Suggested link of video lectures for Diploma (Computer Science) Students

Subject Name :WebTechnology
Subject Code CS 501

Unit No.	Topic	Details	Video URL Link
1	**Introduction To Web Design**	Web page and Web site - Web publishing Process of Web, publishing, planning, organizing, Hierarchical, Linear, Webbed. Implementing, Testing, Maintenance.	https://www.youtube.com/watch?v=GlOErNspCqI&t=5s
2	**HTML**	Introduction	https://www.youtube.com/watch?v=i2SnHnN_2DU
		Head section – Prologue, Link, Base, Meta, Script, Style	https://www.youtube.com/watch?v=pWV0zkwmJ24
		Body Section – Header, Paragraphs, Text Formatting, Linking, Internal Linking, Embedding Images, Lists, Tables, Frames. Other Special Tags and Characters	https://www.youtube.com/watch?v=r2ZdXfgVQpM https://www.youtube.com/watch?v=h37pIZauOaU
		HTML Forms	https://www.youtube.com/watch?v=n032gYeHTPM
3	**Java Script**	Introduction	https://www.youtube.com/watch?v=uGRZ2CzkFUo
		Language Elements – Identifiers, Expressions, Keywords, Operators, Statements, Functions	https://www.youtube.com/watch?v=16QWkAo1o3A
		Object of Java Scripts – Window Object, Document Object, Forms Objects, Text Boxes and Text Areas, Buttons, Radio Buttons and Check Boxes, The Select Object	https://www.youtube.com/watch?v=qc_rJbZOTcA
		Other Object – The Date Object, The Math Object, The String Object, Regular Expressions, Arrays, Worked Examples	https://www.youtube.com/watch?v=1ZRpey-0kHg
		Introduction	https://www.youtube.com/watch?v=yTlA0mpG37M

4	**DHTML**	Cascading Style Sheet (CSS) – Coding, Properties of Text, Property Values, Other Style Values, In-Line Style Sheet, Embedded Style Sheet, External Style Sheet, Grouping, Inheritance, Classes as Selector, ID as Selector, Contextual Selector, Pseudo Classes and Pseudo Elements, Positioning, Backgrounds, Element Dimensions	https://www.youtube.com/watch?v=hkQv0NIxKQY
		DHTML Document Object Model and Collections – Using the Collection *all,*	https://www.youtube.com/watch?v=5E-QI35ojh8
		Moving object around the documents	https://www.youtube.com/watch?v=8OFqe1ri-vo
		Event Handling – Assigning Event Handlers, Even Bubbling	https://youtu.be/iafddlPYJDQ
		Filters and Transactions	https://www.youtube.com/watch?v=dQqOmTuCvy
		Data Bindings – Using Tabular Data Control, Sorting Data, Dynamic Sorting, Filtering	https://www.youtube.com/watch?v=vyIX04ux9vY
5	**XML Basics**	Introduction	https://www.youtube.com/watch?v=k9owEd7es10
		• HTML vs XML	https://www.youtube.com/watch?v=OwhfPPSnvh4
		• Syntax of the XML Document	https://www.youtube.com/watch?v=8dfgf4HfW7c
		• XML Attributes	https://www.youtube.com/watch?v=VZ-hWnNt5ks
6	**Publishing the Site**	• Uploading Web pages - Using FTP and using Web Page Editors	https://www.youtube.com/watch?v=oJV_9W9uwts
		• Web hosting - Shared hosting Running a Local Web server	https://www.youtube.com/watch?v=ITe8OsJRgeM

Suggested link of video lectures for Diploma (Computer Science) Students

Subject Name :Java Programming
Subject Code CS 502

Unit no.	Topic	Course Content	Video URL Link
1	**OVERVIEW OF JAVA LANGUAGE**	JAVA and its support systems, JAVA environment.	https://youtu.be/eKRM-053ei4
		JAVA program structure, Tokens, Statements, JAVA virtual machine, C++	https://www.youtube.com/watch?v=B-_0mW2hAcE
		Labeled Loops.	https://www.youtube.com/watch?v=izwzvDrKJ_A
2	**CLASSES, OBJECTS & METHODS**	Defining a Class, Adding Variables & Methods, Creating Objects, Accessing	https://youtu.be/eKRM-053ei4
		Inheritance: Extending a Class, Overriding Methods, Concept of public, private and protected, Final Variables & Methods, Final Classes, Finalizer Methods, Abstract methods & Classes, Static class, Visibility control	https://www.youtube.com/watch?v=_9R_in_7cT4&list=PL0wXpxSD7pqW6s3fW949Sw4eUab-yrZfQ https://www.youtube.com/watch?v=RASt7XCJX7g https://www.youtube.com/watch?v=t0Za6e-P9ro https://www.youtube.com/watch?v=frOMAW-Ynvg
3	**ARRAYS, STRINGS & VECTORS**	Arrays : One Dimensional & two Dimensional, strings, Vectors, wrapper Classes, Defining Interfaces, Extending Interfaces, Implementing Interfaces, Accessing Interfaces Variables, Systems Packages, Using System Packages, Naming Conventions, Creating Packages, Accessing a Package,	https://youtu.be/eKRM-053ei4 https://www.youtube.com/watch?v=Q0NVRQP1Z5g
		Using Package, Adding a Class to a Package, Hiding Classes.	https://www.youtube.com/watch?v=MvGI58hFTts
4	**MULTITHREADED PROGRAMMING**	Creating Threads, Extending the Threads Class, Stopping & Blocking a Thread, Life	https://youtu.be/eKRM-053ei4
		,Threads Exceptions, Thread Priority, Synchronization, Implementing the	https://www.youtube.com/watch?v=4CJ2sjka8Uw https://www.youtube.com/watch?v=x-fp3DZRZGA
		Runnable Interface.	https://www.youtube.com/watch?v=hTEiwIQgILE

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5	**APPLET PROGRAMMING**	Local & Remote Applets, Applets Vs Applications, Writing Applets, Applets Life Cycle, Creating an Executable Applet, Designing a Web Page, Applet Tag, Adding Applet to HTML File, Running the Applet, Passing Parameters to Applets, Aligning the Display, HTML Tags & Applets, Getting Input from the	https://www.youtube.com/watch?v=hv3vYUmaZP4 https://www.youtube.com/watch?v=VLeJJ110R04 https://www.youtube.com/watch?v=zrgwnT71awg&list=PLbGui_ZYuhignGrO7DPr3kpZZ91yw4IEk
6	**JDBC**	Understanding JDBC, JDBC Architecture, types of JDBC driver, Register JDBC	https://www.youtube.com/watch?v=KEXJ7ZXSZww&list=PLnfapp4Woqpp9m-lrwkkgtWPgf9yMMPwd
		result, close the data base connection.	https://www.youtube.com/watch?v=czIdi658JH0
7	**File handling and simple GUI Design**	Introduction, Data records, reading and writing to text files, simple GUI design	https://www.youtube.com/watch?v=Qb5PEmE0eEg
		reading data from the user, confirmation dialog - getting confirmation from user.	https://www.youtube.com/watch?v=hn4Jxblkl5M

Suggested link of video lectures for Diploma (Computer Science) Students

Subject Name :Hardware Installation & Maintenance
Subject Code CS 503

Unit No.	Topic	Course Contents	Video URL Link
1	PC FUNDAMENTALS	Elements of Computers	https://www.youtube.com/watch?v=bj1m786895g&list=PLc5tmHi5vIeVYCx-CDVH_Ya64TclPtPyU CS V sem.xlsx
		Processors Specifications	
		SMPS	https://youtu.be/Vf3LnLNl_eo
		Types of data cables and power cables	https://www.youtube.com/watch?v=VP8Z1p5W9Ro
		Types of connectors, headers I/O Ports:- Serial, Parallel	https://www.youtube.com/watch?v=6CXGRbauJl8
		USB	https://www.youtube.com/watch?v=KAEYfO5A7II
		Chipset, Video system, sound system, Drive system, MODEM, USB Printers	
2	MOTHERBOARD	Motherboard Controllers & System Resources, Memory Mapping	https://www.youtube.com/watch?v=Y4UBGVxwMt0 https://www.youtube.com/watch?v=PZ4W4gAWQVY
		Interrupts Request Line (IRQ) - Purpose, Standard Assignments, Conflicts, Sharing & ISA, PCI, PnP Configuration of IRQ	https://www.youtube.com/watch?v=aPKXmGkRxQ8
		System Buses - Industry Standard Organization, Micro Channel Architecture, Enhanced Industry Standard Architecture, UESA Local Bus, Peripheral Component Interconnect, Accelerated Graphics Ports, PCI-X	https://www.youtube.com/watch?v=xBYhHC8_A6o https://www.youtube.com/watch?v=8zOl8ULz_Ms
		Chipsets - Northbridge & South Bridge, Function of Chipset	https://www.youtube.com/watch?v=3wxvU-vB-9U

Suggested link of video lectures for Diploma (Computer Science) Students

		Motherboard form factor & Power supplies - AT, ATX, LPX & NLX, Voltage & Signal Lines, Power Supply Quality & Specifications, Form Factors, Ribbon Cable and Adopter Card Installation	https://www.youtube.com/watch?v=kQ1FgGidoic
		Batteries - charging, rating, CMOS backup Batteries, Backup Battery replacement	https://www.youtube.com/watch?v=EKYVO6mNuV0
3	MICROPROCESSOR	Processor Specification - Clock Speed, FSB, L1, L2 & L3 cache, Processor over clocking	https://www.youtube.com/watch?v=yXg1jGBzhl4&list=PL0s3O6GgLL5cN1svnyKJrGovdK2mkLZXE
		CPU - RISC & CISC Microprocessor	https://www.youtube.com/watch?v=dRCAafAhBIg
		CPU Packaging - DIP, PGA, SPGA, MCM, LCC, PLCC & Tape Carrier Package.	https://www.youtube.com/watch?v=fL-D192x0jI
		Intel CPU Family - Fifth generation & Sixth Generation P6, Xeon, Celeron Processor	https://www.youtube.com/watch?v=HVwcNplIToE
		AMD CPU Family - Fifth, Sixth, & Seventh Generation K Series, Athlon, Thunderbid & Duron Processor	https://www.youtube.com/watch?v=69K35vJ5SGY
		Handling & Replacement of CPU, CPU Configuration FSB, Core Speed, Core Voltage Configuration	https://www.youtube.com/watch?v=5ZNtUpZDN6c
4	MEMORY	Logical Organization of Memory - Real Mode, Protected Mode, Lower, BIOS Data Area, Upper Memory, High Memory Area, Frame Buffer, Shadow & Cache	https://www.youtube.com/watch?v=8YXIpJJfADs https://www.youtube.com/watch?v=C0nu4GYviDI
		Memory Packaging - DTPP, STPP, SIMM, DIMM, RIMM	https://www.youtube.com/watch?v=C0nu4GYviDI
		RAM Types - EDO, SDRAM, VRAM, SGRM, RDRAM, DDRAM, PPRAM, DDR 1, DDR 2, DDR 3	https://www.youtube.com/watch?v=cITvHRY-9Eg
		Memory Performance - Speed, Inter living & Caching	https://www.youtube.com/watch?v=Zr8WKIOIKsk

Suggested link of video lectures for Diploma (Computer Science) Students

		Interfaces - IDE, ATA 1 to 6, Mater Slave Configuration, SCSI, SATA, PATA.	https://www.youtube.com/watch?v=eNhJ0354Ezo
		SCSI Interface - BUS ID, Logical Unit Number, Termination, Signaling Types, SCSI Standards, Comparison between IDE & SCSI	https://www.youtube.com/watch?v=7seI3ciIXS8
		Optical Storage Devices - CD, DVD, and Blu-ray Disc	
5	**BIOS**	BIOS Functions	https://youtu.be/vcyP0PjTY9c
		Cold & Warm Booting	https://www.youtube.com/watch?v=QpF9heqHL2Q
		BIOS Error Codes	https://www.youtube.com/watch?v=NqQgO3-sjws
		BIOS Interrupts	
		Identification of Different BIOS (AMI & AWARD BIOS)	https://www.youtube.com/watch?v=FOP0WgDAxno
		BIOS Memory Assignments,	https://www.youtube.com/watch?v=s8DoUGfSkF4
		BIOS Advance setup	https://www.youtube.com/watch?v=MswK8X7srP0
6	**ASSEMBLING THE COMPUTER**	PC Case/Cabinet Preparation, Mounting process of the Motherboard, CPU Installation , Attaching Heat sink and Cooling Fan, RAM installation, Connecting SMPS to different devices, Connecting Hard-drive and its cables, Installation of optical drives, video card, sound cards, PCI cards and Expansion cards	https://www.youtube.com/watch?v=5qvVtB7fqXE
		Error Codes- Beep Codes, Post Codes	https://www.youtube.com/watch?v=5Zvmy8bO_Og&li

| 7 | **MAINTENANCE OF COMPUTER** | Windows System Tools – Back Up, Disk Clean Up, Disk Defragmenter, Files and Settings Transfer Wizard, Scheduled Tasks, Security Center, System Information, System Restore | https://www.youtube.com/watch?v=5Zvmy8bO_Og&list=PLRaAr7ZJmXeCLf0t33s3P2xRlqfpYB3U0 |
| | | Antivirus and Other Complete Security Tools | https://www.youtube.com/watch?v=jRtpJaxcoYc |

Suggested link of video lectures for Diploma (Computer Science) Students

Subject Name :Software Engineering
Subject Code CS 503

Unit no.	Topic	Course Content	Video URL Link
1	**INTRODUCTION TO SOFTWARE ENGINEERING**	Software characteristics, Software myths. Components, application; process,	https://www.youtube.com/watch?v=tZreaH_FyMs&list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm
		methods, tools & view of S/E; software process Capability Maturity Model, life cycle models (water fall, incremental, spiral, RAD, prototyping, object oriented)	https://youtu.be/hmSKM4RDx5s https://www.youtube.com/watch?v=VDTpdDUA-6o
		fourth generation model.	https://www.youtube.com/watch?v=_Q5RWV8Cniw
2	**SOFTWARE PROJECT PLANNING**	Responsibilities of Software Project manager, Project planning Objective,	https://www.youtube.com/watch?v=tZreaH_FyMs&list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm
		Software scope, Software project estimation technique, Decomposition techniques, Estimation models, Scheduling, staffing, Risk Management,	https://www.youtube.com/watch?v=TRHx9P_9NRA
		Software configuration Management	https://www.youtube.com/watch?v=ce73O3pkgbU
3	**SOFTWARE REQUIREMENT ANALYSIS, SPECIFICATION & MODELING**	Analysis principles, system specification, software requirement specifications,	https://www.youtube.com/watch?v=A8qEg1rokV8 https://www.youtube.com/watch?v=tZreaH_FyMs&list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm
		functional specifications, software prototyping, specification, data modeling, data	https://www.youtube.com/watch?v=Yzuj6w-ClAs&list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm&index=9
		flow diagrams, ER Diagram, Mechanics of structured analysis, data dictionary.	https://www.youtube.com/watch?v=x5hE1sc5nfQ&list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm&index=29
4	**OBJECT –ORIENTED**	Object Oriented Concepts, Unified Modeling language Diagram(Use Case	https://www.youtube.com/watch?v=fh1ThdkO0Vs

	CONCEPT	Diagram, Class Diagram, Sequence Diagram, State Chart Diagram)Elements Of	https://www.youtube.com/watch?v=q0DKozzXveU
		Object Modeling, Management Of Object Oriented Software Projects, Object	https://www.youtube.com/watch?v=Q3H9UG6Et7M
		Oriented Analysis, Domain Analysis, OOA Process Conventional v/s OO Approach, Object –Relationship Model	https://www.youtube.com/watch?v=34fbmUiKy58
5	**DESIGN CONCEPT PRINCIPLE AND METHODS**	Design Process, Design Principles, Design Concepts, Effective Modular Design,	https://www.youtube.com/watch?v=Fv6i4ja2O6w
		Design Documentation, Architectural Design, and Architectural Design Process	https://www.youtube.com/watch?v=kerqiiJZcm0
		- Optimization, Procedural Design.	
		Software Testing Fundamentals: Principles & objectives, V model.	https://youtu.be/SUmxnJA8ZHA?list=PLUjQ3tZwzZPEKqtx__lADj7NncqxLSC4v

6	**SOFTWARE TESTING**	*Testing Methodology:* Unit Test, Integration Test, Functional testing, System Testing, Acceptance test, White Box & Black Box testing techniques Gray box testing, Retesting and Regression testing, Debugging & reliability Analysis.	https://www.youtube.com/watch?v=O7j3tBXO23M&list=PLUjQ3tZwzZPEKqtx__lADj7NncqxLSC4v&index=6 https://www.youtube.com/watch?v=hECs8372M8A&list=PLUjQ3tZwzZPEKqtx__lADj7NncqxLSC4v&index=7 https://www.youtube.com/watch?v=qxitgylm1EU&list=PLUjQ3tZwzZPEKqtx__lADj7NncqxLSC4v&index=8 https://www.youtube.com/watch?v=i1F8LoPYmpc&list=PLUjQ3tZwzZPEKqtx__lADj7NncqxLSC4v&index=9 https://www.youtube.com/watch?v=pVJ7wM8hiss&list=PLUjQ3tZwzZPEKqtx__lADj7NncqxLSC4v&index=10 https://www.youtube.com/watch?v=HW_tnUnUav8&list=PLUjQ3tZwzZPEKqtx__lADj7NncqxLSC4v&index=11
		Testing Documentation: Test Requirement, Test Plan, Test case design and execution(Study of manual testing tool : Quality center)	
		Software Reliability And Quality Management: Concepts of S/W Quality Control	https://www.youtube.com/watch?v=6_L6HNeDRCU
		and Assurance, Software Reliability, ISO 9000 & 9001, Standard SEI –CMM	
7	**SOFTWARE IMPLEMENTATION AND MAINTAINANCE**	Characteristics, reverse engineering, maintenance process model, estimation of maintenance cost	https://www.youtube.com/watch?v=tZreaH_FyMs&list=PLV8vIYTIdSnat3WCO9jfehtZyjnxb74wm https://www.youtube.com/watch?v=YYy1so-VByE

Suggested link of video lectures for Diploma (Computer Science) Students

Subject Name :Wireless engg & Web technology
Subject Code CS 511

Unit No.	Topic	Course Content	Video URL Link
1	Introduction to wireless technology	Comparison of wired and wireless mechanism,	https://www.youtube.com/watch?v=SsDehR3kCGs
		Basic equipments in wireless communication: Wireless access point, Wireless access cards,	https://www.youtube.com/watch?v=oCyn85dyUIY
		Various types of wireless communication technologies used in Mobiles, Antennas etc.	https://www.youtube.com/watch?v=SsDehR3kCGs&t=3s
		Concept of spread spectrum, various types of spread spectrum	https://www.youtube.com/watch?v=2645jY7qQSY
		Spreading sequences.	https://www.youtube.com/watch?v=2645jY7qQSY
2	Wireless LAN	Wireless local loops	https://www.youtube.com/watch?v=QYWVKKSieU4
		Wireless access protocols	https://www.youtube.com/watch?v=zMJMx1pI9H4
		Various types of wireless LAN technologies like infrared, microwave LANs etc.	https://www.youtube.com/watch?v=QYWVKKSieU4
		IEEE 802.11x standards for wireless LANs	https://www.youtube.com/watch?v=iFOpruGrs3o
3	Cellular system infrastructure	3.1 Cell fundamentals: Cell site, cell capacity, frequency reuse clustering, co channel	https://www.youtube.com/watch?v=oKg47n3zIe4&list=PL4P_XuK_iPG2GI70g7QDkIAMWEIWUpxnp
		3.2.Mobile station(MS),Base transceiver station (BTS),Mobile switching center(MSC),Functions of	https://www.youtube.com/watch?v=RxWYmmuZiUM
		3.3 Mobile station(MS) registration	https://www.youtube.com/watch?v=ozag8m0WWWY
4	GSM Technology	GSM network architecture	https://www.youtube.com/watch?v=PlJFUNcrZ7chttps://www.youtube.com/watch?v=oBiGDhnRl8M
		GSM channel concepts: logical channels, Broadcast channel, Common control channel &	https://www.youtube.com/watch?v=rtbdqhn7Lio
		GSM identities: Mobile station associated numbers, Network Numbering plans, mobile	https://www.youtube.com/watch?v=bur9hq_abog

		GSM system operation: GSM call setup phase, GSM call confirmation and call accepted ,GSM	https://www.youtube.com/watch?v=lVzSFMeKvvc
		Overview of CDMA technology	https://www.youtube.com/watch?v=n9-VQvIFvFc
5	**Reflection & Propagation models**	Mobile radio propagation	https://www.youtube.com/watch?v=XU0yW8MyJkg https://www.youtube.com/watch?v=Kgypk5cLNI8&list=PLtE
		Ground reflection model	https://www.youtube.com/watch?v=Zhmj2j1vKqs
		Diffraction sculpturing	https://www.youtube.com/watch?v=3z0nWghQvlI
		Indoor propagation models	https://www.youtube.com/watch?v=-_aeF8h7kiQ
		Outdoor propagation models	https://www.youtube.com/watch?v=GqploKEmD3w
		Ray tracing	https://www.youtube.com/watch?v=juWpuh23ch8
6	**Evolution and Deployment of cellular system**	Short Message Services (SMS), Enhanced Message services(EMS), Multimedia Message	https://www.youtube.com/watch?v=XYs_osmAGI4
		1G cellular Systems	
		2G cellular Systems	
		2.5G cellular Systems	https://www.youtube.com/watch?v=iRpJaMKB24U
		3G cellular Systems	
		4G cellular Systems	
		Emerging wireless technologies	https://www.youtube.com/watch?v=ijz-QGimrnk