

7th Semester CSE 17CS71 WEB TECHNOLOGY AND ITS APPLICATIONS

Modules	Topics	PPT	Video Links	E- Materials		Date
Module 3	JavaScript: Client-Side Scripting, What is JavaScript and What can it do?	Will be mailed to group mail Id	https://www.youtube.com/watch?v=J2q0x70YDPk	https://developer.mozilla.org/en-US/docs/Learn/JavaScript/First_steps/What_is_JavaScript	December 1 st Week	Online Class
	JavaScript Design Principles, Where does JavaScript Go?, Syntax, JavaScript Objects,		https://www.youtube.com/watch?v=UQqY3_6Epbg https://www.youtube.com/watch?v=X0ipw1k7ygU	https://www.infoq.com/news/2014/01/solid-principles-javascript/		Online Class
	The Document Object Model(DOM), JavaScript Events,		https://www.youtube.com/watch?v=O6BNfJz3rgs&list=PLyuRouwmQCjkuH93Mq8zgi8bybNjvDTu2	https://www.w3schools.com/js/j_s_objects.asp		Online Class
	Forms, Introduction to Server-Side Development with PHP,		https://www.youtube.com/watch?v=oQbDKJ3WXZg	https://www.w3schools.com/js/j_s_htmlDOM.asp		Online Class
	What is Server-Side Development, A Web Server's Responsibilities,		https://www.youtube.com/watch?v=CXnU9L1GHmQ	https://www.w3schools.com/js/j_s_events.asp	December 2 nd Week	Online Class
	Quick Tour of PHP,		https://www.youtube.com/watch?v=hx38tnlYGIA	https://www.w3schools.com/php/default.asp		Online Class

	Program Control, Functions		https://www.youtube.com/watch?v=8n6QCLivVR0 https://www.youtube.com/watch?v=twv1y8OTFdI	https://www.w3schools.com/php/php_looping.asp		Online Class
Module 4	PHP Arrays and Superglobals, Arrays, \$_GET and \$_POST Superglobal Arrays,	Will be mailed to group mail Id	https://www.youtube.com/watch?v=TbKZR1XFbIc https://www.youtube.com/watch?v=fTs3deU7n10	https://drive.google.com/drive/folders/15muALkTL60tp446a6INkbt0keTQSFIW3?usp=sharing	December 3 rd Week	Online Class
	\$_SERVER Array, \$_FILES Array, Reading/Writing Files,		https://www.youtube.com/watch?v=zW7EQvxJO28 https://www.youtube.com/watch?v=Y5L53wClooQ			Online Class
	PHP Classes and Objects, Object-Oriented Overview,		https://www.youtube.com/watch?v=yrIbbKuSqK8			Online Class
	Classes and Objects in PHP,		https://www.youtube.com/watch?v=S9YdBj72ncM			Online Class
	Object Oriented Design,		https://www.youtube.com/watch?v=fJW65Wo7IHI&list=PLGLfVvz_LVvS5P7khyR4xDp7T9ICk9PgE			Online Class
	Error Handling and Validation,		https://www.youtube.com/watch?v=a4u0YulEIX8			December 4 th Week

	What are Errors and Exceptions?		https://www.youtube.com/watch?v=a4u0YulEIX8			Online Class	
	PHP Error Reporting,						Online Class
	PHP Error and Exception Handling						Online Class

7th Semester CSE 17CS72 Advanced Computer Architecture

Modules	Topics	PPT	Video Links	E- Materials	Date [1hrs]	
Module 3 (remaining topics)	Pipelining and Superscalar Techniques	Will be mailed to group mail ID	https://youtu.be/TkY_X8jOT1w	http://iceas.ac.in/wp-content/uploads/2018/12/CA_MOD3.pdf	Online class – December 1 st Week	
	Linear Pipeline Processors					
	Nonlinear Pipeline Processors		https://youtu.be/1en13rREQVA			
	Instruction Pipeline Design		https://youtu.be/Xkgdy0ck6B4			
	Arithmetic Pipeline Design		https://youtu.be/xeb0mEIWISk			
Module 4	Multiprocessors and Multicomputers: Multiprocessor System Interconnects	Will be mailed to group mail ID	https://youtu.be/z_PRLF3op6k	http://iceas.ac.in/wp-content/uploads/2018/12/CA_MOD4.pdf	Online class – December 2 nd Week	
	Cache Coherence and Synchronization Mechanisms		https://youtu.be/DTPE6QXv7jA			
	Message-Passing Mechanisms		https://www.youtube.com/watch?v=0KJ3NQvYFIw			Online class – December 3 rd Week
	Multivector and SIMD Computers, Vector Processing Principles		https://www.youtube.com/watch?v=Mgnmm0M2ocw			
	Multivector Multiprocessors		https://www.youtube.com/watch?v=PDG_2MII-c			
	Compound Vector Processing ,		https://www.youtube.com/watch?v=EX_STsWogkE			

	SIMD Computer Organizations		https://www.youtube.com/watch?v=EX_STsWogkE		
Module 5	Parallel Models, Languages, and Compilers		https://www.youtube.com/watch?v=RVJvRR6hgbg		Online class – December 4 th Week
	Program Development and Environments		https://www.youtube.com/watch?v=TFZrSNd7jYo		
	Synchronization and Multiprocessing Modes		https://www.youtube.com/watch?v=3Eaw1SSlqRg		

	Issues in decision tree learning (Continue)		https://www.youtube.com/watch?v=YfLg3NSfY2o	https://medium.com/@pralhad2481/chapter-3-decision-tree-learning-part-2-issues-in-decision-tree-learning-babdfdf15ec3	23/10/2020
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7th Sem CSE 17CS73 Machine Learning (Module 3)

Modules	Topics [1hr each]	PPT	Video Links	E- Materials		Date [2hrs]
Module 3: Artificial Neural Networks	Artificial Neural Networks: Introduction		https://www.youtube.com/watch?v=bfmFfD2RlCg	https://towardsdatascience.com/introduction-to-artificial-neural-networks-5036081137bb		27/10/2020
	Neural Network representation		https://www.youtube.com/watch?v=aircAruvnKk	https://www.kdnuggets.com/2019/10/introduction-artificial-neural-networks.html		3/11/2020
	Appropriate problems		https://www.youtube.com/watch?v=aircAruvnKk	https://www.kdnuggets.com/2019/10/introduction-artificial-neural-networks.html		4/11/2020
	Appropriate problems (Continue)		https://www.youtube.com/watch?v=aircAruvnKk	https://www.kdnuggets.com/2019/10/introduction-artificial-neural-networks.html		6/11/2020
	Perceptrons		https://www.youtube.com/watch?v=4Gac5I64LM4	https://towardsdatascience.com/what-is-a-perceptron-210a50190c3b		12/11/2020
	Perceptrons (Continue)		https://www.youtube.com/watch?v=4Gac5I64LM4	https://deeplai.org/machine-learning-glossary-and-terms/perceptron	December 1 st Week	Online Class
				https://towardsdatascience.com/what-the-hell-is-perceptron-626217814f53		Online Class
	Backpropagation algorithm					Online Class
Backpropagation algorithm (Continue)	https://www.youtube.com/watch?v=llg3gGewQ5U	http://neuralnetworksanddeeplearning.com/chap2.html		Online Class		

7th Sem CSE 17CS73 Machine Learning (Module 4)

Modules	Topics [1hr each]	PPT	Video Links	E- Materials		Date [2hrs]
Module 4: Bayesian Learning	Bayesian Learning: Introduction		https://www.youtube.com/watch?v=0F0QoMCSKJ4	https://wso2.com/blog/research/part-one-introduction-to-bayesian-learning	December 2 nd week	Online Class
	Bayes theorem		https://www.youtube.com/watch?v=XQoLV131ZfQ	https://www.mathsisfun.com/data/bayes-theorem.html		Online Class
	Bayes theorem and concept Learning		https://www.youtube.com/watch?v=qVRf3cvINPY	https://www.cs.auckland.ac.nz/~pat/706_98/ln/node234.html		Online Class
	Bayes theorem and concept Learning (Continue)		https://www.youtube.com/watch?v=qVRf3cvINPY	https://www.cs.auckland.ac.nz/~pat/706_98/ln/node234.html		Online Class
	Bayes theorem (problem)		https://www.statisticshowto.com/bayes-theorem-problems/	https://www.youtube.com/watch?v=qVRf3cvINPY	December 3 rd week	Online Class
	ML and LS error hypothesis		https://towardsdatascience.com/where-did-the-least-square-come-from-3f1abc7f7caf	https://www.youtube.com/watch?v=raGRUmfHTFY		Online Class
	ML for predicting probabilities		https://machinelearningmastery.com/how-to-score-probability-predictions-in-python/	https://www.youtube.com/watch?v=8bK-xfh8-rY		Online Class
	MDL principle and Naive Bayes classifier		https://profs.info.uaic.ro/~ciortuz/SLIDES/ml6.pdf	https://www.youtube.com/watch?v=PPeaRc-r1OI		Online Class
	Bayesian belief networks		https://towardsdatascience.com/introduction-to-bayesian-belief-networks-c012e3f59f1b	https://www.youtube.com/watch?v=480a_2jRdK0		Online Class

	Bayesian belief networks (Continue)		https://towardsdatascience.com/introduction-to-bayesian-belief-networks-c012e3f59f1b	https://www.youtube.com/watch?v=480a_2jRdK0	December 4 th week	Online Class
	EM algorithm		https://machinelearningmastery.com/expectation-maximization-em-algorithm/	https://www.youtube.com/watch?v=DIADjJXrgps		Online Class
	EM algorithm (k-means)		https://machinelearningmastery.com/expectation-maximization-em-algorithm/	https://www.youtube.com/watch?v=DIADjJXrgps		Online Class

7 th Sem CSE 17CS742 Cloud Computing & its Architecture						
Modules	Topics	PPT	Video Links	E- Materials	Date	
Module-3: Concurrent Computing, Thread Programming	Programming Applications with Aneka Threads, Aneka Threads Application Model, Domain	https://drive.google.com/file/d/1M7JR9cQVFJl8XN2AKm9LvLg8WhThNqIX/view?usp=sharing	https://www.youtube.com/watch?v=7CnM1RHF4K0&t=36s	https://drive.google.com/file/d/1M7JR9cQVFJl8XN2AKm9LvLg8WhThNqIX/view?usp=sharing	December First week	Online Class
	Decomposition: Matrix Multiplication, Functional Decomposition: Sine, Cosine, and Tangent.	https://drive.google.com/file/d/1M7JR9cQVFJl8XN2AKm9LvLg8WhThNqIX/view?usp=sharing	https://www.youtube.com/watch?v=009rPCr6xaI&t=74s	https://drive.google.com/file/d/1M7JR9cQVFJl8XN2AKm9LvLg8WhThNqIX/view?usp=sharing		Online Class
	High-Throughput Computing: Task Programming, Task Computing, Characterizing a Task, Computing Categories,	https://drive.google.com/file/d/1f-bMjMONfjgCh-9hGy93St4v9gNTy3Zp/view?usp=sharing	https://www.youtube.com/watch?v=BJeLXCPvvsE	https://drive.google.com/file/d/1f-bMjMONfjgCh-9hGy93St4v9gNTy3Zp/view?usp=sharing		Online Class
	Frameworks for Task Computing, Task-based Application Models, Embarrassingly Parallel Applications,	https://drive.google.com/file/d/1f-bMjMONfjgCh-9hGy93St4v9gNTy3Zp/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1f-bMjMONfjgCh-9hGy93St4v9gNTy3Zp/view?usp=sharing		Online Class
	Parameter Sweep Applications, MPI Applications, Workflow Applications with Task Dependencies, Aneka Task-Based Programming,	https://drive.google.com/file/d/1f-bMjMONfjgCh-9hGy93St4v9gNTy3Zp/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1f-bMjMONfjgCh-9hGy93St4v9gNTy3Zp/view?usp=sharing	December Second week	Online Class

	Task Programming Model, Developing Applications with the Task Model, Developing Parameter Sweep Application, Managing Workflows.	https://drive.google.com/file/d/1f-bMjMONfigCh-9hGy93St4v9gNTy3Zp/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1f-bMjMONfigCh-9hGy93St4v9gNTy3Zp/view?usp=sharing		Online Class
Module-4: Data Intensive Computing	Data Intensive Computing: Map-Reduce Programming, What is Data-Intensive Computing?,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class
	Characterizing Data-Intensive Computations, Challenges Ahead,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class
	Historical Perspective,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	December Third Week	Online Class
	Technologies for Data-Intensive Computing,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class

	Storage Systems, Programming Platforms,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class
	Aneka MapReduce Programming,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class
	Introducing the MapReduce Programming Model,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class
	Example Application	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=JBo2vV5SpOM&list=PLWPirh4EWFpENQHvu9aBdLfZEDotdAdy1	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	December Fourth Week	Online Class
Module-5	Cloud Platforms in Industry, Amazon Web Services, Compute Services,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=RLdXTyt-w8	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class

	Storage Services, Communication Services, Additional Services,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=RLdXTyt-w8	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	December Fifth Week	Online Class
	Google AppEngine, Architecture and Core Concepts, Application Life-Cycle,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=IJS7iHFLZfw	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class
	Cost Model, Observations, Microsoft Azure,	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing	https://www.youtube.com/watch?v=0bNFkI_0jhc&list=PLVHgOku8Z936K1rtxEJaBgrWolp282ayK	https://drive.google.com/file/d/1R1rslkcrOZnCFwC0ePnCKQDngrz4dDF/view?usp=sharing		Online Class
	Azure Core Concepts, SQL Azure, Windows Azure Platform Appliance.		https://www.youtube.com/watch?v=0bNFkI_0jhc&list=PLVHgOku8Z936K1rtxEJaBgrWolp282ayK			
	Cloud Applications Scientific Applications, Healthcare: ECG Analysis in the Cloud, Biology: Protein Structure Prediction,		https://www.youtube.com/watch?v=aOCdJXC94hc			

	Biology: Gene Expression Data Analysis for Cancer Diagnosis, Geoscience: Satellite Image Processing, Business and Consumer Applications, CRM and ERP,		https://www.youtube.com/watch?v=aOCdJXC94hc			
	Productivity, Social Networking, Media Applications, Multiplayer Online Gaming.		https://www.youtube.com/watch?v=aOCdJXC94hc			

7th Sem CSE 17CS754 Storage Area Networks

Modules	Topics [1hr each]	P P T	Video Links	E- Materials	Week	Mode
MODULE 3- Back up, archive and replication	business continuity information availability causes of information unavailability BC terminologies		https://www.youtube.com/watch?v=6sDFBezRu0Q	https://drive.google.com/file/d/1g9KQNs9sZDtnI8xTbSVUCGZQ1izpG2Sk/view?usp=sharing https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing	December 1 st week	online
	BC planning life cycle failure analysis		https://www.youtube.com/watch?v=hA95qdA0cNM	https://drive.google.com/file/d/1G4b2V9Sj3Q0HEwB6Kx2kEtUuruyRFTkg/view?usp=sharing https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing		online
	BC technology solutions		https://www.youtube.com/watch?v=vZa8Gv1LcFQ&t=342s	https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing		online
	back up and recovery-disaster recovery operational recovery archieval		https://www.youtube.com/watch?v=hA95qdA0cNM	https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing		online
	backup methods- hot back up and		https://www.youtube.com/watch?v=m3w	https://drive.google.com/file/d/1G4b2V9Sj3Q0HEwB6Kx2kEtUuruyRFTkg/view?usp=sharing		online

MODULE-4 Cloud Computing- definition, characteristics, services and deployment models	cold backup		Xh2M46dM	https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing	December 2 nd week	
	backup topologies-direct, SAN,LAN		https://www.youtube.com/watch?v=zFQFFLF3Pvg	https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing		online
	Data deduplication and backup in virtualized environment, Fixed content and data archive		https://www.youtube.com/watch?v=OG9rIECBTP0	https://drive.google.com/file/d/1LarTCudxB1xsPn4YHvoD9JCa9yIfkhUO/view?usp=sharing https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing		online
	Cloud Computing Cloud Enabling Technologies Cloud Service models		https://www.youtube.com/watch?v=N6R3yISt5fE	https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing	December 3 rd week	online
	Cloud Deployment Models		https://www.youtube.com/watch?v=N6R3yISt5fE	https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing		online

<p>Cloud Computing Infrastructure</p> <p>Cloud Challenges</p>		<p>https://www.youtube.com/watch?v=N6R3yISt5fE</p>	<p>https://drive.google.com/file/d/1LarTCudxB1xsPn4YHvoD9JCa9yIfkhUO/view?usp=sharing</p> <p>https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing</p>		<p>online</p>
<p>cloud mitigation considerations</p>		<p>https://www.youtube.com/watch?v=qTU5DOANLkk</p>	<p>https://drive.google.com/file/d/1LarTCudxB1xsPn4YHvoD9JCa9yIfkhUO/view?usp=sharing</p> <p>https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing</p>	<p>December 4th week</p>	<p>online</p>
<p>cloud computing environment services</p>		<p>https://www.youtube.com/watch?v=qTU5DOANLkk</p>	<p>https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing</p> <p>https://drive.google.com/file/d/12dX5diK_ySFCpvyzZNDc7a-zgm_83C8F/view?usp=sharing</p>		<p>online</p>
<p>business drives for cloud computing</p>		<p>https://www.youtube.com/watch?v=qTU5DOANLkk</p>	<p>https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing</p>		<p>online</p>

	cloud infrastructure components		https://www.youtube.com/watch?v=qTU5DOANLkk	https://drive.google.com/file/d/1f7vKwaO5NgbMZindR5s6pc6s1h8St-ul/view?usp=sharing https://drive.google.com/file/d/1u1GstVF-yQmU20im52LQMPPhBI1PXaqXe/view?usp=sharing	December 5 th week	online
	cloud deployment models		https://www.youtube.com/watch?v=qTU5DOANLkk	https://drive.google.com/file/d/1rYzpKXE5FiCQAYkAKQQO9_VHJzDsHDO8/view?usp=sharing https://drive.google.com/file/d/1fLuHXgmjdiOcDIT93633haO2cTVTVm-j/view?usp=sharing https://drive.google.com/file/d/1u1GstVF-yQmU20im52LQMPPhBI1PXaqXe/view?usp=sharing		online
	cloud computing applications		https://www.youtube.com/watch?v=aOCdJXC94hc	https://drive.google.com/file/d/1fLuHXgmjdiOcDIT93633haO2cTVTVm-j/view?usp=sharing		online