Teaching Plan: 2018 - 19

Department: I.T. Class: S.Y.B.Sc.(I.T.) Semester: IV

Subject: Core Java

Name of the Faculty: Snehal S. Borlikar

Month	Topics to be Covered	Internal Assessment	Number of Lectures
November	Unit 1: Introduction ,Data types		10
December	Unit 2:Control Flow Statements, Iterations, Classes		10
January	Unit 3: Inheritance, Packages Unit 4: Enumerations, Arrays, Exceptions		30
February	Unit 4: Multithreading, Byte streams Unit 5: Event Handling ,Abstract Window Toolkit	Internal test	20
March	Unit 5:Abstract Window Toolkit ,Layouts		20

Teaching Plan: 2018 - 19

Department: I.T. Class: S.Y.B.Sc.(I.T.) Semester: IV

Subject: Introduction to Embedded Systems

Name of the Faculty: Amit Bane

Month	Topics to be Covered	Internal	Number of
		Assessment	Lectures
November	Introduction: Embedded Systems and general purpose computer systems, history, classifications, applications and purpose of embedded systems 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. Characteristics and quality attributes	Assessment	12
	of embedded systems:		
	Characteristics, operational and non- operational quality attributes.		
December	Embedded Systems – Application and Domain Specific: Application specific – washing machine, domain specific - automotive. 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. Peripherals: Control and Status Registers, Device Driver, Timer Driver - Watchdog Timers.		12
January	The 8051 Microcontrollers: Microcontrollers and Embedded processors, Overview of 8051 family. 8051 Microcontroller hardware,		12

	Input/output pipe, Borte, and Circuite		
	Input/output pins, Ports, and Circuits,		
	External Memory.		
	8051 Programming in C:		
	Data Types and time delay in 8051 C,		
	I/O Programming, Logic		
	operations, Data conversion Programs		
	Designing Embedded System with	Internal test (20)	12
February	8051 Microcontroller: Factors to		
	be considered in selecting a controller,		
	why 8051 Microcontroller,		
	Designing with 8051.		
	Programming embedded systems:		
	structure of embedded program,		
	infinite loop, compiling, linking and		
	debugging.		
March	Real Time Operating System (RTOS):		12
	Operating system basics,		
	types of operating systems, Real-Time		
	Characteristics, Selection		
	Process of an RTOS.		
	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.		

Sign of Faculty

Teaching Plan: 2018 - 19

Department: I.T. Class: S.Y.B.Sc.(I.T.) Semester: IV

Subject: COST

Name of the Faculty:Neha Joshi

Month	Topics to be Covered	Internal Assessment	Number of Lectures
November	Measures of central tendency	Assessment	5
December	Measures of Dispersion Curve fitting and method of least squares Probability theory		15
January	Correlation theory Moments Skewness Kurtosis Sampling theory		15
February	Estimation theory Decision theory	Class test	10
March	Small sampling theory Chi square test		10

Sign of Faculty

P.T.V.A.'s

M.L.Dahanukar College of Commerce

Teaching Plan: 2018 – 19

Department: Information Technology

Class: S.Y.B.Sc.(I.T.) – Semester IV Subject: Software Engineering Name of the Faculty: Prof. Supritha Bhandary

Month	Topics to be Covered	Internal	Number of
		Assessment	Lectures
DEC	Introduction, Difference between hardware and software, SDLC, software requirements, software processes, waterfall model,		08
	prototyping model, iterative model.		
JAN	RUP,RADmodel,AgilesoftwaredevelopmentSocio-TechnicalSystem:Characteristics,legacysystems,criticalsystems,securityofsoftwaresystems,Requirementsengineeringprocesses,feasibilitystudy,systemsmodels,contextmodel,behaviouralmodel,datamodel,object		19
FEB	Architectural design: modular decomposition styles, control styles, User Interface design: need of UI, Design issues, user analysis, Project Management: project planning, project scheduling, Quality Management: quality planning, quality control, software measurement and metrics, Verification and validation	Class Test	15
MAR	software inspections, formal methods, Software Testing: system testing, component testing, Software Measurement: Function point metrics, Software Cost Estimation: Estimation Techniques, project duration and staffing, Process improvement, software reuse, distributed software engineering		18

Sign of Faculty

Teaching Plan: 2018 - 19

Department: I.T. Class: S.Y.B.Sc. (I.T.) Semester: IV

Subject: Computer Graphics and Animation

Name of the Faculty: Sweta Chheda

Month	Topics to be Covered	Internal	Number of
		Assessment	Lectures
	Unit 1 - Chap 1 - Introduction to		08
November	Computer Graphics (half) + Practicals		
	Unit 1 - Chap 1 - (complete)		10
December	Unit 1 - Chap 2 - Scan Conversion		
	+ Practicals		
	Unit 2 - Chap 3 - Two Dimensional		24
January	Transformation		
	Unit 5 -Chap 10 - Computer Animation		
	Unit 5 - Chap 11 - Image Manipulation		
	and Storage + Practicals		
-	Unit 2 - Chap 4 - Three Dimensional	Internal test	20
February	Transformations.		
	Unit 3 - Chap 5 - Viewing in 3D		
	Unit 4 - Chap 8 - Visible Surface		
	Determination		
	Unit 4 - Chap 9 - Plane Curves and		
	Surfaces + Practicals		
March	Unit 3 - Chap 6 - Light		8 (tentative)
	Unit 3 - Chap 7 - Color		
	Project and Revision		

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