

## Suggested link of Video lectures for Diploma (Information Technology ) Students

**Subject Name :AI & Expert System**

**Subject Code :IT 622**

S. No.	Course Content	Video URL Link
1	<b>INTRODUCTION TO AI</b>	<a href="https://www.youtube.com/watch?v=J7LqggIEfQw&amp;list=PL9zFgBale5fug7z_YID9M0x8gdZ7ziXen">https://www.youtube.com/watch?v=J7LqggIEfQw&amp;list=PL9zFgBale5fug7z_YID9M0x8gdZ7ziXen</a>
	Meaning and definition of Artificial Intelligence	
	Characteristics of AI Problems Scope and Future Expectation of AI Application of AI	
2	<b>PROBLEM SOLVING AND CONTROL STRATEGIES</b>	<a href="https://www.youtube.com/watch?v=J7LqggIEfQw&amp;list=PL9zFgBale5fug7z_YID9M0x8gdZ7ziXen">https://www.youtube.com/watch?v=J7LqggIEfQw&amp;list=PL9zFgBale5fug7z_YID9M0x8gdZ7ziXen</a>
	State Space Representation Problem	
	Characteristics Production System and its type Characteristics of Production System Breadth First Search and Depth First Search Forward and Backward Chaining	
	Control Strategies and its Type	
3	<b>HEURISTIC SEARCH TECHNIQUES</b>	<a href="https://www.youtube.com/watch?v=Xm7lqyYHPj8">https://www.youtube.com/watch?v=Xm7lqyYHPj8</a>
	• Hill Climbing	
	• Branch and Bound Technique	
	• Best First Search Technique and algorithm	
	• A* Algorithm and AO* Algorithm • Constraints Satisfaction and related numeric problems	
4	<b>KNOWLEDGE REPRESENTATION</b>	<a href="https://www.youtube.com/watch?v=japhjrVxJdg">https://www.youtube.com/watch?v=japhjrVxJdg</a>
	Representation and Mapping	
	Approaches to Knowledge Representation Issues in Knowledge Representation	
	Knowledge Representation using Predicate Logic and Propositional Logic Resolution and Refutation	
	Deduction, Theorem Proving	
	Procedural Knowledge and Declarative Knowledge	
	Introduction to Reasoning Various types of Reasoning methods like Forward, Backward, monotonic, non-monotonic, probabilistic, Baye's Theorem, Bayesian Network Semantic Networks, Frames Conceptual Dependency, Scripts	
5	<b>LEARNING AND NATURAL LANGUAGE PROCESSING</b>	<a href="https://www.youtube.com/watch?v=9iN3O_oL2e">https://www.youtube.com/watch?v=9iN3O_oL2e</a>
	Introduction to Learning Types of Learning	
	Learning in neural network	
	Learning Processes :- Error Correction Learning, Memory based Learning, Hebbian Learning, Competitive Learning	

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	Learning with teacher, Learning without teacher Introduction to NLP and its different Phases Parsing Techniques, Context Free Grammar	
	Recursive Transition nets (RTN), Augmented Transition nets (ATN) CSE and Logic Grammars, Semantic Analysis	
6	<b>GAME PLAYING</b>	<a href="https://www.youtube.com/watch?v=-dFh...">https://www.youtube.com/watch?v=-dFh...</a>
	Introduction to Game Playing Mini max Search Procedure Alpha-Beta Cut offs	<a href="https://www.youtube.com/watch?v=9iN3O_oL2ac">https://www.youtube.com/watch?v=9iN3O_oL2ac</a>
7	<b>EXPERT SYSTEM</b>	<a href="https://www.youtube.com/watch?v=JvGx...">https://www.youtube.com/watch?v=JvGx...</a>
	Definition and Characteristics of Expert System Rule Based System Architecture	<a href="https://www.youtube.com/watch?v=ccivrsjMsXw">https://www.youtube.com/watch?v=ccivrsjMsXw</a>
	Non- Production System Architecture Knowledge Acquisition and Validation	<a href="https://www.youtube.com/watch?v=y2HQmvqXON4">https://www.youtube.com/watch?v=y2HQmvqXON4</a>
	Expert System Life Cycle and Expert System Tools	<a href="https://www.youtube.com/watch?v=ol8ApH82s6s">https://www.youtube.com/watch?v=ol8ApH82s6s</a>
	MYCIN and DENDRAL examples of Expert System	<a href="https://www.youtube.com/watch?v=lpBZ01g0pGE">https://www.youtube.com/watch?v=lpBZ01g0pGE</a>
		<a href="https://www.youtube.com/watch?v=4dwsSz_fNSQ">https://www.youtube.com/watch?v=4dwsSz_fNSQ</a>
		<a href="https://www.youtube.com/watch?v=nhMJX61oF9g">https://www.youtube.com/watch?v=nhMJX61oF9g</a>
		<a href="https://www.youtube.com/watch?v=pHilwQk57dc">https://www.youtube.com/watch?v=pHilwQk57dc</a>
		<a href="https://www.youtube.com/watch?v=b4nbE-pG_TM">https://www.youtube.com/watch?v=b4nbE-pG_TM</a>
		<a href="https://www.youtube.com/watch?v=FFzdXJ49KAI">https://www.youtube.com/watch?v=FFzdXJ49KAI</a>
		<a href="https://www.youtube.com/watch?v=T3cOU_ljfr8">https://www.youtube.com/watch?v=T3cOU_ljfr8</a>

## Suggested link of Video lectures for Diploma (Information Technology ) Students

<b>Subject Name :Computer graphics &amp; Multimedia animation</b>
<b>Subject Code :IT 601</b>

S. No.	Course Content	Video URL Link
1	<b>Introduction to Computer Graphics</b>	<a href="https://youtu.be/228oQA2xAEs">https://youtu.be/228oQA2xAEs</a>
	o Definition of Computer Graphics	
	o Application of Computer Graphics	
	o Graphics Hardware	
	o Input and Output Devices	
	o Display Devices	
	o Refreshing Display Devices	
	Raster-Scan Random-Scan	
2	<b>Graphics Primitives:</b>	<a href="https://www.youtube.com/watch?v=k8r_Fo4Ot5A">https://www.youtube.com/watch?v=k8r_Fo4Ot5A</a>
	o Points and Lines	
	o Line-drawing Algorithms	
	§ DDA Algorithm	
	§ Bresenham's line Algorithm	
	o Circle-generating Algorithm	
	§ Midpoint Circle of Algorithm	
o Polygon Filling Algorithm: Scan-Line		
3	<b>Transformation, 2-D Viewing and Clipping</b>	<a href="https://www.youtube.com/watch?v=OhghEhzjx8s&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6Gk&amp;index=37&amp;t=0s">https://www.youtube.com/watch?v=OhghEhzjx8s&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6Gk&amp;index=37&amp;t=0s</a>
	• <b>Basic Transformations (2D and 3D)</b>	
	o Translation	
	o Rotation	
	o Scaling	
	o Shear	
	o Reflection	
	• <b>Composite Transformations</b>	
	o Rotations about a point	
	o Reflection about a line	
o Homogeneous Coordinate Systems		

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	<ul style="list-style-type: none"> <li>• <b>Clipping</b></li> </ul>	
	Point Clipping	
	Line Clipping -Cohen-Sutherland Clipping algorithm. Polygon Clipping: Sutherland Hodgeman Algorithm Windowing Transformation	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6</a>
4	<ul style="list-style-type: none"> <li>• <b>Projection</b></li> </ul>	
	Parallel Projection: Orthographic, Axonometric, Oblique Perspective Projection: Standard Perspective Projection General Perspective Projection, Vanishing Points	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6</a>
		<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">Gk</a>
	<ul style="list-style-type: none"> <li>• <b>Shading, Colour model and Illumination</b></li> </ul>	
5	Chromaticity diagram-RGB, CMY, HSV, HLS, CIE models- Realism in rendering, Image manipulation: Illumination models, shading models for polygons, Gouraud and Phong shading , shadows, Transparency, Image Filtering, image processing, geometric Transformation of images.	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6</a>
		<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">Gk</a>
6	<ul style="list-style-type: none"> <li>• <b>Basics of Multimedia Technology</b></li> </ul>	
	<ul style="list-style-type: none"> <li>• Concepts of Multimedia: Types, Data Streams, Hardware and Software Requirements and Applications, Multimedia Authoring.</li> </ul>	
	<ul style="list-style-type: none"> <li>• Digital Audio: Audio Sampling, Recording Digital Audio, Audio Standards for Multimedia Applications.</li> </ul>	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6</a>
	MIDI File Formats, MIDI Hardware and Software. Image Compression Standards: Types.	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6</a>
	Video Compression and Standards: Compression Standards, MPEG Compression Basics, MPEG-1, MPEG-2, and MPEG-4	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6">Gk</a>
	<ul style="list-style-type: none"> <li>• Hypertext and Hypermedia</li> </ul>	
	<ul style="list-style-type: none"> <li>• <b>Graphics Image File Formats</b></li> </ul>	
	Raster Format,	
	Bitmap (BMP) Format,	
	Graphics Interchange Format (GIF),	
7	Joint Photographic Experts Group (JPEG), Tagged Image File Format (TIFF),	

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	Portable Network Graphics (PNG) and their differences.	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6Gk">https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6Gk</a>
8	<b>Computer Animation</b> <ul style="list-style-type: none"> <li>Development of Animations: Non Computer and Computer Based Animations, Different Types of Animations.</li> </ul>	
	Flash Basics: Flash Work Flow, Animation Using Flash. The Flash Work Environment: The Stage and the Time Line,	
	Symbols and Instances, Symbols and Interactive Movies, Using the Tool Box, Using	
	Panels, Using Context Menus, Moving the Play Head, Working the Frames using time line.	
	Drawing Overview: Flash Drawing and Painting Tools, Working With Color, Using Imported Art Work, Adding Sound, Representation of Animation.	<a href="https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6Gk">https://www.youtube.com/watch?v=7prZ5aZt9Ow&amp;list=PLrP-pAdcAQnunuZCS1OAWTWCDHJqjk6Gk</a>
	Using Layers: Adding and Deleting Layers, Viewing Layers. Creating Text Boxes for User input.	
	Creating Animations: Creating Key Frames, Layers in Animations, Frame Rates, Frame Rates, and Steps for creating animations. Frame by Frame Animations.	
	<ul style="list-style-type: none"> <li>Publishing and Exporting.</li> </ul>	

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<b>Subject Name :Datamining &amp; data Warehousing</b>
<b>Subject Code :IT 621</b>

<b>S. No.</b>	<b>Course Content</b>	<b>Video URL Link</b>
1	<b>FUNDAMENALS OF DATA MINING</b>	<a href="https://www.youtube.com/watch?v=Dq5qeXkSIHQ">https://www.youtube.com/watch?v=Dq5qeXkSIHQ</a>
	Data mining	
	The history of the data mining	
	Data Mining strategies	
	Popular data mining techniques	
	Data mining applications	
	Challenges of data mining	
	The future of data mining	
2	<b>DATA PROCESSING AND DATA WAREHOUSING</b>	<a href="https://www.youtube.com/watch?v=5-C0zRlz46Y">https://www.youtube.com/watch?v=5-C0zRlz46Y</a>
	Data, information and knowledge	
	Types of data	
	Data warehouses	
	Data cleaning	
	Data de-normalization	
	Data transformation	
	Data quality measure	
	OLAP(Online Analytical Processing)	
	Data Sampling	
3	<b>WEKA AN ATTRACTIVE DATA MINING TOOL</b>	<a href="https://www.youtube.com/watch?v=sFS-AGnGSKQ">https://www.youtube.com/watch?v=sFS-AGnGSKQ</a>  <a href="https://www.youtube.com/watch?v=leXt9bt">https://www.youtube.com/watch?v=leXt9bt</a>
	Introduction	
	Installing Weka	
	Weka data file format	
	Starting Weka	
	Data Visualization	
	Data filtering	

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	Selecting Attributes	<a href="#">uyEY</a>
	Data Mining with Weka	
4	<b>ASSOCIATION RULE MINING</b>	
	Transaction data	
	Concepts of association rules	
	Relevance of association rule mining	
	Functions of association rule mining	<a href="https://www.youtube.com/watch?v=npFoagWd8_s">https://www.youtube.com/watch?v=npFoagWd8_s</a>
	Improvement and share	
	The problem of large datasets	
	Apriority algorithm	
	Strengthens and weakness of Association Rule Mining	
	Application of Association Rule Mining	
5	<b>THE CLUSTERING TASK</b>	
	Introduction	
	Distance Measure	
	Types of clustering	
	Clustering through Weka: K-Means algorithms	<a href="https://www.youtube.com/watch?v=qPL-7O7m9tA">https://www.youtube.com/watch?v=qPL-7O7m9tA</a>
	Clustering Validation	
	Strengthens and weakness of Clustering algorithms	
	5.6 Applications of Clustering algorithms	
6	<b>THE ESTIMATION TASK</b>	
	Introduction	
	Scatter plots and correlation	
	Linear regression Models	<a href="https://www.youtube.com/watch?v=Cc71NYdQE3Q">https://www.youtube.com/watch?v=Cc71NYdQE3Q</a>
	Logistic regression	
	Regression analysis	
	Strengthens and weakness of estimation	
	Application of estimation	
7	<b>MINING OF TIME SERIES</b>	
	Introduction	
	Fundamental of times series analysis	
	Time Series models	<a href="https://www.youtube.com/watch?v=N73gCVsdJhg">https://www.youtube.com/watch?v=N73gCVsdJhg</a>
	Regression Model	
	Periodic Model	
	Strengthens and weakness of times series analysis	
	Application of times series analysis	

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<b>Subject Name :Hardware Maintenance &amp; microprocesor</b>
<b>Subject Code :IT</b>

<b>S. No.</b>	<b>Course Content</b>	<b>Video URL Link</b>
<b>1</b>	<p><b>HARDWARE FUNDAMENTALS</b></p> <p>Comparison between Hardware and Software Motherboard                      Central Processing Unit Memory                      BIOS USB                      Chipset, Video system, sound system, Drive system, MODEM, USB, Printers</p>	<p><a href="https://www.youtube.com/watch?v=bj1m786895g&amp;list=PLc5tmHi5vleVYCx-CDVH_Ya64TclPtPyU">https://www.youtube.com/watch?v=bj1m786895g&amp;list=PLc5tmHi5vleVYCx-CDVH_Ya64TclPtPyU</a></p>
<b>2</b>	<p><b>MOTHERBOARD</b></p> <p>Motherboard Controllers &amp; System Resources, Memory Mapping Interrupts Request Line (IRQ) - Purpose, Standard Assignments, Conflicts, Sharing &amp; ISA, PCI, PnP Configuration of IRQ</p> <ul style="list-style-type: none"> <li>• System Buses - Industry Standard Organization, Micro Channel Architecture, Enhanced Industry Standard Architecture, UESA Local Bus, Peripheral Component Interconnect, Accelerated Graphics Ports, PCI-X</li> <li>• Chipsets - Northbridge &amp; South Bridge, Function of Chipset Motherboard form factor</li> <li>• Batteries - charging, rating, CMOS backup Batteries, Backup Battery replacement</li> </ul>	<p><a href="https://www.youtube.com/watch?v=LeS6Psr6SaI&amp;list=PLRaAr7ZJmXeCLf0t33s3P2xRlqfpYB3U0&amp;index=35">https://www.youtube.com/watch?v=LeS6Psr6SaI&amp;list=PLRaAr7ZJmXeCLf0t33s3P2xRlqfpYB3U0&amp;index=35</a></p>
<b>3</b>	<p><b>CENTRAL PROCESSING UNIT (CPU)</b></p> <ul style="list-style-type: none"> <li>• Processor Specification - Clock Speed, FSB, L1, L2 &amp; L3 cache, Processor over clocking</li> <li>• CPU - RISC &amp; CISC Microprocessor</li> <li>• CPU Packaging - DIP, PGA, SPGA, MCM, LCC, PLCC &amp; Tape Carrier Package.</li> <li>• Intel CPU Family - Fifth generation &amp; Sixth Generation P6, Xeon, Celeron Processor, Intel Core i3,i5,i7 Series</li> <li>• AMD CPU Family - Fifth, Sixth, &amp; Seventh Generation K Series, Athlon, Thunder bid &amp; Duron Processor</li> </ul> <p>Handling &amp; Replacement of CPU, CPU Configuration FSB, Core Speed, Core Voltage Configuration</p>	<p><a href="https://www.youtube.com/watch?v=T9ttXOKsryo">https://www.youtube.com/watch?v=T9ttXOKsryo</a></p>



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<b>4</b>	<p><b>MEMORY</b></p> <ul style="list-style-type: none"> <li>• Logical Organization of Memory - Real Mode, Protected Mode, BIOS Data Area, Upper Memory, High Memory Area, Frame Buffer. Shadow &amp; Cache</li> <li>Memory Packaging - DTPP, STPP, SIMM, DIMM, RIMM</li> <li>RAM Types - EDO, SDRAM, VRAM, SGRM, RDRAM, DDRAM, PPRAM, DDR 1, DDR 2, DDR 3</li> <li>Memory Performance - Speed, Interleaving &amp; Caching</li> <li>Interfaces - IDE, ATA 1 to 6, Master Slave Configuration, SCSI, SATA, PATA.</li> <li>• SCSI Interface - BUS ID, Logical Unit Number, Termination, Signaling Types, SCSI Standards, Comparison between IDE &amp; SCSI</li> <li>• Optical Storage Devices - CD, DVD, and Blu-ray Disc</li> </ul>	<p><a href="https://www.youtube.com/watch?v=8YXlpJfADs">https://www.youtube.com/watch?v=8YXlpJfADs</a></p>
<b>5</b>	<p><b>BIOS</b></p> <p>BIOS Functions Cold &amp; Warm Booting BIOS Error Codes BIOS Interrupts</p> <p>Identification of Different BIOS (AMI &amp; AWARD BIOS) BIOS Memory Assignments,  BIOS Advance setup</p>	<p><a href="https://www.youtube.com/watch?v=4hr1a">https://www.youtube.com/watch?v=4hr1a</a> <a href="https://www.youtube.com/watch?v=G_E5">https://www.youtube.com/watch?v=G_E5</a> <a href="https://www.youtube.com/watch?v=YTSXJMn70gE&amp;list=PLRaAr7ZJmXeCLf0t33s3P2xRlqfpYB3U0&amp;index=18">https://www.youtube.com/watch?v=YTSXJMn70gE&amp;list=PLRaAr7ZJmXeCLf0t33s3P2xRlqfpYB3U0&amp;index=18</a></p>
<b>6</b>	<p><b>MAINTENANCE OF COMPUTER</b></p> <p>Error Codes- Beep Codes, Post Codes Windows System Tools – Back Up, Disk Clean Up, Disk Defragmenter, Files and Settings Transfer Wizard, Scheduled Tasks, Security Center, System Information, System Restore</p> <ul style="list-style-type: none"> <li>• Antivirus, Firewalls and Security Tools</li> </ul>	<p><a href="https://www.youtube.com/watch?v=t9AS">https://www.youtube.com/watch?v=t9AS</a> <a href="https://www.youtube.com/watch?v=AMpszY7v-M">https://www.youtube.com/watch?v=AMpszY7v-M</a>  <a href="https://www.youtube.com/watch?v=wPxT">https://www.youtube.com/watch?v=wPxT</a></p>
<b>7</b>	<p><b>MICROPROCESSOR ARCHITECHTURE &amp; PERIPHERALS</b></p> <p>Microprocessor architecture, Memory map &amp; addresses. Input &amp; output device, peripherals mapped I/O &amp; memory mapped I/O. Pin out details and the function of each pin.</p>	<p><a href="https://www.youtube.com/watch?v=yXg1j">https://www.youtube.com/watch?v=yXg1j</a></p>

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	<ul style="list-style-type: none"><li>• Microprocessor communication &amp; bus timings. 8085 m/c cycle &amp; bus timings, control signals, memory read &amp; writes.</li><li>• Memory interfacing, basic concepts, address decoding, interfacing of 8155-memory section.</li><li>• Functional block diagram, pin configuration of IC chips 8255, 8275, 8279,8237.</li></ul>	<a href="https://www.youtube.com/watch?v=4rnNjkCfISM&amp;list=PL0s3O6GgLL5cN1svnyKJrGovdK2mkLZXE">GBzhI4&amp;list=PL0s3O6GgLL5cN1svnyKJrGovdK2mkLZXE</a>
<b>8</b>	<b>MICROPROCESSOR APPLICATION</b> Interfacing multiplexed displays, interfacing to a matrix keyboard. A/D converter, D/A converter, stepper motor control.  Comparison of 8085 to 8086,80186,80286,80386 and 80486, multicore technology.	<a href="https://www.youtube.com/watch?v=4rnNjkCfISM&amp;list=PLZQgf2pQtimluJ6B1y8bZ9CZDQjyXya9M">https://www.youtube.com/watch?v=4rnNjkCfISM&amp;list=PLZQgf2pQtimluJ6B1y8bZ9CZDQjyXya9M</a>

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<https://www.youtube.com/watch?v=8YXlpJJfADs>

## Suggested link of Video lectures for Diploma (Information Technology ) Students

Subject Name :Linux server Administration		
Subject Code :IT 602		
S. No.	Course Content	Video URL Link
1	<b>Installing Linux as a Server</b>	<a href="https://www.youtube.com/watch?v=sHqrapu_Jb4&amp;list=PLE5WvHdqqZ7R3uvjDTdruOeNydL08sNRu">https://www.youtube.com/watch?v=sHqrapu_Jb4&amp;list=PLE5WvHdqqZ7R3uvjDTdruOeNydL08sNRu</a>
	Hardware Requirements	
	Methods of installation	
	Installing Fedora	
	Installing Ubuntu	
	Software Package Management & installation of GNU software	
2	<b>Booting of Kernel</b>	<a href="https://www.youtube.com/watch?v=3kVqW0k1p0A">https://www.youtube.com/watch?v=3kVqW0k1p0A</a>
	Boot Loader-GRUB,LILO	
	Kernel and source code of the kernel	<a href="https://www.youtube.com/watch?v=ZFodryKWPpo">https://www.youtube.com/watch?v=ZFodryKWPpo</a>
	Bootstrapping	
	Kernel configuration	
	The init Process	
	2.6.Enabling and Disable services	
3	<b>System administration</b>	<a href="https://www.youtube.com/watch?v=3Vvl0LAYBcs">https://www.youtube.com/watch?v=3Vvl0LAYBcs</a>
	Role of system administrator	
	Manage the users and groups	
	Monitoring the System	
	Managing drives and media	
	Creating and Editing Disk partition	
	Backup and restore files	
	Disk Usage Analyzer	
	Setting up and managing computer Network	
<b>Network Configuration</b>		
Modules and Network Interfaces		

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4	Network Device Configuration utilities	<a href="https://www.youtube.com/watch?v=7UYi0h2Vuuw">https://www.youtube.com/watch?v=7UYi0h2Vuuw</a>
	IP aliasing	
	Setting Up NIC at Boot Time	
	Managing Routes	
	Simple Usage	
	Displaying Routes	
	Static and Dynamic Routing.	
5	<b>Domain Name System (DNS) and File Transfer Protocol</b>	<a href="https://www.youtube.com/watch?v=mycOhwEqA_k">https://www.youtube.com/watch?v=mycOhwEqA_k</a>
	Working principal of DNS	
	Domain and Host Naming Convention.	
	Installation of DNS Server	
	DNS Toolbox :-host, dig, nslookup, whois, nsupdate, configuring the clients	
	FTP: vsftpd, starting and testing FTP server.	
6	<b>Apache server</b>	<a href="https://www.youtube.com/watch?v=sHqrapuJb4&amp;list=PLE5WvHdqgZ7R3uvjDTdruOeNydL08sNRu">https://www.youtube.com/watch?v=sHqrapuJb4&amp;list=PLE5WvHdqgZ7R3uvjDTdruOeNydL08sNRu</a> <a href="https://www.youtube.com/watch?v=sCGIwLLOCSw">https://www.youtube.com/watch?v=sCGIwLLOCSw</a>
	HTTP protocol.	
	Starting apache at boot time.	
	Testing the installation.	
	Configuring apache server.	
7	<b>Internet Services</b>	<a href="https://www.youtube.com/watch?v=cHarapuIh4&amp;list=https://www.youtube.com/watch?v=vM8cQEJFRi4">https://www.youtube.com/watch?v=cHarapuIh4&amp;list=https://www.youtube.com/watch?v=vM8cQEJFRi4</a> <a href="https://www.youtube.com/watch?v=Ogxw8o66OgU">https://www.youtube.com/watch?v=Ogxw8o66OgU</a> <a href="https://www.youtube.com/watch?v=...">https://www.youtube.com/watch?v=...</a>
	Mail Server: SMPT, POP and IMAP basics and settings.	
	Secure Shell: Public key cryptography, OpenSSH and OpenBSD, 7.3.Network File Systems (NFS), Network Information Services(NIS)	
	SAMBA server.	
	LDAP, Printing, DHCP, Virtualization.	

## Suggested link of Video lectures for Diploma (Information Technology ) Students

<b>Subject Name :Network Management Administration</b>
<b>Subject Code :IT 502</b>

S.No.	Course Content	Video URL Link
1	Network management–definition, need and advantages. Windows NT Networking Architecture, Windows NT Operating System Design and Basics, Open Systems and Industry Standards, Client/Server Computing, Interoperating with Other Networks, Remote Access Service-Point to point protocol, Network Security and Domain Planning- Security Model Architecture, Controlling Access, User	<a href="https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU">https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU</a>
2	Windows NT Browser Service-Specifying Browser Computers. Browser System Roles- Non-browsers, Potential browsers, Backup browsers, Master Browser Announcements- Non-browser Announcements, Potential -browser Announcements Backup-browser Announcements Browser Requests.	<a href="https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU">https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU</a>
3	Network Services: Enterprise Level- Installing and Configuring TCP/IP Installing DNS Service	<a href="https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU">https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU</a>
4	SNMP for Network Management- Overview of SNMP, SNMP Registry, Management Information Base, Object Identifiers, SNMP Installation, Starting and Stopping the SNMP Service, Troubleshooting SNMP	<a href="https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU">https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU</a>



## Suggested link of Video lectures for Diploma (Information Technology ) Students

5	<p>Troubleshooting Tools and Strategies- Overview of TCP/IP Troubleshooting Tools, Identify the TCP/IP Configuration by Using IPConfig ,Test Connection to the TCP/IP Network by Using Ping, Understanding Address and Name Resolution Test IP-address-to- MAC-address Resolution by Using ARP ,Understanding IP Routing for Windows NT - The Route Table, Display Current TCP/IP Connections and Statistics by Using Netstat, Using Performance Monitor ,Troubleshooting Other Connection Problems - Error 53, Cannot Connect to a Specific Server ,Troubleshooting Telnet.</p>	<p><a href="https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU">https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU</a></p>
6	<p>Remoteboot- Understanding the Remoteboot Service, The Remoteboot Process, Setting Up and Starting the Remoteboot Service ,Starting and Stopping the Remoteboot Service, Starting Remoteboot Manager, Checking the Remoteboot Installation, Managing Remoteboot Clients, Enabling Remoteboot on a Client's Hard Disk, Adding a New Client, Deleting a Client.</p>	<p><a href="https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU">https://www.youtube.com/watch?v=ergmDVzANVo&amp;list=PLa9qaRTIbrkpfDF0rw8JNHuzYg0hlosaU</a></p>