIDEO AND AUDIO CLIP	MODE OF TEACHING*	ESTINMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDENCE	HOD Sign
FY	Sem I - Imperative Programming Unit I :Introduction, Fundamentals of Programming language Unit II:Operators and Expressions, Data Input and Output Unit III :Conditional Statements and Loops, Functions Unit IV :Program structure, Preprocessor, Arrays Unit V :Pointers, Structures and Unions and Practicals	60	62	2		Zoom/google meet/Quiz Format/Sharing of E-Content/Youtub e links	80%	85%	YES	70%	
SY	Sem III - Computer Networks Unit I: Introduction, Network Models, Introduction to Physical layer, Digital and Analog transmission Unit II: Bandwidth Utilization: Multiplexing and Spectrum Spreading, Transmission media, Switching, Introduction to the Data Link Layer Unit III: Data Link Control, Media Access Control, Wireless LANs, Connecting devices Unit IV: Introduction to the Network Layer, Unicast Routing, Next generation IP Unit V: Introduction to the Transport Layer, Standard Client Server Protocols and Practicals	60	64	4		Zoom/google meet/Quiz Format/Sharing of E-Content/Youtub e links	80%	75%	YES	75%	
TY	Sem V : Adv Web Programming Unit I :Introduction to .NET and C# language, Types, Objects, and Namespaces Unit II:Web forms Fundamentals, Form Controls Unit III :Error Handling, Logging, and Tracing, State Management, Styles, Themes, and Master Pages Unit IV :ADO.Net Fundamentals, Data Binding, The Data Controls Unit V :XML, Security Fundamentals, ASP.NET AJAX and Practicals	60	60	-----		Zoom/google meet/ Quiz Format/Sharing of E-Content/Youtub e Links	60%	55%	Yes	68%	



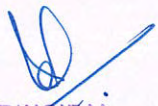

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PG	Sem 2: Wireless Sensor Networks Unit I: Sensor networks overview, Basic Wireless Sensor Technology, Wireless Transmission Technology and Systems Unit II: Fundamentals of MAC Protocols, Routing Protocols for Wireless Sensor Networks Unit III: Transport Control Protocols for Wireless Sensor Networks Unit IV: Middleware for Wireless Sensor Networks Unit V: Performance and Traffic Management, Operating Systems for Wireless Sensor Networks	60	44	-----	https://classroom.google.com/w/MzE2NjgxMTU2NjUx/t/all						
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WORK PLAN FOR TEACHERS (SEMESTER - WISE) II, IV and VI 2020-2021

Name of the Teacher: Mrs. Priyasha V. Sawant

Department: Information Technology

CLASS	UNIT/ TOPIC	ALLOTTED LECTURES	LECTURES CONDUCTED	EXTRA LECT	LINKS OF VIDEO AND AUDIO CLIP	MODE OF TEACHING*	ESTINMATED DEGREE OF DIFFICULTY(1) IN LEARNING	OBSERVED DEGREE OF DIFFICULTY(2) IN LEARNING	PRACTICE TEST GIVEN / NOT GIVEN	% STUDENT ATTENDENCE	HOD Sign
FY	Sem II- Green Computing Unit I :Overview and Issues, Initiatives and Standards Unit II:Minimizing Power Usage, Cooling Unit III :Changing the Way of Work, Going Paperless Unit IV :Recycling, Hardware Considerations Unit V :Greening Your Information Systems, Staying Green and Case studies PPT	60	55	----		Zoom/google meet/ Quiz Format/Sharing of E-Content	40 %	35 %	Yes	65%	
SY	Sem IV - Computer Graphics Unit I :Introduction to Computer Graphics, Scan conversion Unit II : Two-Dimensional Transformations, Three-Dimensional Transformations Unit III :Viewing in 3D, Light, Color Models and Color Applications Unit IV :Visible-Surface Determination, Plane Curves and Surfaces Unit V :Computer Animation, Image Manipulation and Storage and Practicals	60	60	----		Zoom/google meet/ Quiz Format/Sharing of E-Content	85%	90%	YES	75%	

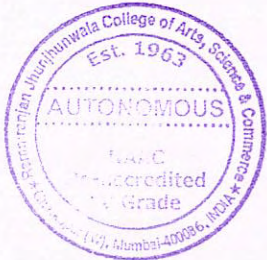




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TY	Sem VI- IT Service Management Unit I :IT Service Management, Service Strategy Principles, Service Strategy, Challenges, Critical Success factors and risks Unit II:Service Design, Service Design Principles, Service Design Processes, Challenges, Critical Success factors and risks Unit III :Service Transition, Service Transition Principles, Service Transition Processes, Challenges, Critical Success factors and risks Unit IV :Service Operation, Service Operation Principles, Service Operation Processes, Challenges, Critical Success factors and risks Unit V :Continual Service Improvement(CSI) Principles, CSI Process, CSI Methods and Techniques, Organising for CSI, Technology considerations, Implementing CSI	40	40	-----		Zoom/google meet/ Quiz Format/Sharing of E-Content	60%	60%	Yes	70%	
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