

**6TH ISE- 17CS61 - CRYPTOGRAPHY, NETWORK SECURITY AND CYBER LAWS**

**MODULE-2 – (Modules 1, 5 already completed)**

<b>Modules</b>	<b>Topics per hour</b>	<b>PPT</b>	<b>Video Links</b>	<b>E- Materials</b>	<b>Date &amp; Duration</b>
<b>Module-2: Public Key Cryptography and RSA – RSA Operations, Why Does RSA Work?, Performance, Applications, Practical Issues, Public Key Cryptography Standard (PKCS), Cryptographic Hash - Introduction, Properties, Construction, Applications and Performance, The Birthday Attack, Discrete Logarithm and its Applications - Introduction, Diffie-Hellman Key Exchange, Other Applications.</b>	Cryptographic Hash and Properties [Lecture 1]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=LecXwERfUCU&amp;t=49s">https://www.youtube.com/watch?v=LecXwERfUCU&amp;t=49s</a> <a href="https://www.youtube.com/watch?v=gTOP4IMwoK0">https://www.youtube.com/watch?v=gTOP4IMwoK0</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	26th – 27th March, 2020 2 days
	Generic Cryptographic Hash, SHA-1 [Lecture 2]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=-hEVWwZktGA">https://www.youtube.com/watch?v=-hEVWwZktGA</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	27th - 28th March, 2020 2 days
	Application & Performance - Hash based HMAC [Lecture 3]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=Fr2fQIQIokY">https://www.youtube.com/watch?v=Fr2fQIQIokY</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	28th - 29th March, 2020 2 days
	Application & Performance - Digital Signature [Lecture 4]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=704dudhA7UI">https://www.youtube.com/watch?v=704dudhA7UI</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	29th - 30th March, 2020 2 days
	Diffie-Hellman Key Exchange protocol [Lecture 5]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=zLKT4-uRGw4">https://www.youtube.com/watch?v=zLKT4-uRGw4</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	30th - 31th March, 2020 2 days
	Attacks on Diffie-Hellman Key Exchange protocol [Lecture 6]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=PPt7yvBtGRI">https://www.youtube.com/watch?v=PPt7yvBtGRI</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	31st - 1st April, 2020 2 days
	EL Gamal Encryption & Signatures [Lecture 7]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=-6hYGOntFPs">https://www.youtube.com/watch?v=-6hYGOntFPs</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	1st – 2nd April, 2020 2 days
	Public key cryptography and RSA [Lecture 8]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=2Z3toEiY5II">https://www.youtube.com/watch?v=2Z3toEiY5II</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	2nd – 3rd April, 2020 2 days
	RSATime Complexity, Speeding-up RSA, Software Performance [Lecture 9]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=HWNcfxUadUs">https://www.youtube.com/watch?v=HWNcfxUadUs</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a>	3rd - 4th April, 2020 2 days
	Applications, Practical Issues & Public Key Cryptography	Will be mailed to group	<a href="https://www.youtube.com/watch?v=y9n5FQIKA6g">https://www.youtube.com/watch?v=y9n5FQIKA6g</a>	<a href="http://15cs61svit.blogspot.com/2018/06/module-2.html">http://15cs61svit.blogspot.com/2018/06/module-2.html</a> , <a href="http://15cs61svit.blogspot.com/2018/06/question-">http://15cs61svit.blogspot.com/2018/06/question-</a>	4th - 5th April, 2020 2 days

	Standard (PKCS) [Lecture 10]	mail id		<a href="#">bank.html</a>	
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Assignment: Objective question will be given at the end of the module  
Model question are share at the end of the module

### MODULE-3

<b>Module-3:</b> <b>Key Management - Introduction, Digital Certificates, Public Key Infrastructure, Identity-based Encryption, Authentication-I - One way Authentication, Mutual Authentication, Dictionary Attacks, Authentication - II - Centralised Authentication, The Needham-Schroeder Protocol, Kerberos, Biometrics, IPsec-Security at the Network Layer - Security at Different layers: Pros and Cons, IPsec in Action, Internet Key</b>	About Key management and Types of Digital Certificate [Lecture 1]	Will be mailed to group mail id	<b>1.Key Management:</b> <a href="https://www.youtube.com/watch?v=qXLD2UHq2vk">https://www.youtube.com/watch?v=qXLD2UHq2vk</a> , <a href="https://www.youtube.com/watch?v=JAgaWJivKwg">https://www.youtube.com/watch?v=JAgaWJivKwg</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	5th - 6th April, 2020 2 days
	PKI Functions & PKI architecture [Lecture 2]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=Vo8hJNdT79s">https://www.youtube.com/watch?v=Vo8hJNdT79s</a> , <a href="https://www.youtube.com/watch?v=t0F7fe5Alwg">https://www.youtube.com/watch?v=t0F7fe5Alwg</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	6th - 7th April, 2020 2 days
	Digital Certificate revocation [Lecture 3]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=VEkSmeJPrCA">https://www.youtube.com/watch?v=VEkSmeJPrCA</a> , <a href="https://www.youtube.com/watch?v=WXNKQ_otO_g">https://www.youtube.com/watch?v=WXNKQ_otO_g</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	7th - 8th April, 2020 2 days
	About authentication & Types of authentication [Lecture 4]	Will be mailed to group mail id	<b>2.Authentication-I :</b> <a href="https://www.youtube.com/watch?v=0Y6a8KJWQGE">https://www.youtube.com/watch?v=0Y6a8KJWQGE</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	8th - 9th April, 2020 2 days
	Types of Mutual authentications and Attacks [Lecture 5]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=Y6d-fRMJObI">https://www.youtube.com/watch?v=Y6d-fRMJObI</a> , <a href="https://www.youtube.com/watch?v=gZ0ZF74rUB8">https://www.youtube.com/watch?v=gZ0ZF74rUB8</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	9th - 10th April, 2020 2 days
	Centralised Authentication - Needham Schroeder protocol with attacks [Lecture 6]	Will be mailed to group mail id	<b>3.Authentication-II:</b> <a href="https://www.youtube.com/watch?v=QLHd44L8A_E">https://www.youtube.com/watch?v=QLHd44L8A_E</a> , <a href="https://www.youtube.com/watch?v=V7ibcCclsGI">https://www.youtube.com/watch?v=V7ibcCclsGI</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	10th - 11th April, 2020 2 days
	Kerberos [Lecture 7]	Will be mailed to group	<a href="https://www.youtube.com/watch?v=p6w9RZ5PNho">https://www.youtube.com/watch?v=p6w9RZ5PNho</a> , <a href="https://www.youtube.com/watch?v=44CHD3Vx-0">https://www.youtube.com/watch?v=44CHD3Vx-0</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	11th - 12th April,

<b>Exchange (IKE) Protocol, Security Policy and IPSEC, Virtual Private Networks, Security at the Transport Layer - Introduction, SSL Handshake Protocol, SSL Record Layer Protocol, OpenSSL..</b>		mail id			2020 2 days
	<b>About Biometrics, Finger and Iris Scan[Lecture 8]</b>	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=U6FMh9I032c">4.IPSec-security at the network Layer:</a> <a href="https://www.youtube.com/watch?v=U6FMh9I032c">https://www.youtube.com/watch?v=U6FMh9I032c,</a> <a href="https://www.youtube.com/watch?v=xAy2DWnqpC8">https://www.youtube.com/watch?v=xAy2DWnqpC8</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	12th - 13th April, 2020 2 days
	<b>IPSec Association, AH, ESP, Tunnel &amp; Transport Mode[Lecture 9]</b>	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=-QevxIq1dcE">https://www.youtube.com/watch?v=-QevxIq1dcE,</a> <a href="https://www.youtube.com/watch?v=ADzuKpOgYgs">https://www.youtube.com/watch?v=ADzuKpOgYgs</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	13th - 14th April, 2020 2 days
	<b>TLSecurity-SSL-Handshake&amp; Record protocols, OPEN SSL[Lecture 10]</b>	Will be mailed to group mail id	<b>5.Security at transport layer:</b> <a href="https://www.youtube.com/watch?v=IL7OvI5ohtU">https://www.youtube.com/watch?v=IL7OvI5ohtU,</a> <a href="https://www.youtube.com/watch?v=K_6U54-nKtY">https://www.youtube.com/watch?v=K_6U54-nKtY</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	14th - 15th April, 2020 2 days

**Assignment: Objective question will be given at the end of the module  
Model question are share at the end of the module**

#### MODULE-4

<b>Module-4: IEEE 802.11 Wireless LAN Security - Background, Authentication, Confidentiality and Integrity, Viruses, Worms, and Other Malware, Firewalls – Basics, Practical Issues, Intrusion</b>	<b>[Lecture 1]</b> IEEE 802.11i , Wired And Wireless LAN	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=X11yN2cjEJ0">https://www.youtube.com/watch?v=X11yN2cjEJ0</a> <a href="https://www.youtube.com/watch?v=IE9MPV5rM6w">https://www.youtube.com/watch?v=IE9MPV5rM6w</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view</a>	24 <sup>th</sup> April 2020
	<b>[Lecture 2]</b> WEP, TKID And CCMP	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=DspgyuedICM">https://www.youtube.com/watch?v=DspgyuedICM</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view</a>	25A pril 2020
	<b>[Lecture 3]</b> Firewall Functionality, Policies and Access Control Lists	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=QOcVe0pT2uw">https://www.youtube.com/watch?v=QOcVe0pT2uw</a> <a href="https://www.youtube.com/watch?v=h8KBFRDvIRA">https://www.youtube.com/watch?v=h8KBFRDvIRA</a> <a href="https://www.youtube.com/watch?v=gFqzZm1-KH8">https://www.youtube.com/watch?v=gFqzZm1-KH8</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view</a>	27A pril 2020
	<b>[Lecture 4]</b> Firewall Types,	Will be mailed	<a href="https://www.youtube.com/watch?v=dQZCVRyDbzE">https://www.youtube.com/watch?v=dQZCVRyDbzE</a> <a href="https://www.youtube.com/watch">https://www.youtube.com/watch</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIJqVvE/view</a>	28A pril 2020

<b>Prevention and Detection - Introduction, Prevention Versus Detection, Types of Instruction Detection Systems, DDoS Attacks Prevention/ Detection, Web Service Security – Motivation, Technologies for Web Services, WS-Security, SAML, Other Standards.</b>	Practical Issues & Firewall Configuration	to group mail id	<a href="https://www.youtube.com/watch?v=_SHNidfPMVI">?v=_SHNidfPMVI</a> <a href="https://www.youtube.com/watch?v=dqlzQXo1wqo">https://www.youtube.com/watch?v=dqlzQXo1wqo</a>		
	[Lecture 5] Intrusion Prevention Versus Detection, Types Of Intrusion Detection Systems	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=rvKQtRklwQ4">https://www.youtube.com/watch?v=rvKQtRklwQ4</a> <a href="https://www.youtube.com/watch?v=8jcsJKe8mUo">https://www.youtube.com/watch?v=8jcsJKe8mUo</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view</a>	29 April 2020
	[Lecture 6] DDoS Detection & IP Trace back	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=dnlxB1WmW0s">https://www.youtube.com/watch?v=dnlxB1WmW0s</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view</a>	4 <sup>th</sup> May 2020
	[Lecture 7] Virus and Worm Features, Internet Scanning Worms	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=Wx8sMDXccG8">https://www.youtube.com/watch?v=Wx8sMDXccG8</a> <a href="https://www.youtube.com/watch?v=B52EXj9s-g">https://www.youtube.com/watch?v=B52EXj9s-g</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view</a>	5 <sup>th</sup> May 2020
	[Lecture 8] worm propagation models	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=8Vzsr08R-pM">https://www.youtube.com/watch?v=8Vzsr08R-pM</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view</a>	8 <sup>th</sup> May 2020
	[Lecture 9] mobile malware, botnets	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=PcQAfnsne9g">https://www.youtube.com/watch?v=PcQAfnsne9g</a> <a href="https://www.youtube.com/watch?v=s0sgiY93w9c">https://www.youtube.com/watch?v=s0sgiY93w9c</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view</a>	9 <sup>th</sup> May 2020
	[Lecture 10] web security and xml	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=Tjc6xYjh46g">https://www.youtube.com/watch?v=Tjc6xYjh46g</a>	<a href="https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view">https://drive.google.com/file/d/1Dh1bqC4Fj3fuPHJ0XGCF_27-enIjQVvE/view</a>	11 <sup>th</sup> May 2020
	<b>Digital Certificate-discussion [Lecture 11]</b>	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=VEkSmeJPrCA">https://www.youtube.com/watch?v=VEkSmeJPrCA</a> , <a href="https://www.youtube.com/watch?v=WXNKQ_otO_g">https://www.youtube.com/watch?v=WXNKQ_otO_g</a> <a href="https://www.youtube.com/watch?v=qXLD2UHq2vk">https://www.youtube.com/watch?v=qXLD2UHq2vk</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	12 <sup>th</sup> May 2020
	<b>Kerberos-discussion [Lecture 12]</b>	Will be mailed to	<a href="https://www.youtube.com/watch?v=p6w9RZ5PNho">https://www.youtube.com/watch?v=p6w9RZ5PNho</a> <a href="https://www.youtube.com/watch?v=44CHD3Vx-0">https://www.youtube.com/watch?v=44CHD3Vx-0</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	15 <sup>th</sup> May 2020

		group mail id			
	<b>About Biometrics-Discussion)-, [Lecture 13]</b>	Will be mailed to group mail id	<a href="#">4.IPSec-security at the network Layer:</a> <a href="https://www.youtube.com/watch?v=U6FMh9I032c">https://www.youtube.com/watch?v=U6FMh9I032c,</a> <a href="https://www.youtube.com/watch?v=xAy2DWnqpC8">https://www.youtube.com/watch?v=xAy2DWnqpC8</a>	<a href="http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html">http://15cs61svit.blogspot.com/2018/05/module-3chapter-4.html</a>	16th May 2020

**Assignment: Objective question will be given at the end of the module**  
**Model question are share at the end of the module**

**REVISION OF MODULES AND MODEL QUESTION PAPERS**

<b>Revision on SOME THE TOPICS of Module1 to 5</b>	Revision on Important question – Module-1	Will be mailed to group mail id	Uploaded	<a href="#">Model question paper of Model paper-1</a>	18th May 2020
	Revision on Important question – Module-2	Will be mailed to group mail id	Uploaded	<a href="#">Model question paper of Model paper-2</a>	19th May 2020
	Revision on Important question – Module-3	Will be mailed to group mail id	Uploaded	<a href="#">Model question paper of Model paper-3</a>	25th May 2020
	Important question – Module-4	Will be mailed to group mail id	Uploaded	<a href="#">Model question paper of Model paper-4</a>	26th May 2020
	Revision on Important question – Module-5	Will be mailed to group mail id	Uploaded	<a href="#">Model question paper of Model paper-5</a>	29th May 2020
	Revision on Important question – Module-5	Will be mailed to group mail id	Uploaded	<a href="#">Model question paper of Model paper-5</a>	30th May 2020

**CNC- MODULE-5 REVISION SCHEDULE FROM JUNE 1ST TO 10TH**

<b>Module5</b>	<b>Topics [1hr each]</b>	<b>PP T</b>	<b>Video Links</b>	<b>E- Materials</b>	<b>Date &amp; Duration</b>
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<b>Revision of Module5 with model question papers</b>	Revision on Important question – Module-5	Uplo aded	Uploaded	<a href="#">Model question paper of Model paper-5</a>	1/06/ 20
	Revision on Important question – Module-5	Uplo aded	Uploaded	<a href="#">Model question paper of Model paper-5</a>	2/06/ 20
	Revision on Important question – Module-5	Uplo aded	Uploaded	<a href="#">Model question paper of Model paper-5</a>	5/06/ 20
	Revision on Important question – Module-5	Uplo aded	Uploaded	<a href="#">Model question paper of Model paper-5</a>	6/06/ 20
	Revision on Important question – Module-5	Uplo aded	Uploaded	<a href="#">Model question paper of Model paper-5</a>	8/06/ 20
	Revision on Important question – Module-5	Uplo aded	Uploaded	<a href="#">Model question paper of Model paper-5 and QUIZ</a>	9/06/ 20
	Revision on Important question – Module-5	Uplo aded	Uploaded	<a href="#">Model question paper of Model paper-5</a>	1/06/ 20

### 6<sup>th</sup> Sem ISE 17IS62 File Structures (Module 3)

Modules	Topics [1hr each]	PPT	Video Links	E- Materials	Date & Durations
<b>Module 3 : Consequential processing and the sorting of large Files</b>	A Model for Implementing Consequential Processes [Lecture 1]	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=SRdIAN5gKm4">https://www.youtube.com/watch?v=SRdIAN5gKm4</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect13.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect13.pdf</a> <a href="http://minkhollow.ca/Courses/461/Notes/Cosequential/CosequentialProcessing1.html">http://minkhollow.ca/Courses/461/Notes/Cosequential/CosequentialProcessing1.html</a>	26 <sup>th</sup> – 27 <sup>th</sup> March , 2020 2 days
	Application of the Model to a General Ledger Program [Lecture 2]		<a href="https://www.youtube.com/watch?v=6xEWTI1WXIU">https://www.youtube.com/watch?v=6xEWTI1WXIU</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect14.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect14.pdf</a>	27 <sup>th</sup> - 28 <sup>th</sup> March , 2020 2 days
	Extension of the Model to include Multi way Merging, A Second Look at Sorting in Memory [Lecture 3]		<a href="https://www.youtube.com/watch?v=wTAVwvbjac">https://www.youtube.com/watch?v=wTAVwvbjac</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect16.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect16.pdf</a>	28 <sup>th</sup> - 30 <sup>th</sup> March , 2020 2 days
	Merging as a Way of Sorting Large Files on Disk [Lecture 4]		Will be posted in Google groups	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-02/lect13.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-02/lect13.pdf</a> <a href="https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture10.pdf">https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture10.pdf</a>	29 <sup>th</sup> - 30 <sup>th</sup> March , 2020 2 days
	Multi-Level Indexing & B-Trees: The invention of B-Tree		<a href="https://www.youtube.com/watch?v=msv7AHuJf7s">https://www.youtube.com/watch?v=msv7AHuJf7s</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect17.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect17.pdf</a>	30 <sup>th</sup> - 31 <sup>th</sup> March



	<b>[Lecture 5]</b>				, 2020 2 days
	Statement of the problem, Indexing with Binary Search Trees <b>[Lecture 6]</b>		<a href="https://www.youtube.com/watch?v=4SNzC4uNmTA">https://www.youtube.com/watch?v=4SNzC4uNmTA</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect18.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect18.pdf</a>	1 <sup>th</sup> - 2 <sup>th</sup> April, 2020 2 days
	Multi-Level Indexing, B-Trees, Example of Creating a B-Tree <b>[Lecture 7]</b>		<a href="https://www.youtube.com/watch?v=CfAXjZPOzf0">https://www.youtube.com/watch?v=CfAXjZPOzf0</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect19.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect19.pdf</a>	2 <sup>th</sup> - 3 <sup>th</sup> April, 2020 2 days
	An Object-Oriented Representation of B-Trees, B-Tree Methods <b>[Lecture 8]</b>		<a href="https://www.youtube.com/watch?v=KdbFmwRvkvg">https://www.youtube.com/watch?v=KdbFmwRvkvg</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect20.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect20.pdf</a>	3 <sup>th</sup> - 4 <sup>th</sup> April, 2020 2 days
	Nomenclature, Formal Definition of B- Tree Properties, Worst-case Search Depth <b>[Lecture 9]</b>		<a href="https://www.youtube.com/watch?v=r37E6RNxB6w">https://www.youtube.com/watch?v=r37E6RNxB6w</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect20.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect20.pdf</a>	4 <sup>th</sup> - 5 <sup>th</sup> April, 2020 2 days
	Deletion, Merging and Redistribution, Redistribution during insertion; B* Trees, Buffering of pages, Virtual B-Trees; Variable-length Records and keys. <b>[Lecture 10]</b>		<a href="https://www.youtube.com/watch?v=Cb08RfKC-SM">https://www.youtube.com/watch?v=Cb08RfKC-SM</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect20.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect20.pdf</a>	5 <sup>th</sup> - 6 <sup>th</sup> April, 2020 2 days

**6<sup>th</sup> Sem ISE 17IS62 File Structures (Module 4)**

<b>Modules</b>	<b>Topics [1hr each]</b>	<b>PPT</b>	<b>Video Links</b>	<b>E- Materials</b>	<b>Date &amp; Durations</b>
Indexed Sequential Access & Prefix B+ Trees	Indexed Sequential Access <b>[Lecture 1]</b>	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=dVJ2x3UAsGQ">https://www.youtube.com/watch?v=dVJ2x3UAsGQ</a>	<a href="https://www.tutorialcup.com/dbms/indexed-sequential-access-method.htm">https://www.tutorialcup.com/dbms/indexed-sequential-access-method.htm</a>	6 <sup>th</sup> - 7 <sup>th</sup> April, 2020
	Maintaining a Sequence Set, Adding a Simple Index to the Sequence Set <b>[Lecture 2]</b>		<a href="https://www.youtube.com/watch?v=Zg-T2Zqq9YE">https://www.youtube.com/watch?v=Zg-T2Zqq9YE</a>	<a href="http://www.edwardbosworth.com/My3121Textbook_HTM/MyText3121_Ch27_01.htm">http://www.edwardbosworth.com/My3121Textbook_HTM/MyText3121_Ch27_01.htm</a>	
	The Content of the Index: Separators Instead of Keys		<a href="https://www.youtube.com/watch?v=Zg-T2Zqq9YE">https://www.youtube.com/watch?v=Zg-T2Zqq9YE</a>	<a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld005.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld005.htm</a>	
			<a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld005.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld005.htm</a>	<a href="https://www.webservices.ignou.ac.in/virtualcampus/audit/course/cst103/block2/unit3/cst103-bl2-u3-12.htm">https://www.webservices.ignou.ac.in/virtualcampus/audit/course/cst103/block2/unit3/cst103-bl2-u3-12.htm</a>	8 <sup>th</sup> - 9 <sup>th</sup> April,

	[Lecture 3]		<a href="https://www.youtube.com/watch?v=9kU1SPORaOI">atch?v=9kU1SPORaOI</a>	<a href="https://www.slideserve.com/manasa/chap-10-indexed-sequential-file-access-and-prefix-b-trees">Course/DFS-Lecture-11/tsld007.htm</a> <a href="https://www.slideserve.com/ocean/indexed-sequential-file-access-and-prefix-b-trees">https://www.slideserve.com/ocean/indexed-sequential-file-access-and-prefix-b-trees</a>	2020
	The Simple Prefix B+ Tree and its maintenance [Lecture 4]		<a href="https://www.youtube.com/watch?v=9kU1SPORaOI">https://www.youtube.com/watch?v=9kU1SPORaOI</a>	<a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld009.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld009.htm</a> <a href="https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture12_6_slides_per_page.pdf">https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture12_6_slides_per_page.pdf</a>	9 <sup>th</sup> - 10 <sup>th</sup> April, 2020
	Index Set Block Size, Internal Structure of Index Set Blocks [Lecture 5]		<a href="https://www.youtube.com/watch?v=aZjYr87r1b8">https://www.youtube.com/watch?v=aZjYr87r1b8</a>	<a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld011.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld011.htm</a> <a href="http://www.minkhollow.ca/Courses/461/Notes/Trees/BplusTrees.html">http://www.minkhollow.ca/Courses/461/Notes/Trees/BplusTrees.html</a>	10 <sup>th</sup> - 11 <sup>th</sup> April, 2020
	A Variable-order B- Tree, Loading a Simple Prefix B+Trees [Lecture 6]		<a href="https://www.youtube.com/watch?v=aZjYr87r1b8">https://www.youtube.com/watch?v=aZjYr87r1b8</a>	<a href="http://www.minkhollow.ca/Courses/461/Notes/Trees/BplusTrees.html">http://www.minkhollow.ca/Courses/461/Notes/Trees/BplusTrees.html</a>	11 <sup>th</sup> - 12 <sup>th</sup> April, 2020
	Loading a Simple Prefix B+Trees (Continue) [Lecture 7]		<a href="https://www.youtube.com/watch?v=aZjYr87r1b8">https://www.youtube.com/watch?v=aZjYr87r1b8</a>	<a href="https://www.slideserve.com/manasa/chap-10-indexed-sequential-file-access-and-prefix-b-trees">https://www.slideserve.com/manasa/chap-10-indexed-sequential-file-access-and-prefix-b-trees</a> <a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld012.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld012.htm</a>	13 <sup>th</sup> - 14 <sup>th</sup> April, 2020
	B-Trees, B+ Trees [Lecture 8]		<a href="https://www.youtube.com/watch?v=aZjYr87r1b8">https://www.youtube.com/watch?v=aZjYr87r1b8</a>	<a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld013.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld013.htm</a>	15 <sup>th</sup> - 16 <sup>th</sup> April, 2020
	Simple Prefix B+ Trees in Perspective [Lecture 9]		<a href="https://www.youtube.com/watch?v=aZjYr87r1b8">https://www.youtube.com/watch?v=aZjYr87r1b8</a>	<a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld015.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld015.htm</a>	16 <sup>th</sup> - 17 <sup>th</sup> April, 2020
	Simple Prefix B+ Trees in Perspective (Continue) [Lecture 10]		<a href="https://www.youtube.com/watch?v=aZjYr87r1b8">https://www.youtube.com/watch?v=aZjYr87r1b8</a>	<a href="https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld015.htm">https://www.site.uottawa.ca/~nat/Courses/DFS-Course/DFS-Lecture-11/tsld015.htm</a>	18 <sup>th</sup> - 19 <sup>th</sup> April, 2020

**6<sup>th</sup> Sem ISE 17IS62 File Structures (Module 5)**

Modules	Topics [1hr each]	PPT	Video Links	E- Materials	Date & Durat
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				ions	
Hashing	[Lecture 1] Hashing: Introduction, A Simple Hashing Algorithm	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=SWG9uoYUvSc">https://www.youtube.com/watch?v=SWG9uoYUvSc</a>	<a href="https://www.cs.cmu.edu/~adamchik/15-121/lectures/Hashing/hashing.html">https://www.cs.cmu.edu/~adamchik/15-121/lectures/Hashing/hashing.html</a>	25 <sup>th</sup> April, 2020
				<a href="https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture13.pdf">https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture13.pdf</a>	
			<a href="https://www.youtube.com/watch?v=mFY0J5W8Udk">https://www.youtube.com/watch?v=mFY0J5W8Udk</a>	<a href="https://homepages.cwi.nl/~manegold/teaching/DBtech/slides/ch12-2.pdf">https://homepages.cwi.nl/~manegold/teaching/DBtech/slides/ch12-2.pdf</a>	
				<a href="http://www.nhu.edu.tw/~chun/CS-ch13-File%20Structures.pdf">http://www.nhu.edu.tw/~chun/CS-ch13-File%20Structures.pdf</a>	
				<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect21.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect21.pdf</a>	
	[Lecture 2] Hashing Functions and Record Distribution		<a href="https://www.youtube.com/watch?v=UxRmP2T3Njs">https://www.youtube.com/watch?v=UxRmP2T3Njs</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect21.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect21.pdf</a>	28 <sup>th</sup> April, 2020
	[Lecture 3] How much Extra Memory should be used? Collision resolution by progressive overflow		<a href="https://www.youtube.com/watch?v=zeMa9sg-VJM">https://www.youtube.com/watch?v=zeMa9sg-VJM</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect22.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect22.pdf</a>	29 <sup>th</sup> April, 2020
	[Lecture 4] Buckets, Making deletions, Other collision resolution techniques		<a href="https://www.youtube.com/watch?v=xo9VsFzfg8g">https://www.youtube.com/watch?v=xo9VsFzfg8g</a>	<a href="http://www.minkhollow.ca/Courses/461/Notes/Hashing/HashingPartIII.html">http://www.minkhollow.ca/Courses/461/Notes/Hashing/HashingPartIII.html</a>	
[Lecture 5] Patterns of record access.	<a href="https://www.youtube.com/watch?v=mYVb2LpVp_8">https://www.youtube.com/watch?v=mYVb2LpVp_8</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect23.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect23.pdf</a>	5 <sup>th</sup> May, 2020		
	<a href="https://www.youtube.com/watch?v=BuLZKFbhmh94">https://www.youtube.com/watch?v=BuLZKFbhmh94</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect24.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-01/notes/lect24.pdf</a>	6 <sup>th</sup> May, 2020		
		<a href="https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture13.pdf">https://web.itu.edu.tr/~bkurt/Courses/blg341/lecture13.pdf</a>			
[Lecture 6] Extendible Hashing: How Extendible Hashing Works	<a href="https://www.youtube.com/watch?v=r4GkXtH1la8">https://www.youtube.com/watch?v=r4GkXtH1la8</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-02/lect18.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-02/lect18.pdf</a>	7 <sup>th</sup> May, 2020		
	<a href="https://www.youtube.com/watch?v=Dv0qnewVEI">https://www.youtube.com/watch?v=Dv0qnewVEI</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-02/lect19.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-02/lect19.pdf</a>			
[Lecture 7] Implementation, Deletion	<a href="https://www.youtube.com/watch?v=r4GkXtH1la8">https://www.youtube.com/watch?v=r4GkXtH1la8</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-02/lect18.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-02/lect18.pdf</a>	9 <sup>th</sup> May, 2020		
[Lecture 8] Extendible Hashing performance	<a href="https://www.youtube.com/watch?v=r4GkXtH1la8&amp;t=3">https://www.youtube.com/watch?v=r4GkXtH1la8&amp;t=3</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-02/lect18.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-02/lect18.pdf</a>	12 <sup>th</sup> May, 2020		

			<a href="#">5s</a>		
	[Lecture 9] Extendible Hashing performance (Continue)		<a href="https://www.youtube.com/watch?v=r4GkXtH1la8&amp;t=35s">https://www.youtube.com/watch?v=r4GkXtH1la8&amp;t=35s</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-02/lect19.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-02/lect19.pdf</a>	13 <sup>th</sup> May, 2020
	[Lecture 10] Alternative Approaches.		<a href="https://www.youtube.com/watch?v=YQucr15Jvtg">https://www.youtube.com/watch?v=YQucr15Jvtg</a>	<a href="https://www.site.uottawa.ca/~lucia/courses/2131-02/lect19.pdf">https://www.site.uottawa.ca/~lucia/courses/2131-02/lect19.pdf</a>	14 <sup>th</sup> May, 2020
	Revision Module 5	Mode 1 question of Module 5	VTU Question papers	PPT of Module 5	16 <sup>th</sup> May, 2020

6 <sup>th</sup> Sem ISE 17IS62 File Structures			
Date	Module	Materials	Question papers
19/05/2020	Module 1	Model question paper of Module 1	VTU Question Paper
20/05/2020	Module 2	Model question paper of Module 2	
26/05/2020	Module 3	Model question paper of Module 3	
27/05/2020	Module 4	Model question paper of Module 4	
28/05/2020	Module 5	Model question paper of Module 5	
30/05/2020	Module 1	Model question paper of Module 5	
2/06/2020	Module 2	Revision	
3/06/2020	Module 3	Revision	
4/06/2020	Module 4	Revision	
6/06/2020	Module 5	Revision	
9/06/2020	Module 1,2	Revision	
10/06/2020	Module 3, 4, 5	Revision	

SOFTWARE TESTING (17IS63)					
Modules	Topics[1hr each]	PPT	Video links	E-materials	Date & Duration
<b>MODULE 4</b>					
	<b>Lecture1: Process Framework:</b> Basic principles: Sensitivity, redundancy, restriction		<a href="https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe">https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe</a>		16 <sup>th</sup> March 2020
	<b>Lecture 2:</b> partition, visibility, Feedback				17 <sup>th</sup> March 2020

<b>Module 4: Process Framework, Planning and Monitoring the Process, Do documenting Analysis and Test</b>	<b>Lecture 3:</b> the quality process,	<a href="https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe">https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe</a>	<a href="https://drive.google.com/open?id=110qVhWLC41VUZnVVR">https://drive.google.com/open?id=110qVhWLC41VUZnVVR</a>	19 <sup>th</sup> March 2020	
	<b>Lecture 4:</b> Planning and monitoring, Quality goals,	<a href="https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe">https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe</a>	<a href="https://www.youtube.com/watch?v=7ZOPJD106dA">https://www.youtube.com/watch?v=7ZOPJD106dA</a> <a href="https://www.youtube.com/watch?v=i25zsNeiT2k">https://www.youtube.com/watch?v=i25zsNeiT2k</a>	<a href="https://drive.google.com/open?id=110qVhWLC41VUZnVVR">https://drive.google.com/open?id=110qVhWLC41VUZnVVR</a>	20 <sup>th</sup> March 2020
	<b>Lecture 5:</b> Dependability properties, Analysis Testing, Improving the process, Organizational factors.	<a href="https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe">e</a>	Refer ppt's <a href="https://www.youtube.com/watch?v=Oa27Xej1KdY">https://www.youtube.com/watch?v=Oa27Xej1KdY</a>		23 <sup>rd</sup> March 2020
	<b>Lecture 6: Planning and Monitoring the Process:</b> Quality and process, Test and analysis strategies and plans, Risk planning,		<b>Risk planning:</b> <a href="https://www.youtube.com/watch?v=5BFn7tQSW-w">https://www.youtube.com/watch?v=5BFn7tQSW-w</a>		24 <sup>th</sup> March 2020
	<b>Lecture 7:</b> monitoring the process, Improving the process, the quality team		<a href="https://www.youtube.com/watch?v=KOsdXahgwvQ">https://www.youtube.com/watch?v=KOsdXahgwvQ</a> ODC: <a href="https://www.youtube.com/watch?v=mno4pQMqtBM">https://www.youtube.com/watch?v=mno4pQMqtBM</a>		26 <sup>th</sup> March 2020
	<b>Lecture 8: Documenting Analysis and Test:</b> Organizing documents, Test strategy document		<a href="https://www.youtube.com/watch?v=LO9Hs09BbZQ">https://www.youtube.com/watch?v=LO9Hs09BbZQ</a> Test strategy: <a href="https://www.youtube.com/watch?v=rDiItQObvII">https://www.youtube.com/watch?v=rDiItQObvII</a> <a href="https://www.youtube.com/watch?v=6fEuSsfSJ5g">https://www.youtube.com/watch?v=6fEuSsfSJ5g</a> <a href="https://www.youtube.com/watch?v=KOsdXahgwvQ">https://www.youtube.com/watch?v=KOsdXahgwvQ</a>		27 <sup>th</sup> March 2020
	<b>Lecture 9:</b> Analysis and test plan, Test design specifications documents		<a href="https://www.youtube.com/watch?v=S2_AJP9Oeg0">https://www.youtube.com/watch?v=S2_AJP9Oeg0</a> Test plan: <a href="https://www.youtube.com/watch?v=VPnWoroH7yA&amp;pbjreload=10">https://www.youtube.com/watch?v=VPnWoroH7yA&amp;pbjreload=10</a>		30 <sup>th</sup> March 2020
	<b>Lecture 10:</b> Test and analysis reports.		<a href="https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe">https://drive.google.com/open?id=1j5sSnvU-Rk0xOGPyJkAjLbRe7JxJuBKe</a>		31 <sup>st</sup> March 2020

**MODULE 5**

<b>Module 5: Integration and Component-Based Software Testing, Levels of Testing, Integration Testing</b>	<b>Lecture 1:</b> Overview, Integration testing strategies	<a href="https://drive.google.com/open?id=1IKKHiNgEAg2vYXKi37H7-i4CJEPc9jIi">https://drive.google.com/open?id=1IKKHiNgEAg2vYXKi37H7-i4CJEPc9jIi</a>	Integration testing: <a href="https://youtu.be/QYCaaNz8emY">https://youtu.be/QYCaaNz8emY</a> <a href="https://youtu.be/SxXd60UNIIA">https://youtu.be/SxXd60UNIIA</a>	<a href="https://drive.google.com/open?id=1gP10DMOYyAkuWU0x4sHDqXiTBPIMpLVY">https://drive.google.com/open?id=1gP10DMOYyAkuWU0x4sHDqXiTBPIMpLVY</a> and <a href="https://drive.google.com/open?id=15SFfhfTInD-2qKi0Rq8Rz-YAJ-wNV">https://drive.google.com/open?id=15SFfhfTInD-2qKi0Rq8Rz-YAJ-wNV</a>	2 <sup>nd</sup> April 2020
	<b>Lecture 2:</b> Testing components and assemblies				3 <sup>rd</sup> April 2020
	<b>Lecture 3:</b> System, Testing :Overview, System testing		system testing: <a href="https://www.youtube.com/watch?v=3IOjtsA2Kk">https://www.youtube.com/watch?v=3IOjtsA2Kk</a> <a href="https://www.youtube.com/watch?v=nhbQfEmPTPE">https://www.youtube.com/watch?v=nhbQfEmPTPE</a>		7 <sup>th</sup> April 2020
	<b>Lecture 4:</b> Acceptance testing, Usability		Acceptance testing : <a href="https://www.youtube.com/watch?v=N8-qNMHOVyw">https://www.youtube.com/watch?v=N8-qNMHOVyw</a> <a href="https://www.youtube.com/watch?v=rj4q7F2DgJ0">https://www.youtube.com/watch?v=rj4q7F2DgJ0</a>		9 <sup>th</sup> April 2020
	<b>Lecture 5:</b> Regression testing, Regression test selection techniques		Regression testing : <a href="https://www.youtube.com/watch?v=4MtsWBxCPHw">https://www.youtube.com/watch?v=4MtsWBxCPHw</a> <a href="https://www.youtube.com/watch?v=0wHKVXbsppw">https://www.youtube.com/watch?v=0wHKVXbsppw</a> <a href="https://www.youtube.com/watch?v=AU0jji1-jSg">https://www.youtube.com/watch?v=AU0jji1-jSg</a>		13 <sup>th</sup> April 2020
	<b>Lecture 6:</b> Test case prioritization and selective execution. Traditional view of testing levels		<a href="https://drive.google.com/open?id=1IKKHiNgEAg2vYXKi37H7-i4CJEPc9jIi">https://drive.google.com/open?id=1IKKHiNgEAg2vYXKi37H7-i4CJEPc9jIi</a>		16 <sup>th</sup> April 2020
	<b>Lecture 7:</b> Alternative life- cycle models, The SATM system		<a href="https://www.youtube.com/watch?v=9g3OZjNLVaY">https://www.youtube.com/watch?v=9g3OZjNLVaY</a> <a href="https://www.youtube.com/watch?v=ymQpkL1IRkI">https://www.youtube.com/watch?v=ymQpkL1IRkI</a>		17 <sup>th</sup> April 2020
	<b>Lecture 8:</b>  Separating integration and system testing,		<a href="https://drive.google.com/open?id=1IKKHiNgEAg2vYXKi37H7-i4CJEPc9jIi">https://drive.google.com/open?id=1IKKHiNgEAg2vYXKi37H7-i4CJEPc9jIi</a>		20 <sup>th</sup> April 2020
	<b>Lecture 9:</b> A closer look at the SATM system, Decomposition- based		Refer ppt <a href="https://www.youtube.com/watch?v=4_Ik8eb2ln0">https://www.youtube.com/watch?v=4_Ik8eb2ln0</a>		21 <sup>st</sup> April 2020
	<b>Lecture 10:</b> call graph-based, Path-based integrations.		Refer ppt <a href="https://www.youtube.com/watch?v=6H7Ukc6bm9Y">https://www.youtube.com/watch?v=6H7Ukc6bm9Y</a>		23 <sup>rd</sup> April 2020

**MODULE 3**

<b>Module 3: Structural Testing, Test Execution</b>	<b>Lecture 1:</b> Structural Testing: Overview, Statement testing		<a href="https://www.youtube.com/watch?v=vhgkASS0fZs">https://www.youtube.com/watch?v=vhgkASS0fZs</a>		24 <sup>th</sup> April 2020
	<b>Lecture 2:</b> Branch testing, Condition testing		<a href="https://www.youtube.com/watch?v=5f1JZqSpMls">https://www.youtube.com/watch?v=5f1JZqSpMls</a>		27 <sup>th</sup> April 2020
	<b>Lecture 3:</b> Path testing: DD paths		<a href="https://www.youtube.com/watch?v=TAFhCV721tY">https://www.youtube.com/watch?v=TAFhCV721tY</a> <a href="https://slideplayer.com/slides/7441278/">https://slideplayer.com/slides/7441278/</a> <a href="https://slideplayer.com/slides/9681922/">https://slideplayer.com/slides/9681922/</a>		28 <sup>th</sup> April 2020
	<b>Lecture 4:</b> Test coverage metrics, Basis path testing, guidelines, and observations,	<a href="https://drive.google.com/open?id=1gRrX4AU-SryHoNrfn1UuapTuFz_Bugk0">https://drive.google.com/open?id=1gRrX4AU-SryHoNrfn1UuapTuFz_Bugk0</a>	Test coverage metrics: <a href="https://www.youtube.com/watch?v=KWJNwYF6LbI">https://www.youtube.com/watch?v=KWJNwYF6LbI</a>  <a href="https://www.youtube.com/watch?v=Bx-UsvnGnrY">https://www.youtube.com/watch?v=Bx-UsvnGnrY</a>  <a href="https://www.youtube.com/watch?v=txjahdupmJo">https://www.youtube.com/watch?v=txjahdupmJo</a>  <a href="https://slideplayer.com/slides/8569084/">https://slideplayer.com/slides/8569084/</a>  <a href="https://www.youtube.com/watch?v=7yP4yA9DeTs">https://www.youtube.com/watch?v=7yP4yA9DeTs</a> Lab: <a href="https://www.youtube.com/watch?v=n7nDVI8ikfw">https://www.youtube.com/watch?v=n7nDVI8ikfw</a> <a href="https://www.youtube.com/watch?v=rEgxNwTH7cE">https://www.youtube.com/watch?v=rEgxNwTH7cE</a>  Basis path testing: <a href="https://drive.google.com/open?id=1YXqrOlvss6gGRkrRzDG_WghhsUCow0p&amp;authuser=1">https://drive.google.com/open?id=1YXqrOlvss6gGRkrRzDG_WghhsUCow0p&amp;authuser=1</a>	<b>Textbook pdf and Notes will be shared in google classroom</b>	30 <sup>th</sup> April 2020
	<b>Lecture 5:</b> Data –Flow testing: Definition-Use testing, Slice based testing, Guidelines and observations.		Slice based testing: <a href="https://www.youtube.com/watch?v=phEOIPo34kM">https://www.youtube.com/watch?v=phEOIPo34kM</a>  Data –Flow testing: <a href="https://drive.google.com/open?id=15rXoJRWddVsy4dicMut9fCZAyedjIRs7&amp;authuser=1">https://drive.google.com/open?id=15rXoJRWddVsy4dicMut9fCZAyedjIRs7&amp;authuser=1</a>		4 <sup>th</sup> May 2020
	<b>Lecture 6:</b> <b>Test Execution:</b> Overview of test execution		<a href="https://www.youtube.com/watch?v=0_ljP6t1jTg">https://www.youtube.com/watch?v=0_ljP6t1jTg</a>		5 <sup>th</sup> May 2020

	<b>Lecture 7:</b> from test case specification to test cases, Scaffolding	<a href="https://drive.google.com/open?id=1gRrX4AU-SryHoNrfn1UuapTuFz_Bugk0">https://drive.google.com/open?id=1gRrX4AU-SryHoNrfn1UuapTuFz_Bugk0</a>	7 <sup>th</sup> May 2020
	<b>Lecture 8:</b> Generic versus specific scaffolding	<a href="https://drive.google.com/open?id=1gRrX4AU-SryHoNrfn1UuapTuFz_Bugk0">https://drive.google.com/open?id=1gRrX4AU-SryHoNrfn1UuapTuFz_Bugk0</a>	8 <sup>th</sup> May 2020
	<b>Lecture 9:</b> Test oracles, Self-checks as oracles	<a href="https://www.youtube.com/watch?v=cquyBmlh0e4">https://www.youtube.com/watch?v=cquyBmlh0e4</a>	11 <sup>th</sup> May 2020
	<b>Lecture 10:</b> Capture and replay	<a href="https://www.youtube.com/watch?v=0dXYG-1VJgI">https://www.youtube.com/watch?v=0dXYG-1VJgI</a>	12 <sup>th</sup> May 2020
<b>Revision of Module 3,4,5</b>	Refer the same above link given for Module 3,4,5		14 <sup>th</sup> May 2020 to 15 <sup>th</sup> June 2020

Operating Systems(17CS64)					
Modules	Topics[1hr each]	PPT	Video links	E-materials	Date & Duration
<b>Module 2: Multi-threaded Programming, Process Scheduling, Process Synchronization. ( 50% portion covered)</b>	<b>Lecture 1:</b> Scheduling Algorithms- Priority, Round Robin, Multilevel Queue and Multilevel Feedback queue Scheduling	<b>PPT will be mailed</b>	<a href="https://www.youtube.com/watch?v=Vjr16xDgi4s&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=12">https://www.youtube.com/watch?v=Vjr16xDgi4s&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=12</a> (Already done this topic in class) <a href="https://www.youtube.com/watch?v=nc6LTW4KfB0&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=13">https://www.youtube.com/watch?v=nc6LTW4KfB0&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=13</a> <a href="https://www.youtube.com/watch?v=Z2nxQbJxn7g&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=14">https://www.youtube.com/watch?v=Z2nxQbJxn7g&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=14</a>	<a href="https://drive.google.com/open?id=1j7zdy5thvUXIK0LvIX9caYzrYD1wLK2rYD1wLK2">https://drive.google.com/open?id=1j7zdy5thvUXIK0LvIX9caYzrYD1wLK2rYD1wLK2</a> <b>C</b>  <a href="https://drive.google.com/open?id=1iuwO0YqM1Jlz4CS8zA7pJ4jdFfGFBja">https://drive.google.com/open?id=1iuwO0YqM1Jlz4CS8zA7pJ4jdFfGFBja</a>	26 <sup>th</sup> March 2020
	<b>Lecture 2:</b> Multiple-Processor Scheduling, Thread Scheduling		<a href="https://www.youtube.com/watch?v=aKjDqOguxjA">https://www.youtube.com/watch?v=aKjDqOguxjA</a> <a href="https://www.youtube.com/watch?v=5e01cL_MLRQ">https://www.youtube.com/watch?v=5e01cL_MLRQ</a> <a href="https://www.youtube.com/watch?v=4kfiQEA7Qj8&amp;t=190s">https://www.youtube.com/watch?v=4kfiQEA7Qj8&amp;t=190s</a>		27 <sup>th</sup> March 2020
	<b>Lecture 3:</b> Process Synchronization, Critical Section  Problem,  Peterson's Solution		<a href="https://www.youtube.com/watch?v=HghFvnROYuw&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=15">https://www.youtube.com/watch?v=HghFvnROYuw&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=15</a> <a href="https://www.youtube.com/watch?v=JIGcP-JNxXk&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=16">https://www.youtube.com/watch?v=JIGcP-JNxXk&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=16</a> <a href="https://www.youtube.com/watch?v=uj-zhs7cUSI">https://www.youtube.com/watch?v=uj-zhs7cUSI</a>		28 <sup>th</sup> March 2020
	<b>Lecture 4:</b> Synchronization		<a href="https://www.youtube.com/watch?v=UN1y6FFXgIg">https://www.youtube.com/watch?v=UN1y6FFXgIg</a>		29 <sup>th</sup> March 2020



	hardware, Semaphores		<a href="https://www.youtube.com/watch?v=e2ujg5K310s">https://www.youtube.com/watch?v=e2ujg5K310s</a> <a href="https://www.youtube.com/watch?v=oFhYZ5Y3Pq0">https://www.youtube.com/watch?v=oFhYZ5Y3Pq0</a> <a href="https://www.youtube.com/watch?v=uP9ICOH0Xsw&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=20">https://www.youtube.com/watch?v=uP9ICOH0Xsw&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=20</a>		
	<b>Lecture 5:</b> Classical problems of synchronization, Monitors		<a href="https://www.youtube.com/watch?v=YS6aQgk8Sg0&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=21">https://www.youtube.com/watch?v=YS6aQgk8Sg0&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=21</a> <a href="https://www.youtube.com/watch?v=9f1oOMX3mP4&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=22">https://www.youtube.com/watch?v=9f1oOMX3mP4&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=22</a> <a href="https://www.youtube.com/watch?v=Lp-SqOuX2Eo&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=23">https://www.youtube.com/watch?v=Lp-SqOuX2Eo&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=23</a> <a href="https://www.youtube.com/watch?v=GgrSEegwshk&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=24">https://www.youtube.com/watch?v=GgrSEegwshk&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=24</a> <a href="https://www.youtube.com/watch?v=LLltjyKQ900">https://www.youtube.com/watch?v=LLltjyKQ900</a>		30 <sup>th</sup> March 2020
<b>Module 3: Deadlocks, Memory Management</b>	<b>Lecture 1:</b> System model, deadlock characterization, methods for handling deadlocks.	<b>PPT will be mailed</b>	<a href="https://www.youtube.com/watch?v=zb2JDY-vNI0&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=25">https://www.youtube.com/watch?v=zb2JDY-vNI0&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=25</a> <a href="https://www.youtube.com/watch?v=-VksGXfiK7k&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=26">https://www.youtube.com/watch?v=-VksGXfiK7k&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=26</a>	<a href="https://drive.google.com/open?id=1j7zdy5thvUXIK0LyjX9caYzrYD1wLK2C">https://drive.google.com/open?id=1j7zdy5thvUXIK0LyjX9caYzrYD1wLK2C</a>  <a href="https://drive.google.com/open?id=1iuwO0YqM1Jlz4CS8zA7pJ4jdFfGFBJa">https://drive.google.com/open?id=1iuwO0YqM1Jlz4CS8zA7pJ4jdFfGFBJa</a>	31 <sup>st</sup> March 2020
	<b>Lecture 2:</b> Deadlock prevention, deadlock avoidance.		<a href="https://www.youtube.com/watch?v=_sKaad5GrYc&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=27">https://www.youtube.com/watch?v=_sKaad5GrYc&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=27</a>		1 <sup>st</sup> April 2020
	<b>Lecture 3:</b> Deadlock detection		<a href="https://www.youtube.com/watch?v=2St4eKZ_VVQ&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=31">https://www.youtube.com/watch?v=2St4eKZ_VVQ&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=31</a> <a href="https://www.youtube.com/watch?v=AGZr5LaiyMg">https://www.youtube.com/watch?v=AGZr5LaiyMg</a> <a href="https://www.youtube.com/watch?v=13qiXk63MaM">https://www.youtube.com/watch?v=13qiXk63MaM</a>		2 <sup>nd</sup> April 2020
	<b>Lecture 4:</b> Recovery from deadlock		<a href="https://www.youtube.com/watch?v=KBFrWu_gejE&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=32">https://www.youtube.com/watch?v=KBFrWu_gejE&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=32</a> <a href="https://www.youtube.com/watch?v=kOYTmxKpIms">https://www.youtube.com/watch?v=kOYTmxKpIms</a>		3 <sup>rd</sup> April 2020
	<b>Lecture 5:</b> Memory		<a href="https://www.youtube.com/watch?">https://www.youtube.com/watch?</a>		4 <sup>th</sup> April 2020

	Management Strategies, Background		<a href="https://www.youtube.com/watch?v=UDPYpf-nsDY">v=UDPYpf-nsDY</a> <a href="https://www.youtube.com/watch?v=W0068fRJTGO">https://www.youtube.com/watch?v=W0068fRJTGO</a>		
	<b>Lecture 6:</b> Swapping		<a href="https://www.youtube.com/watch?v=Qt49Hzh_TDc">https://www.youtube.com/watch?v=Qt49Hzh_TDc</a> <a href="https://www.youtube.com/watch?v=ZN-baY3x85o">https://www.youtube.com/watch?v=ZN-baY3x85o</a>		5 <sup>th</sup> April 2020
	<b>Lecture 7:</b> Contiguous memory allocation.		<a href="https://www.youtube.com/watch?v=DiNvM5EXHpA">https://www.youtube.com/watch?v=DiNvM5EXHpA</a> <a href="https://www.youtube.com/watch?v=AbxSIVZUn60">https://www.youtube.com/watch?v=AbxSIVZUn60</a>		6 <sup>th</sup> April 2020
	<b>Lecture 8:</b> Paging		<a href="https://www.youtube.com/watch?v=kt4LkPFt8Zg">https://www.youtube.com/watch?v=kt4LkPFt8Zg</a> <a href="https://www.youtube.com/watch?v=j0IqYWYBAKE">https://www.youtube.com/watch?v=j0IqYWYBAKE</a> <a href="https://www.youtube.com/watch?v=R-WgaQQHSPw">https://www.youtube.com/watch?v=R-WgaQQHSPw</a>		7 <sup>th</sup> April 2020
	<b>Lecture 9:</b> Structure of page table		<a href="https://www.youtube.com/watch?v=Sa3Z-aFINuE">https://www.youtube.com/watch?v=Sa3Z-aFINuE</a> <a href="https://www.youtube.com/watch?v=6gX_28Nlazc">https://www.youtube.com/watch?v=6gX_28Nlazc</a> <a href="https://www.youtube.com/watch?v=NyWcVoKjDu4">https://www.youtube.com/watch?v=NyWcVoKjDu4</a> <a href="https://www.youtube.com/watch?v=arluMrC06fA">https://www.youtube.com/watch?v=arluMrC06fA</a>		8 <sup>th</sup> April 2020
	<b>Lecture 10:</b> Segmentation		<a href="https://www.youtube.com/watch?v=xD5PB_g1rIE">https://www.youtube.com/watch?v=xD5PB_g1rIE</a> <a href="https://www.youtube.com/watch?v=H7cJsF79iew">https://www.youtube.com/watch?v=H7cJsF79iew</a> <a href="https://www.youtube.com/watch?v=tL7L1c7rtXg">https://www.youtube.com/watch?v=tL7L1c7rtXg</a>		9 <sup>th</sup> April 2020
<b>Modules</b>	<b>Topics[1hr each]</b>	<b>PPT</b>	<b>Video links</b>	<b>E-materials</b>	<b>Date &amp; Duration</b>
<b>Module 4: Virtual Memory Management:</b>	<b>Lecture 1:</b> Background	<b>PPT will be shared in Google class</b>	<a href="https://www.youtube.com/watch?v=uj0J7J_19cY&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=49">https://www.youtube.com/watch?v=uj0J7J_19cY&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=49</a> <a href="https://www.youtube.com/watch?v=qn8ohZXjW6M">https://www.youtube.com/watch?v=qn8ohZXjW6M</a> <a href="https://www.youtube.com/watch?v=NPhcwfnyZd8">https://www.youtube.com/watch?v=NPhcwfnyZd8</a> <a href="https://www.youtube.com/watch?v=qlH4-oHnBb8">https://www.youtube.com/watch?v=qlH4-oHnBb8</a>	<a href="https://drive.google.com/open?id=1j7zdy5thvUXIK0LyjX9caYzrYD1wLK2C">https://drive.google.com/open?id=1j7zdy5thvUXIK0LyjX9caYzrYD1wLK2C</a>	13 <sup>th</sup> April 2020 1 Day
	<b>Lecture 2:</b> Demand paging; Copy-on-write		<a href="https://www.youtube.com/watch?v=aOz3YMfEo1o&amp;list=PLrjkTqI3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=22">https://www.youtube.com/watch?v=aOz3YMfEo1o&amp;list=PLrjkTqI3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=22</a> <a href="https://www.youtube.com/watch?v=k2mruDlTkWe&amp;list=PLrjkTqI3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=23">https://www.youtube.com/watch?v=k2mruDlTkWe&amp;list=PLrjkTqI3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=23</a> <a href="https://www.youtube.com/watch?v=2YbZD3GHwIU&amp;list=PLrjkTqI3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=24">https://www.youtube.com/watch?v=2YbZD3GHwIU&amp;list=PLrjkTqI3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=24</a>	<a href="https://drive.google.com/open?id=1iuwO0YqM1JlZ4CS8zA7pJ4jdFf_GFBJa">https://drive.google.com/open?id=1iuwO0YqM1JlZ4CS8zA7pJ4jdFf_GFBJa</a>	17 <sup>th</sup> -18 <sup>th</sup> April 2020 2 Day

		<a href="https://www.youtube.com/watch?v=0Bsquo5iaUI">https://www.youtube.com/watch?v=0Bsquo5iaUI</a>	
<b>Lecture 3:</b> Page replacement;		<a href="https://www.youtube.com/watch?v=lgmws9oraXE&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=50">https://www.youtube.com/watch?v=lgmws9oraXE&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=50</a>  <a href="https://www.youtube.com/watch?v=6VOYx3-JOnM">https://www.youtube.com/watch?v=6VOYx3-JOnM</a> <a href="https://www.youtube.com/watch?v=16kaPQtYo28">https://www.youtube.com/watch?v=16kaPQtYo28</a> <a href="https://www.youtube.com/watch?v=u23ROrISK_g">https://www.youtube.com/watch?v=u23ROrISK_g</a> <a href="https://www.youtube.com/watch?v=jeJIKKQcqpU&amp;list=PLrjkTql3jnm9U1tSPnPOWQGIGNkUwBFv-&amp;index=28">https://www.youtube.com/watch?v=jeJIKKQcqpU&amp;list=PLrjkTql3jnm9U1tSPnPOWQGIGNkUwBFv-&amp;index=28</a>	20 <sup>th</sup> April 2020 1 Day
<b>Lecture 4:</b> Allocation of frames Thrashing.		<a href="https://www.youtube.com/watch?v=B5i-IAuYO6g">https://www.youtube.com/watch?v=B5i-IAuYO6g</a> <a href="https://www.youtube.com/watch?v=mIJDC-u8JU&amp;t=2s">https://www.youtube.com/watch?v=mIJDC-u8JU&amp;t=2s</a> <a href="https://www.youtube.com/watch?v=j2QujhrwLYA&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=58&amp;pbjreload=10">https://www.youtube.com/watch?v=j2QujhrwLYA&amp;list=PLWPirh4EWFpGkHH9JTKH9KsnfAA471Fhy&amp;index=58&amp;pbjreload=10</a> <a href="https://www.youtube.com/watch?v=0Tg88zYHh4Y&amp;list=RDCMU C4EX8zLiBUalk704IX_zuIQ&amp;st art_radio=1&amp;t=13">https://www.youtube.com/watch?v=0Tg88zYHh4Y&amp;list=RDCMU C4EX8zLiBUalk704IX_zuIQ&amp;st art_radio=1&amp;t=13</a>	21 <sup>st</sup> April 2020 1 Day
<b>Lecture 5:</b> File System, Implementation of File System : File concept; Access methods		<a href="https://www.youtube.com/watch?v=0vno0Ra0wEg">https://www.youtube.com/watch?v=0vno0Ra0wEg</a>	24 <sup>th</sup> April 2020 1 Day
<b>Lecture 6:</b> Directory structure; File system mounting		<a href="https://www.youtube.com/watch?v=eK_mEHG20PA">https://www.youtube.com/watch?v=eK_mEHG20PA</a> <a href="https://www.youtube.com/watch?v=QT1mBAJBuoA">https://www.youtube.com/watch?v=QT1mBAJBuoA</a>	25 <sup>th</sup> April 2020 1 Day
<b>Lecture 7:</b> File sharing; Protection:		<a href="https://www.youtube.com/watch?v=amEquisuNYQM">https://www.youtube.com/watch?v=amEquisuNYQM</a> <a href="https://www.youtube.com/watch?v=yzWQ3_5ttmE">https://www.youtube.com/watch?v=yzWQ3_5ttmE</a>	27 <sup>th</sup> April 2020 1 Day
<b>Lecture 8:</b> File system structure; File system implementation		<a href="https://www.youtube.com/watch?v=t8Rs9AbqHUc">https://www.youtube.com/watch?v=t8Rs9AbqHUc</a>	28 <sup>th</sup> April 2020 1 Day
<b>Lecture 9:</b> Directory implementation; Allocation methods		<a href="https://www.youtube.com/watch?v=-KKj3WF1MFM">https://www.youtube.com/watch?v=-KKj3WF1MFM</a> <a href="https://www.youtube.com/watch?v=gK6L3v1b8AM">https://www.youtube.com/watch?v=gK6L3v1b8AM</a>	2 <sup>nd</sup> May 2020 1 Day
<b>Lecture 10:</b>		<a href="https://www.youtube.com/watch?">https://www.youtube.com/watch?</a>	4 <sup>th</sup> May 2020

	Free space management		<a href="https://www.youtube.com/watch?v=hDBFSQRHPAU&amp;t=2s">v=hDBFSQRHPAU&amp;t=2s</a>		1 Day
<b>Module 5: Secondary Storage Structures, Protection</b>	<b>Lecture 1:</b> Mass storage structures;	<b>PPT has been shared in Google class</b>	<a href="https://www.youtube.com/watch?v=OHJ9NT8aPcA">https://www.youtube.com/watch?v=OHJ9NT8aPcA</a>		5 <sup>th</sup> May 2020 1 Day
	<b>Lecture 2:</b> Disk structure; Disk attachment; Disk scheduling		<a href="https://www.youtube.com/watch?v=ZjMwUhapSEM&amp;t=67s">https://www.youtube.com/watch?v=ZjMwUhapSEM&amp;t=67s</a> <a href="https://www.youtube.com/watch?v=Qow06ontwuc&amp;list=PLrjkTql3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=70">https://www.youtube.com/watch?v=Qow06ontwuc&amp;list=PLrjkTql3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=70</a>		8 <sup>th</sup> May 2020 1 Day
	<b>Lecture 3:</b> Disk management; Swap space management.		<a href="https://www.youtube.com/watch?v=ZjMwUhapSEM&amp;t=67s">https://www.youtube.com/watch?v=ZjMwUhapSEM&amp;t=67s</a> <a href="https://www.youtube.com/watch?v=f3F4-oxjGNQ&amp;list=PLrjkTql3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=69">https://www.youtube.com/watch?v=f3F4-oxjGNQ&amp;list=PLrjkTql3jnm9U1tSPnPQWQGIGNkUwBFv-&amp;index=69</a> <a href="https://www.youtube.com/watch?v=Iz-Zw8GNxww&amp;list=PL9P1J9q3_9fOTGzsBCn0T2T5vHLdBcDq_&amp;index=32">https://www.youtube.com/watch?v=Iz-Zw8GNxww&amp;list=PL9P1J9q3_9fOTGzsBCn0T2T5vHLdBcDq_&amp;index=32</a>		9 <sup>th</sup> May 2020 1 Day
	<b>Lecture 4:</b> Protection: Goals of protection, Principles of protection		<a href="https://www.youtube.com/watch?v=O_WbprDZMDw">https://www.youtube.com/watch?v=O_WbprDZMDw</a> <a href="https://www.youtube.com/watch?v=uFIzD1k5S5U">https://www.youtube.com/watch?v=uFIzD1k5S5U</a> <a href="https://www.youtube.com/watch?v=uFIzD1k5S5U&amp;list=PLV8vIYTITIdSnZ67NQObdXE0gFjrZPrNKHp&amp;index=42">https://www.youtube.com/watch?v=uFIzD1k5S5U&amp;list=PLV8vIYTITIdSnZ67NQObdXE0gFjrZPrNKHp&amp;index=42</a>		11 <sup>th</sup> May 2020 1 Day
	<b>Lecture 5:</b> Domain of protection, Access matrix, Implementation of access matrix		<a href="https://www.youtube.com/watch?v=2YIhzk7tJl8&amp;list=PLV8vIYTITIdSnZ67NQObdXE0gFjrZPrNKHp&amp;index=43">https://www.youtube.com/watch?v=2YIhzk7tJl8&amp;list=PLV8vIYTITIdSnZ67NQObdXE0gFjrZPrNKHp&amp;index=43</a> <a href="https://www.youtube.com/watch?v=HHC1jpdxuWM&amp;t=3s">https://www.youtube.com/watch?v=HHC1jpdxuWM&amp;t=3s</a>		12 <sup>th</sup> May 2020 1 Day
	<b>Lecture 6:</b> Access control, Revocation of access rights,		<a href="https://www.youtube.com/watch?v=2QTFiQVdrgg">https://www.youtube.com/watch?v=2QTFiQVdrgg</a> <a href="https://www.youtube.com/watch?v=OPmm0NYYVP4">https://www.youtube.com/watch?v=OPmm0NYYVP4</a>		15 <sup>th</sup> May 2020 1 Day
	<b>Lecture 7:</b> Capability- Based systems. Case Study: The Linux Operating System		<a href="https://www.youtube.com/watch?v=TTBkc5eiju4">https://www.youtube.com/watch?v=TTBkc5eiju4</a>		16 <sup>th</sup> May 2020 1 Day
	<b>Lecture 8:</b> Linux history; Design principles; Kernel modules		<a href="https://www.youtube.com/watch?v=-O6GsrMouGy">https://www.youtube.com/watch?v=-O6GsrMouGy</a> <a href="https://www.youtube.com/watch?v=o768iZKtzBA">https://www.youtube.com/watch?v=o768iZKtzBA</a>		18 <sup>th</sup> May 2020 1 Day
	<b>Lecture 9:</b> Process management; Scheduling; Memory Management		<a href="https://www.youtube.com/watch?v=elzvHG6M-eU">https://www.youtube.com/watch?v=elzvHG6M-eU</a> <a href="https://www.youtube.com/watch?v=JhmoI9nTet4">https://www.youtube.com/watch?v=JhmoI9nTet4</a> <a href="https://www.youtube.com/watch?v=UDPYpf-nsDY&amp;t=49s">https://www.youtube.com/watch?v=UDPYpf-nsDY&amp;t=49s</a>		19 <sup>th</sup> May 2020 1 Day

	<b>Lecture 10:</b> File systems, Input and output; Inter-process communication.		<a href="https://www.youtube.com/watch?v=Gg8yOzP8ENY">https://www.youtube.com/watch?v=Gg8yOzP8ENY</a> <a href="https://www.youtube.com/watch?v=fSMVWmGPqIM">https://www.youtube.com/watch?v=fSMVWmGPqIM</a> <a href="https://www.youtube.com/watch?v=Sa2-yABWEC4">https://www.youtube.com/watch?v=Sa2-yABWEC4</a>		20 <sup>th</sup> May 2020 1 Day
Module 2	Revision Module 2 by giving questions to solve				25 <sup>th</sup> May 2020
Module 3	Revision Module 3 by giving questions to solve				26 <sup>th</sup> May 2020
Module 4	Revision Module 4 by giving questions to solve				28 <sup>th</sup> May 2020
Module 5	Revision Module 5 by giving questions to solve				30 <sup>th</sup> May 2020
Module 4 & Module 5	Revision on Demand paging; Copy-on-write, Page replacement, Allocation of frames Thrashing.				1 <sup>st</sup> June 2020
	Revision on File System, Implementation of File System File system: File Concept, Access methods, Directory Structure, File system mounting, File sharing.				2 <sup>nd</sup> June 2020
	Revision on Protection: Implementing File system, File system structure File system implementation, Directory implementation; Allocation methods, Free space management				4 <sup>th</sup> June 2020
	Revision on Mass storage structures, Disk Structure, Disk attachment; Disk scheduling, Disk management, Swap space Management, Protection: Goals of protection.				6 <sup>th</sup> June 2020

	Revision on Principles of protection, Domain of protection, Access matrix, Implementation of access matrix, Access control, Revocation of access rights, Capability-Based systems. Case Study: The Linux Operating System				8 <sup>th</sup> June 2020
	Revision on Linux history; Design principles; Kernel, Scheduling; Memory Management, File systems, Input and output; Inter-process communication.				9 <sup>th</sup> June 2020

**NAME OF THE SUBJECT: DATAMINING AND DATAWAREHOUSING**  
**SUBJECT CODE:17CS651**

Modules	Topics 1 Hour Each	Ppt's	Video Links	E- Materials	Date And Duration
	Association Analysis: Problem Definition [Lecturer 1]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=QN3_wxqnSlw">https://www.youtube.com/watch?v=QN3_wxqnSlw</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	26th– 27th March, 2020 2 Days
	FrequentItem set Generation [Lecturer 2]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=-5Uia2a5jxc&amp;t=213s">https://www.youtube.com/watch?v=-5Uia2a5jxc&amp;t=213s</a> <a href="https://www.youtube.com/watch?v=h_13b2CIQ_o">https://www.youtube.com/watch?v=h_13b2CIQ_o</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	27th- 28th March, 2020 2 Days
	Rule		<a href="https://www.youtube.com/watch?v=gu">https://www.youtube.com/watch?v=gu</a>	<a href="https://drive">https://drive</a>	28th- 30th



<b>Module-3</b>  <b>Association Analysis</b>	generation [Lecturer 4]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=h_13b2CIQ_o">VvtZ7ZClw</a>  <a href="https://www.youtube.com/watch?v=h_13b2CIQ_o">https://www.youtube.com/watch?v=h_13b2CIQ_o</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	March, 2020 2 Days
	Alternative Methods for Generating Frequent Item sets [Lecturer 5]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=-5Uia2a5jxc">https://www.youtube.com/watch?v=-5Uia2a5jxc</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	29th- 30th March, 2020 2 Days
	FP-Growth Algorithm [Lecturer 6]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=yCbanklouUU">https://www.youtube.com/watch?v=yCbanklouUU</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	30th- 31th March, 2020 2 Days
	FP-Growth Algorithm PROBLEMS [Lecturer 7]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=yCbanklouUU">https://www.youtube.com/watch?v=yCbanklouUU</a> refer notes and ppt's for extra problems	<a href="https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	1th- 2th April, 2020 2 Days
	[Lecturer 8]	<b>Will Be Mailed To Group Id</b>	Refer notes and ppt's	<a href="https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	2th- 3th April, 2020 2 Day
<b>Modules</b>	<b>Topics 1 Hour Each</b>	<b>Ppt's</b>	<b>Video Links</b>	<b>E-Materials</b>	<b>Date And Duration</b>
<b>Module-4</b>  <b>Classificatio</b>	Classification : Problem Definition [Lecturer 1]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=gkagE_fe2sk">https://www.youtube.com/watch?v=gkagE_fe2sk</a>	<a href="https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	5th– 6th April, 2020 2 Days
	Decision Trees Induction [Lecturer 2]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=JU-uLX0xLDw">https://www.youtube.com/watch?v=JU-uLX0xLDw</a>	<a href="https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	7th- 8th April, 2020 2 Days
	Decision Trees Induction methods:[Lecturer 3]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=JU-uLX0xLDw">https://www.youtube.com/watch?v=JU-uLX0xLDw</a>	<a href="https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/olders/17j8rhpxdGig96-DG1Yrj4F9G2rpYslq9</a>	8th- 9th April, 2020 2 Days

n				<a href="#">G2rpYslq9</a>	
	Method for Comparing Classifiers [Lecturer 4]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=OpXRQADbr9M&amp;t=14s">https://www.youtube.com/watch?v=OpXRQADbr9M&amp;t=14s</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	9th- 10th April, 2020 2 Days
	Rule Based Classifiers [Lecturer 5]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=W9QqkEplngc">https://www.youtube.com/watch?v=W9QqkEplngc</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	10th- 11th April, 2020 2 Days
	Rule Based Classifiers problems [Lecturer 6]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=W9QqkEplngc">https://www.youtube.com/watch?v=W9QqkEplngc</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	11th-1 2th April, 2020 2 Days
	Nearest Neighbor Classifiers [Lecturer 7]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=LqBzNsfXoQU">https://www.youtube.com/watch?v=LqBzNsfXoQU</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	12th- 13th April, 2020 2 Day
	Bayesian Classifiers [Lecturer 8]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=RixQygYyDKI">https://www.youtube.com/watch?v=RixQygYyDKI</a>		13th- 14th April, 2020 2 Day
<b>Modules</b>	<b>Topics 1 Hour Each</b>	<b>Ppt's</b>	<b>Video Links</b>	<b>E-Materials</b>	<b>Date And Duration</b>
<b>Module-5 Clustering</b>	Clustering Analysis: Overview [Lecturer 1]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=KPDubbl_WWE&amp;list=PLyGDRqxp7CWmcw1igY3nF0qjuUXLE0jAi">https://www.youtube.com/watch?v=KPDubbl_WWE&amp;list=PLyGDRqxp7CWmcw1igY3nF0qjuUXLE0jAi</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	15th– 16th April, 2020 2 Days
	K-Means [Lecturer 2]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=CLKW6uWJtTc">https://www.youtube.com/watch?v=CLKW6uWJtTc</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	17th- 18th April, 2020 2 Days
	Agglomerative Hierarchical Clustering [Lecturer 3]	Will Be Mailed To Group Id	<a href="https://www.youtube.com/watch?v=EFhcDnw7RGY">https://www.youtube.com/watch?v=EFhcDnw7RGY</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rh pXdGig96-DG1Yrj4F9G2rpYslq9</a>	20th- 21th April, 2020 2 Days

<b>Analysis:</b>				<a href="#">G2rpYslq9</a>	
	DBSCAN [Lecturer 4]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=C3r7tGRe2eI">https://www.youtube.com/watch?v=C3r7tGRe2eI</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9</a>	22th- 23th April, 2020 2 Day
	Cluster Evaluation[Lecturer 5]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=KPDubbl_WWE&amp;list=PLyGDRqxp7CWmcw1igY3nF0qjuUXLE0jAi">https://www.youtube.com/watch?v=KPDubbl_WWE&amp;list=PLyGDRqxp7CWmcw1igY3nF0qjuUXLE0jAi</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9</a>	23th-24 <sup>th</sup> April, 2020 2 Day
	Density-Based Clustering[Lecturer 6]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=C3r7tGRe2eI">https://www.youtube.com/watch?v=C3r7tGRe2eI</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9</a>	27 <sup>th</sup> -29 <sup>th</sup> April, 2020 2 Day
	Graph Based Clustering [Lecturer 7]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=-Afa1WI3iug">https://www.youtube.com/watch?v=-Afa1WI3iug</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9</a>	4 <sup>th</sup> -6 <sup>th</sup> May 2020 2 Day
	Scalable Clustering Algorithms. [Lecturer 8]	<b>Will Be Mailed To Group Id</b>	<a href="https://www.youtube.com/watch?v=DLqaeYxNTXg">https://www.youtube.com/watch?v=DLqaeYxNTXg</a>	<a href="https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9">https://drive.google.com/drive/u/1/folders/17j8rhpXdGig96-DG1Yrj4F9G2rpYslq9</a>	7 <sup>th</sup> -8 <sup>th</sup> may2020 2 Day

Subject: Python Applications Programming				Course Code: 17CS664		
Module	Topics [1 hr each]	PPT	Video Links	E-Materials	Date & Duration	
Module 3	lists are mutable, traversing a list, list operations, slices, methods [lect 1]		<a href="https://www.youtube.com/watch?v=MUI1SuS">https://www.youtube.com/watch?v=MUI1SuS</a>		26/03/2020 27/03/2020	
	deleting elements, parsing lines, list arguments [lect 2]	<a href="https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40">https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40</a>	<a href="https://www.youtube.com/watch?v=MUI1SuS">https://www.youtube.com/watch?v=MUI1SuS</a>	<a href="https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40">https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40</a>	28/03/2020 29/03/2020	
	dictionary as set of counters [lect 3]				30/03/2020	
	looping and dictionaries, advanced text parsing [lect 4]				01/04/2020	
	Tuples are immutable, comparing tuples, tuple assignment [lect 5]				01/04/2020	
	dictionaries and tuples, sequences [lect 6]				02/04/2020	
	Regular expressions: character				04/04/2020	

	matching, extracting data [lect 7]				
	combing searching and extracting, bonus section for Unix/Linux users [lect 8]				06/04/2020
Module 4	Creating class and its object, instances etc with examples	<a href="https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40">https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40</a>	<a href="https://www.youtube.com/watch?v=QOryrmkr1tA&amp;list=PLS1QulWo1RIYt4e0WnBp-ZjCNq8X0FX0J&amp;index=27">https://www.youtube.com/watch?v=QOryrmkr1tA&amp;list=PLS1QulWo1RIYt4e0WnBp-ZjCNq8X0FX0J&amp;index=27</a>	<a href="https://drive.google.com/drive/folders/1-0asMsrbCbTwaAdgAvtzOyrMVlk_or40">https://drive.google.com/drive/folders/1-0asMsrbCbTwaAdgAvtzOyrMVlk_or40</a>	11/04/2020
	Objects are mutable, modifying through function , copying etc				13/04/2020
	Classes and functions types f functions with examples				16/04/2020
	Modifiers, prototype and planned development				18/04/2020
	Methods in Python, printing objects				20/04/2020
	Methods v/s functions transforming function to methods				23/04/2020
	Initialization methods and invoking method				25/04/2020
	Method overloading, overriding, operator overloading and polymorphism				27/04/2020
Module 5	HTTP, retrieving an image over HTTP	<a href="https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40">https://drive.google.com/drive/folders/1=0asMsrbCbTwaAdgAvtzOyrMVlk_or40</a>	No video links	<a href="https://drive.google.com/drive/folders/1-0asMsrbCbTwaAdgAvtzOyrMVlk_or40">https://drive.google.com/drive/folders/1-0asMsrbCbTwaAdgAvtzOyrMVlk_or40</a>	30/04/2020
	retrieving web pages with urllib, parsing HTML and scraping the web				02/05/2020
	Parsing HTML using regular expressions.				05/05/2020
	what is database, database concepts				04/05/2020
	database browser for SQLite				07/05/2020
	creating a database table, SQL summary, spidering Twitter using a database				09/05/2020
	basic data modeling, three kinds of keys				11/05/2020
	Using JOIN to retrieve data				14/05/2020
Revision On all module 1 to 5	Revision on module 1	Links already shared	Links already shared	Links already shared	16/05/2020
	Revision on module 2				18/05/2020
	Revision on module 2				18/05/2020
	Revision on module 3				28/05/2020
	Revision on module 3				30/05/2020
	Revision on module 4				01/06/2020
	Revision on module 4				04/06/2020
	Revision on module 5				06/06/2020
	Revision on module 5				08/06/2020