

# 5<sup>th</sup> Semester-ISE-E-Content

## 18CS51-Management, Entrepreneurship for IT Industry

Modules	Topics [2hr each]	PPT	Video Links	E- Materials	Date [2hrs]
<b>Module 1: MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY</b>	Introduction: Meaning, nature and characteristics of management	<a href="https://drive.google.com/file/d/1332IR9UAR2dwac2pCiCVt-eLgnB_Tz6b/view?usp=sharing">https://drive.google.com/file/d/1332IR9UAR2dwac2pCiCVt-eLgnB_Tz6b/view?usp=sharing</a>  <a href="https://drive.google.com/file/d/1nEyJqUNrZK3HbKeW9G7biNekMafNz6zL/view?usp=sharing">https://drive.google.com/file/d/1nEyJqUNrZK3HbKeW9G7biNekMafNz6zL/view?usp=sharing</a>  <a href="https://drive.google.com/file/d/1889ffvjljea0Zb1XAWPNX6zpB1IMd_R3/view?usp=sharing">https://drive.google.com/file/d/1889ffvjljea0Zb1XAWPNX6zpB1IMd_R3/view?usp=sharing</a>  <a href="https://drive.google.com/file/d/1mlhajwV65aQ2wMmQsQE15pxCGpmDEbl/view?usp=sharing">https://drive.google.com/file/d/1mlhajwV65aQ2wMmQsQE15pxCGpmDEbl/view?usp=sharing</a>	<a href="https://www.youtube.com/watch?v=0GyKxRYx1tQ">https://www.youtube.com/watch?v=0GyKxRYx1tQ</a>	<a href="https://docs.google.com/document/d/1Eolds8ugbri2R5uXHy4G4kvguT-4FY1oU-5bH3vgs6c/edit">https://docs.google.com/document/d/1Eolds8ugbri2R5uXHy4G4kvguT-4FY1oU-5bH3vgs6c/edit</a>	<b>9/2/2020</b>
	Scope and Functional Area of Management		<a href="https://www.youtube.com/watch?v=aWV8w-coyhM">https://www.youtube.com/watch?v=aWV8w-coyhM</a>		<b>9/5/2020</b>
	goals of management, levels of management		<a href="https://www.youtube.com/watch?v=1-SvuFIQjK8">https://www.youtube.com/watch?v=1-SvuFIQjK8</a>		<b>9/9/2020</b>
	brief overview of evolution of management theories		<a href="https://www.youtube.com/watch?v=d1jOwD-CTLI">https://www.youtube.com/watch?v=d1jOwD-CTLI</a>		<b>9/12/2020</b>
	Planning-nature		<a href="https://www.youtube.com/watch?v=pCUs3UKwYpc">https://www.youtube.com/watch?v=pCUs3UKwYpc</a>		<b>9/16/2020</b>
	Importance, types of plans		<a href="https://www.youtube.com/watch?v=QzmyvAdweHk">https://www.youtube.com/watch?v=QzmyvAdweHk</a>		<b>9/19/2020</b>
	Steps in planning,		<a href="https://www.youtube.com/watch?v=oL-5G_0bQtM">https://www.youtube.com/watch?v=oL-5G_0bQtM</a>		<b>9/23/2020</b>
	Organizing- nature and purpose, types of Organization,		<a href="https://www.youtube.com/watch?v=cpXAZnV54YM">https://www.youtube.com/watch?v=cpXAZnV54YM</a>		<b>9/26/2020</b>
	Staffing- meaning, process of recruitment and selection		<a href="https://www.youtube.com/watch?v=jT8N6nXG6Co">https://www.youtube.com/watch?v=jT8N6nXG6Co</a>		<b>9/30/2020</b>

<b>MODULE 2</b>	Directing and controlling	<a href="https://drive.google.com/file/d/1_h1dp_kDfHzL-KjrS_g796aaRGgiPiOC/view?usp=sharing">https://drive.google.com/file/d/1_h1dp_kDfHzL-KjrS_g796aaRGgiPiOC/view?usp=sharing</a>	<a href="https://www.youtube.com/watch?v=tjy0B-Q9WMU&amp;t=196s">https://www.youtube.com/watch?v=tjy0B-Q9WMU&amp;t=196s</a>	<a href="https://classroom.google.com/u/1/c/MTUyODUwNTI5NTg0">https://classroom.google.com/u/1/c/MTUyODUwNTI5NTg0</a>	<b>10/3/2020</b>
	Meaning and nature of directing		<a href="https://www.youtube.com/watch?v=tjy0B-Q9WMU&amp;t=202s">https://www.youtube.com/watch?v=tjy0B-Q9WMU&amp;t=202s</a>		14/10/2020
	Leadership styles,motivation Theories		<a href="https://www.youtube.com/watch?v=tlhUQhT2fxk">https://www.youtube.com/watch?v=tlhUQhT2fxk</a> <a href="https://www.youtube.com/watch?v=pjgdvp2f_cs">https://www.youtube.com/watch?v=pjgdvp2f_cs</a>		17/10/2020
	Communication- Meaning and importance, Coordination meaning and importance,		<a href="https://www.youtube.com/watch?v=Dgp-bfdiCoY,https://www.youtube.com/watch?v=xAyRmGhNchl&amp;t=90s">https://www.youtube.com/watch?v=Dgp-bfdiCoY,https://www.youtube.com/watch?v=xAyRmGhNchl&amp;t=90s</a>		21/10/2020
	Controlling- meaning, steps in controlling, methods of establishing control.		<a href="https://www.youtube.com/watch?v=jOLHwYi-wal">https://www.youtube.com/watch?v=jOLHwYi-wal</a>		28/10/2020
<b>Module – 3</b>	Entrepreneur – meaning of entrepreneur, characteristics of entrepreneurs,	<a href="https://drive.google.com/file/d/1quQjyZwvqVSIE1rsP2MuEXI3p_9U7JuA/view">https://drive.google.com/file/d/1quQjyZwvqVSIE1rsP2MuEXI3p_9U7JuA/view</a>	<a href="https://www.youtube.com/watch?v=92ZmzD70sOU">https://www.youtube.com/watch?v=92ZmzD70sOU</a>		04/11/2020
	classification and types of entrepreneurs, various stages in entrepreneurial process		<a href="https://www.youtube.com/watch?v=oMyUK9XkE9k">https://www.youtube.com/watch?v=oMyUK9XkE9k</a>		07/11/2020
	role of entrepreneurs in economic development, entrepreneurship in India and barriers to entrepreneurship		<a href="https://www.youtube.com/watch?v=wCs6iYPoJO4">https://www.youtube.com/watch?v=wCs6iYPoJO4</a>		18/11/2020
	Identification of business opportunities,		<a href="https://www.youtube.com/watch?v=HMybR2X2G3Y">https://www.youtube.com/watch?v=HMybR2X2G3Y</a>		20/11/2020

	market feasibility study, technical feasibility study, financial feasibility study and social feasibility study.		<a href="https://www.youtube.com/watch?v=IOBLbm0oO_k">https://www.youtube.com/watch?v=IOBLbm0oO_k</a>		25/11/2020
					28/11/2020
<b>Module – 4</b>	Preparation of project and ERP - meaning of project, project identification,		<a href="https://www.youtube.com/watch?v=6Qj9RNXTJ4Q&amp;t=9s">https://www.youtube.com/watch?v=6Qj9RNXTJ4Q&amp;t=9s</a>		
	project selection, project report, need and significance of project report		<a href="https://www.youtube.com/watch?v=dzQxOmMY1iY">https://www.youtube.com/watch?v=dzQxOmMY1iY</a>		
	contents, formulation, guidelines by planning commission for project report,	<a href="https://drive.google.com/file/d/1FMtDouWcjWI2HT31km22IRXJtZ-advA/view">https://drive.google.com/file/d/1FMtDouWcjWI2HT31km22IRXJtZ-advA/view</a>	<a href="https://www.youtube.com/watch?v=dzQxOmMY1iY">https://www.youtube.com/watch?v=dzQxOmMY1iY</a>		
	Enterprise Resource Planning: Meaning and Importance- ERP and Functional areas of Management		<a href="https://www.youtube.com/watch?v=c9HfNg4a_Og">https://www.youtube.com/watch?v=c9HfNg4a_Og</a>		
	Marketing / Sales- Supply Chain Management – Finance and Accounting		<a href="https://www.youtube.com/watch?v=INphwcl4X7o">https://www.youtube.com/watch?v=INphwcl4X7o</a>		
	Human Resources – Types of reports and methods of report generation		<a href="https://www.youtube.com/watch?v=INphwcl4X7o">https://www.youtube.com/watch?v=INphwcl4X7o</a>		
<b>Module – 5</b>	Micro and Small Enterprises: Definition of micro and small enterprises, characteristics		<a href="https://www.youtube.com/watch?v=4gBpli-gXhc">https://www.youtube.com/watch?v=4gBpli-gXhc</a>		
	advantages of micro and small enterprises, steps in establishing micro and small enterprises,	<a href="https://drive.google.com/file/d/1laDtjr4-Rj2h0wXY_hf1sx6IcVcyNs0w/view">https://drive.google.com/file/d/1laDtjr4-Rj2h0wXY_hf1sx6IcVcyNs0w/view</a>	<a href="https://www.youtube.com/watch?v=4gBpli-gXhc">https://www.youtube.com/watch?v=4gBpli-gXhc</a>		
	Government of India industrial policy 2007 on micro and small enterprises, case study (Microsoft)		<a href="https://www.youtube.com/watch?v=m2vt8uOEXoY">https://www.youtube.com/watch?v=m2vt8uOEXoY</a>		
	Case study(Captain G R		<a href="https://www.youtube.com">https://www.youtube.com</a>		
					december
					january

	Gopinath),case study (N R Narayana Murthy & Infosys)		<a href="#">/watch?v=gHDMp6JSBHc</a>		
	Institutional support: MSME-DI, NSIC, SIDBI, KIADB, KSSIDC, TECSOK, KSFC, DIC and District level single window agency,		<a href="https://www.youtube.com/watch?v=4gBpli-gXhc">https://www.youtube.com/watch?v=4gBpli-gXhc</a>		
	Introduction to IPR.		<a href="https://www.youtube.com/watch?v=WvduZOWoft0">https://www.youtube.com/watch?v=WvduZOWoft0</a>		

## 18CS52-Computer Networks and Security

Modules	Topics [1hr each]	PPT	Video Links	E- Materials	Date[2 hours]
<b>Module-1: Introduction to Internet</b>	L1-Overview of CNS modules	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=RWtrDG-6aYA&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=1">https://www.youtube.com/watch?v=RWtrDG-6aYA&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=1</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	9/4/2020
	L2-Instroduction to Internet	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=SNyxlrrGWI&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=2">https://www.youtube.com/watch?v=SNyxlrrGWI&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=2</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	9/7/2020
	L3-Insternet layers introduction	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=i71p_v83_eQ&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=3">https://www.youtube.com/watch?v=i71p_v83_eQ&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=3</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	9/11/2020
	L4-Core of Internet	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=i71p_v83_eQ&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=3">https://www.youtube.com/watch?v=i71p_v83_eQ&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=3</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	9/14/2020
	L5-Packet switching and Circuit Switching	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=6_3asyLP2M&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=5">https://www.youtube.com/watch?v=6_3asyLP2M&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=5</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	9/18/2020
	L6Internet Structure & Internet delays	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=zUPayNytbg">https://www.youtube.com/watch?v=zUPayNytbg</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9H">https://drive.google.com/drive/folders/1vf2bke9D7CQO9H</a>	9/21/2020

			<a href="https://www.youtube.com/watch?v=5b0VYZbZjFg&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=6">w&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=6</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1">bbt9Egh6HGYnAfdFe1</a>	
	Introduction to Application layer	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=5b0VYZbZjFg&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=7">https://www.youtube.com/watch?v=5b0VYZbZjFg&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=7</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1</a>	9/25/2020
	Transport layer Services	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=5b0VYZbZjFg&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=7">https://www.youtube.com/watch?v=5b0VYZbZjFg&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=7</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1</a>	9/28/2020
	HTTP protocol and its message formats	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8lb8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=11">https://www.youtube.com/watch?v=d8lb8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=11</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1</a>	10/5/2020
	HTTP Error Messages and Cookies	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=JKSptNJ11Yk&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=12">https://www.youtube.com/watch?v=JKSptNJ11Yk&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=12</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1</a>	10/9/2020
	Gonditional GET and FTP and SMTP	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=JKSptNJ11Yk&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=12">https://www.youtube.com/watch?v=JKSptNJ11Yk&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=12</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1</a>	12.10.20
	SMTP and DNS	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8lb8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=11">https://www.youtube.com/watch?v=d8lb8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=11</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYnAfdFe1</a>	16.10.20

			<a href="https://www.youtube.com/watch?v=JKSptNJ11Yk&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">XlxxNPehChW5iQG1iJC&amp;index=111</a>		
<b>Module-2: Transport layer</b>	DNS protocol	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=JKSptNJ11Yk&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=12">https://www.youtube.com/watch?v=JKSptNJ11Yk&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=12</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	19.10.20
	DNS Message format and assignment	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	23.10.20
	No class	No class	No class	No class(Holiday)	26/10/2020
	No class	No class	No class	No class(Holiday)	30/10/2020
	P2P & Socket Programming	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	02/11/2020
	Transport layer Services	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	6/11/2020
	TPL multiplexing and DeMultiplexing	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	09/11/2020
	TCP and UDP TPL services	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0">https://www.youtube.com/watch?v=d8Ib8a3TeN0</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9H">https://drive.google.com/drive/folders/1vf2bke9D7CQO9H</a>	13/11/2020

			<a href="https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	
	Stop and Wait, GO back N, Selective Repeat	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	20/11/2020
	Congestion control	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	23/11/2020
<b>Module – 3</b>	The Network layer What's Inside a Router?: Input Processing, Switching	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	27/11/2020
	Output Processing, Where Does Queuing Occur? Routing control plane	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	30/11/2020
	IPv6, A Brief foray into IP Security	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	04/11/2020
	Routing Algorithms: The Link-State (LS) Routing Algorithm	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d81b8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	07/11/2020



			<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">XlxxNPehChW5iQG1iJC&amp;index=111</a>		
	Routing Algorithms: The Link-State (LS) Routing Algorithm	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	11/11/2020
	<b>DV, HR, BGP, OSPF, Broadcast and Multicast Routing</b>	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	14/11/2020
<b>Module – 4</b>	An Overview of Cellular Network Architecture	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	18/11/2020
	3G Cellular Data Networks:	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	11/11/2020
	On to 4G:LTE	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	21/11/2020
	Mobility management: Principles, Addressing	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdfE1</a>	25/11/2020

			<a href="#">index=111</a>		
	Routing to a mobile node, Mobile IP, Handoffs in GSM	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	28/11/2020
	Wireless and Mobility: Impact on Higher-layer protocols.	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	January
<b>Module – 5</b>	Multimedia Networking Applications Properties of video, properties of Audio	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	January
	Streaming stored video: UDP Streaming	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	January
	HTTP Streaming, Adaptive streaming and DASH	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	January
	<b>Case study(Captain G R Gopinath),case study (N R Narayana Murthy &amp; Infosys)</b>	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bkE9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	January

	Providing Multiple Classes of Service, Diffserv, Per-Connection Quality-ofService (QoS) Guarantees: Resource Reservation and Call Admission	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	January
	Per-Connection Quality-ofService (QoS) Guarantees: Resource Reservation and Call Admission	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111">https://www.youtube.com/watch?v=d8Ib8a3TeN0&amp;list=PLXDX4vxbgW0D3nXlxxNPehChW5iQG1iJC&amp;index=111</a>	<a href="https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1">https://drive.google.com/drive/folders/1vf2bke9D7CQO9Hbbt9Egh6HGYNafdFe1</a>	January

## 18CS53-Database Management System

Module	Topics [1 Hr Each]	PPT	Video Links	E - Materials	Date
Module 1: Introduction to Databases	Introduction, Characteristics of database approach	Will be mailed to group mail id	<a href="https://www.youtube.com/watch?v=K7-Nt1MXpkI">https://www.youtube.com/watch?v=K7-Nt1MXpkI</a> <a href="https://www.youtube.com/watch?v=V0H3gtro6ag">https://www.youtube.com/watch?v=V0H3gtro6ag</a>	<a href="https://www.cseworldonline.com/dbms-tutorial/characteristics-of-database.php">https://www.cseworldonline.com/dbms-tutorial/characteristics-of-database.php</a>	03/09/2020
	Advantages of using DBMS approach, History of database applications		<a href="https://www.youtube.com/watch?v=osbs4I5qa8M">https://www.youtube.com/watch?v=osbs4I5qa8M</a> <a href="https://www.youtube.com/watch?v=vdncrBUOJk0">https://www.youtube.com/watch?v=vdncrBUOJk0</a> <a href="https://www.youtube.com/watch?v=5fs1ldO6B5c">https://www.youtube.com/watch?v=5fs1ldO6B5c</a>	<a href="https://drive.google.com/file/d/1RtcaGumDdILlgSpiu3zRweizZXusySLr/view?usp=sharing">https://drive.google.com/file/d/1RtcaGumDdILlgSpiu3zRweizZXusySLr/view?usp=sharing</a>	07/09/2020
	Data models, Schemas, and Instances, Three Schema architecture		<a href="https://www.youtube.com/watch?v=9lucCvD1Ppc">https://www.youtube.com/watch?v=9lucCvD1Ppc</a> <a href="https://www.youtube.com/watch?v=pDX4NR4eY3A">https://www.youtube.com/watch?v=pDX4NR4eY3A</a> <a href="https://www.youtube.com/watch?v=5fs1ldO6B5c&amp;t=723s">https://www.youtube.com/watch?v=5fs1ldO6B5c&amp;t=723s</a> <a href="https://www.youtube.com/watch?v=N7zKoEKIUHY">https://www.youtube.com/watch?v=N7zKoEKIUHY</a>	<a href="https://drive.google.com/file/d/1cnuvnNQwp2oegEiRoPRK2ivfTZhcFFk0/view?usp=sharing">https://drive.google.com/file/d/1cnuvnNQwp2oegEiRoPRK2ivfTZhcFFk0/view?usp=sharing</a>	10/09/2020

<p>Data independence, database languages and interfaces. Database system environment</p>		<p><a href="https://www.youtube.com/watch?v=upUSGUSK5k0">https://www.youtube.com/watch?v=upUSGUSK5k0</a></p> <p><a href="https://www.youtube.com/watch?v=PBTi2HXwTsk">https://www.youtube.com/watch?v=PBTi2HXwTsk</a></p> <p><a href="https://www.youtube.com/watch?v=bxVVoifbPsc">https://www.youtube.com/watch?v=bxVVoifbPsc</a></p> <p><a href="https://www.youtube.com/watch?v=ZoylFOfx9Q">https://www.youtube.com/watch?v=ZoylFOfx9Q</a></p>	<p><a href="https://drive.google.com/file/d/1Xeq9uf9EPmqKvX6rvWnfLLKTGKYkerql/view?usp=sharing">https://drive.google.com/file/d/1Xeq9uf9EPmqKvX6rvWnfLLKTGKYkerql/view?usp=sharing</a></p>	<p>14/09/2020</p>
<p>Entity types, Entity sets, attributes, roles and structural constraints, Weak entity types</p>		<p><a href="https://www.youtube.com/watch?v=F7j31IEBctU">https://www.youtube.com/watch?v=F7j31IEBctU</a></p> <p><a href="https://www.youtube.com/watch?v=qOlhSLc0IA">https://www.youtube.com/watch?v=qOlhSLc0IA</a></p> <p><a href="https://www.youtube.com/watch?v=WEo3g6lr-vA">https://www.youtube.com/watch?v=WEo3g6lr-vA</a></p>	<p><a href="https://drive.google.com/file/d/1R4ybAo7kRC5E1mssXtywdlyKntqYYCS2/view?usp=sharing">https://drive.google.com/file/d/1R4ybAo7kRC5E1mssXtywdlyKntqYYCS2/view?usp=sharing</a></p>	<p>17/09/2020</p>
<p>ER Diagrams, examples, specialization and generalization</p>		<p><a href="https://www.youtube.com/watch?v=WyJmwIND114">https://www.youtube.com/watch?v=WyJmwIND114</a></p> <p><a href="https://www.youtube.com/watch?v=jznwggCCjto">https://www.youtube.com/watch?v=jznwggCCjto</a></p>	<p><a href="https://drive.google.com/file/d/1TO8rdVBXN41AGg614Fx_amfJaRUjlkSg/view?usp=sharing">https://drive.google.com/file/d/1TO8rdVBXN41AGg614Fx_amfJaRUjlkSg/view?usp=sharing</a></p> <p><a href="https://drive.google.com/file/d/1vKsAAyZc6JLKHROTcsPW52yybSgyQeK8/view?usp=sharing">https://drive.google.com/file/d/1vKsAAyZc6JLKHROTcsPW52yybSgyQeK8/view?usp=sharing</a></p>	<p>21/09/2020</p>

	Relational model concepts, Relational model constraints, Relational database schemas, Update operations		<a href="https://www.youtube.com/watch?v=P8n_rwPzdBc">https://www.youtube.com/watch?v=P8n_rwPzdBc</a> <a href="https://www.youtube.com/watch?v=dr9uXrbzBco">https://www.youtube.com/watch?v=dr9uXrbzBco</a> <a href="https://www.youtube.com/watch?v=KaIRmVD-v3U">https://www.youtube.com/watch?v=KaIRmVD-v3U</a>	<a href="https://drive.google.com/file/d/1vKsAAyZc6JLKHROTCSPW52yybSgyQeK8/view?usp=sharing">https://drive.google.com/file/d/1vKsAAyZc6JLKHROTCSPW52yybSgyQeK8/view?usp=sharing</a>	24/09/2020
	Transactions and dealing with constraint violations, Unary and Binary relational operations		<a href="https://www.youtube.com/watch?v=mcMFrBdwugo">https://www.youtube.com/watch?v=mcMFrBdwugo</a> <a href="https://www.youtube.com/watch?v=4gPEfTGTYTU">https://www.youtube.com/watch?v=4gPEfTGTYTU</a>	Updated Soon	28/09/2020
<b>Module 2</b>	ER Diagrams, examples, specialization and generalization		<a href="https://www.youtube.com/watch?v=mcMFrBdwugo">https://www.youtube.com/watch?v=mcMFrBdwugo</a> <a href="https://www.youtube.com/watch?v=4gPEfTGTYTU">https://www.youtube.com/watch?v=4gPEfTGTYTU</a>	<a href="https://drive.google.com/file/d/1ilo59epZkJsindG-jdzdxZRDxfKNUzHT/view?usp=sharing">https://drive.google.com/file/d/1ilo59epZkJsindG-jdzdxZRDxfKNUzHT/view?usp=sharing</a>	01-10-2020
	Transactions and dealing with constraint violations, Unary and Binary relational operations	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=mcMFrBdwugo">https://www.youtube.com/watch?v=mcMFrBdwugo</a>	<a href="https://drive.google.com/file/d/13UmhrBmmL2IW_6XPkQldTrWbWN_aW5i7/view?usp=sharing">https://drive.google.com/file/d/13UmhrBmmL2IW_6XPkQldTrWbWN_aW5i7/view?usp=sharing</a>	05/10/2020
	Relational algebra		<a href="https://www.youtube.com/watch?v=4gPEfTGTYTU">https://www.youtube.com/watch?v=4gPEfTGTYTU</a>	<a href="https://drive.google.com/file/d/1OVZs4LON2MNKYVQyCQSMOvC-qWgrkObR/view?usp=s">https://drive.google.com/file/d/1OVZs4LON2MNKYVQyCQSMOvC-qWgrkObR/view?usp=s</a>	06/10/2020

			<a href="#">haring</a>	
	Unary and binary relational operators	<a href="https://www.youtube.com/watch?v=xOgyA7OysXM">https://www.youtube.com/watch?v=xOgyA7OysXM</a> <a href="https://www.youtube.com/watch?v=BtmHISzqYjQ">https://www.youtube.com/watch?v=BtmHISzqYjQ</a> <a href="https://www.youtube.com/watch?v=-FPVPcq28r4">https://www.youtube.com/watch?v=-FPVPcq28r4</a>	<a href="https://drive.google.com/file/d/1jR-0EAww2GH0lkQpW0zIOJgyOMXxP5AR/view?usp=sharing">https://drive.google.com/file/d/1jR-0EAww2GH0lkQpW0zIOJgyOMXxP5AR/view?usp=sharing</a>	07/10/2020
	Union, Intersection, and Minus operators	<a href="https://www.youtube.com/watch?v=2SMaTHyyIt0">https://www.youtube.com/watch?v=2SMaTHyyIt0</a>	<a href="https://drive.google.com/file/d/1jUD92NePZtIUu0xcG-zghC6VSjYmIsB/view?usp=sharing">https://drive.google.com/file/d/1jUD92NePZtIUu0xcG-zghC6VSjYmIsB/view?usp=sharing</a>	12/10/2020
	Binary relational operators : Join	<a href="https://www.youtube.com/watch?v=hlh5-Y1QwFw">https://www.youtube.com/watch?v=hlh5-Y1QwFw</a>	<a href="https://drive.google.com/file/d/1IFCE_0ONhYITPe1tAkF441tvnzamYb07/view?usp=sharing">https://drive.google.com/file/d/1IFCE_0ONhYITPe1tAkF441tvnzamYb07/view?usp=sharing</a>	13/10/2020
	Outer Join, Inner join, and different join operations with examples	<a href="https://www.youtube.com/watch?v=KasQpgDpFbE">https://www.youtube.com/watch?v=KasQpgDpFbE</a>	<a href="https://drive.google.com/file/d/18W-Qp_RC3A0X2yEvu4ad1eAKFJ2vmWlr/view?usp=sharing">https://drive.google.com/file/d/18W-Qp_RC3A0X2yEvu4ad1eAKFJ2vmWlr/view?usp=sharing</a>	19/10/2020
	Examples, Solved problems	<a href="https://www.guru99.com/relational-algebra-dbms.html">https://www.guru99.com/relational-algebra-dbms.html</a>	<a href="https://drive.google.com/file/d/1PZz23t6NtmV4Gw-2e7EtoCEIL3lmlSkH/view?usp=sharing">https://drive.google.com/file/d/1PZz23t6NtmV4Gw-2e7EtoCEIL3lmlSkH/view?usp=sharing</a>	22/10/2020 (Morning)
	Examples, Solved problems	<a href="https://www.guru99.com/relational-algebra-dbms.html">https://www.guru99.com/relational-algebra-dbms.html</a>	<a href="https://drive.google.com/file/d/1HmE0Tb12Yw69fpxCDIEgn">https://drive.google.com/file/d/1HmE0Tb12Yw69fpxCDIEgn</a>	22/10/2020 (Afternoon)

				<a href="https://drive.google.com/file/d/BV7V4ra6A8k/view?usp=sharing">BV7V4ra6A8k/view?usp=sharing</a>	
	Division Operation		<a href="https://www.youtube.com/watch?v=R8aeztRGIOE">https://www.youtube.com/watch?v=R8aeztRGIOE</a>	<a href="https://drive.google.com/file/d/1tugcJO5Uq16WQD97Cc0akf9WB9stDtj/view?usp=sharing">https://drive.google.com/file/d/1tugcJO5Uq16WQD97Cc0akf9WB9stDtj/view?usp=sharing</a>	02/11/2020
	Examples on relational algebra		<a href="https://www.youtube.com/watch?v=KasQpgDpFbE">https://www.youtube.com/watch?v=KasQpgDpFbE</a>	<a href="https://drive.google.com/file/d/1JY-mgyPLMR9K3n478kbsPOphWgg3UGsv/view?usp=sharing">https://drive.google.com/file/d/1JY-mgyPLMR9K3n478kbsPOphWgg3UGsv/view?usp=sharing</a>	05/11/2020
	Examples on relational algebra		<a href="https://www.youtube.com/watch?v=KasQpgDpFbE">https://www.youtube.com/watch?v=KasQpgDpFbE</a>	<a href="https://drive.google.com/file/d/1C3OZkd7wJFOU61_dTD6vCAxFEC9OhfKM/view?usp=sharing">https://drive.google.com/file/d/1C3OZkd7wJFOU61_dTD6vCAxFEC9OhfKM/view?usp=sharing</a>	09/11/2020
	Revision		<a href="https://www.youtube.com/watch?v=KasQpgDpFbE">https://www.youtube.com/watch?v=KasQpgDpFbE</a>	<a href="https://drive.google.com/file/d/1o8Q_xoSOaKbABoRz2SxmQCxeyEpCBp2u/view?usp=sharing">https://drive.google.com/file/d/1o8Q_xoSOaKbABoRz2SxmQCxeyEpCBp2u/view?usp=sharing</a>	12/11/2020
	Advanced queries, specifying constraints,	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=9WP35xwZ3tk">https://www.youtube.com/watch?v=9WP35xwZ3tk</a>		30/11/2020
<b>Module 3</b>	Action triggers, views Database application development, Introduction to JDBC,	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=nfpeNO_SpmM">https://www.youtube.com/watch?v=nfpeNO_SpmM</a>	Will be mailed to group mail ID	03/12/2020
			<a href="https://www.youtube.com/watch?v=iB1IOVUozUw&amp;vl=en">https://www.youtube.com/watch?v=iB1IOVUozUw&amp;vl=en</a>		
	STored procedures, Internet bookshop, Internet applications,		<a href="https://www.youtube.com/watch?v=ZTivHShsjg">https://www.youtube.com/watch?v=ZTivHShsjg</a> <a href="https://www.studentprojectguide.com/php/online-bookstore-project/">https://www.studentprojectguide.com/php/online-bookstore-project/</a>		



	JDBC classes and interfaces ,SQLJ	<a href="https://www.youtube.com/watch?v=d7afHNTxkf8">https://www.youtube.com/watch?v=d7afHNTxkf8</a> , <a href="https://www.youtube.com/watch?v=fS50XOIHPnQ">https://www.youtube.com/watch?v=fS50XOIHPnQ</a>		10/12/2020
	Presentation layer,middle tier	<a href="https://www.youtube.com/watch?v=zdABU1bVZDg">https://www.youtube.com/watch?v=zdABU1bVZDg</a> , <a href="https://www.youtube.com/watch?v=jJYv-nfkMXk">https://www.youtube.com/watch?v=jJYv-nfkMXk</a>		14/12/2020
<b>Module 4</b>	Normalization, Functional and multivalued dependencies	<a href="https://www.studytonight.com/databases/database-normalization.php">https://www.studytonight.com/databases/database-normalization.php</a> , <a href="https://www.youtube.com/watch?v=-lnF1bpXCn0">https://www.youtube.com/watch?v=-lnF1bpXCn0</a> , <a href="https://www.youtube.com/watch?v=6nws1kk4ZNs">https://www.youtube.com/watch?v=6nws1kk4ZNs</a>		17/12/2020
	Informal design guideleines and normal form based on primary keys, First, second , third and BCNF normal forms	<a href="https://www.youtube.com/watch?v=mr3fmcMQgdw">https://www.youtube.com/watch?v=mr3fmcMQgdw</a> , <a href="https://www.youtube.com/watch?v=um-LkgsN5_A">https://www.youtube.com/watch?v=um-LkgsN5_A</a> , <a href="https://www.studytonight.com/databases/boyce-codd-normal-form.php">https://www.studytonight.com/databases/boyce-codd-normal-form.php</a>		21/12/2020
	Fourth, fifth normal forms, inference rules, equivalence minimal cover, dangling NULLs	<a href="https://www.youtube.com/watch?v=OBiNTE14EEg">https://www.youtube.com/watch?v=OBiNTE14EEg</a> , <a href="https://www.youtube.com/watch?v=7sEMzgclzPo">https://www.youtube.com/watch?v=7sEMzgclzPo</a>		24/12/2020
	Multivalud and 4NF, other dependencies and normal forms	<a href="https://www.youtube.com/watch?v=YD8dhOmuVnY">https://www.youtube.com/watch?v=YD8dhOmuVnY</a>		28/12/2020

## 18CS54-Automata theory and Computability

Modules	Topics	PPT	Video Links	E- Materials	Date
Module 1	Why study the Theory of Computation, Languages and Strings	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=dgTS-h-4naU">https://www.youtube.com/watch?v=dgTS-h-4naU</a>	<a href="https://drive.google.com/file/d/1aFHGFG2ywoFDPpz_38kv1JjvBFLC6N3y/view?usp=sharing">https://drive.google.com/file/d/1aFHGFG2ywoFDPpz_38kv1JjvBFLC6N3y/view?usp=sharing</a>	9/2/2020
	Language Hierarchy, Computation				9/5/2020
	Finite State Machines (FSM): Deterministic FSM		<a href="https://www.youtube.com/watch?v=x0ihqiiRXo8&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=2">https://www.youtube.com/watch?v=x0ihqiiRXo8&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=2</a> <a href="https://www.youtube.com/watch?v=LOZxYBOKRLg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=3">https://www.youtube.com/watch?v=LOZxYBOKRLg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=3</a>		9/9/2020
	Regular languages, Designing FSM		<a href="https://www.youtube.com/watch?v=M84oEgYgw6U&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=4">https://www.youtube.com/watch?v=M84oEgYgw6U&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=4</a>		9/12/2020
	More problems on Designing FSM		<a href="https://www.youtube.com/watch?v=VIHlbKz6Ytg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=7">https://www.youtube.com/watch?v=VIHlbKz6Ytg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=7</a>		9/16/2020

	More problems on Designing FSM		<a href="https://www.youtube.com/watch?v=k6yLHAheAeU&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=8">https://www.youtube.com/watch?v=k6yLHAheAeU&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=8</a>		9/19/2020
	Nondeterministic FSMs		<a href="https://www.youtube.com/watch?v=quBzmvsxzkw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=5">https://www.youtube.com/watch?v=quBzmvsxzkw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=5</a>		9/23/2020
	From FSMs to Operational Systems, Simulators for FSMs		<a href="https://www.youtube.com/watch?v=DI0XcLkQagw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=9">https://www.youtube.com/watch?v=DI0XcLkQagw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=9</a> <a href="https://www.youtube.com/watch?v=fx9ZCPfzvvgg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=10">https://www.youtube.com/watch?v=fx9ZCPfzvvgg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=10</a> <a href="https://www.youtube.com/watch?v=jN8zvENdjBg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=11">https://www.youtube.com/watch?v=jN8zvENdjBg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=11</a>		9/26/2020
	Minimizing FSMs, Canonical form of Regular languages		<a href="https://www.youtube.com/watch?v=GqGA5Hx9ioA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=16">https://www.youtube.com/watch?v=GqGA5Hx9ioA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=16</a> <a href="https://www.youtube.com/watch?v=FKPYRi39bhA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=17">https://www.youtube.com/watch?v=FKPYRi39bhA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=17</a>		9/30/2020
	Finite State Transducers, Bidirectional Transducers.		<a href="https://www.youtube.com/watch?v=RkdZMJPIhJE&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=12">https://www.youtube.com/watch?v=RkdZMJPIhJE&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=12</a> <a href="https://www.youtube.com/watch?v=ADQWp8ZrEo4&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=13">https://www.youtube.com/watch?v=ADQWp8ZrEo4&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=13</a>		10/7/2020

Module 2	Regular Expressions (RE): what is a RE?	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=upu_TeZlmN0">https://www.youtube.com/watch?v=upu_TeZlmN0</a>	<a href="https://drive.google.com/file/d/1PaTnHmmlEOkgNCDkGnVMY5w49yTxSQqM/view?usp=sharing">https://drive.google.com/file/d/1PaTnHmmlEOkgNCDkGnVMY5w49yTxSQqM/view?usp=sharing</a>	10/10/2020
	Kleene's theorem		<a href="https://www.youtube.com/watch?v=62JAy4oH6IU">https://www.youtube.com/watch?v=62JAy4oH6IU</a> <a href="https://www.youtube.com/watch?v=zSHS_7omxRY">https://www.youtube.com/watch?v=zSHS_7omxRY</a>		10/14/2020
	Applications of REs, Manipulating and Simplifying REs		<a href="https://www.youtube.com/watch?v=SmT1DXLI3f4">https://www.youtube.com/watch?v=SmT1DXLI3f4</a>		10/17/2020
	Regular Grammars: Definition, Regular Grammars and Regular languages.		<a href="https://www.youtube.com/watch?v=WgEsPTAL55Q">https://www.youtube.com/watch?v=WgEsPTAL55Q</a> <a href="https://www.youtube.com/watch?v=WrzaPNj9OZ4">https://www.youtube.com/watch?v=WrzaPNj9OZ4</a>		10/21/2020
	Regular Languages (RL) and Non-regular Languages: Closure properties of RLs, to show some languages are not RLs.		<a href="https://www.youtube.com/watch?v=dikEDuepOtl">https://www.youtube.com/watch?v=dikEDuepOtl</a> <a href="https://www.youtube.com/watch?v=Ty9tpikilAo">https://www.youtube.com/watch?v=Ty9tpikilAo</a> <a href="https://www.youtube.com/watch?v=kZzH8E-s-9o">https://www.youtube.com/watch?v=kZzH8E-s-9o</a>		10/28/2020
Module 3	CFG: Introduction to Rewrite Systems and Grammars	Will be mailed to	<a href="https://www.youtube.com/watch?v=dfbXx5JXL1M">https://www.youtube.com/watch?v=dfbXx5JXL1M</a>	<a href="https://www.univ-orleans.fr/lifo/Members/Miri">https://www.univ-orleans.fr/lifo/Members/Miri</a>	11/04/2020

	CFG's and languages, designing CFGs, simplifying CFGs	group mail ID	<a href="https://www.youtube.com/watch?v=nMwtITFSqjo">https://www.youtube.com/watch?v=nMwtITFSqjo</a> <a href="https://www.youtube.com/watch?v=HAIoLSHpLjic">https://www.youtube.com/watch?v=HAIoLSHpLjic</a> <a href="https://www.youtube.com/watch?v=TDcQ-5Q6czQ">https://www.youtube.com/watch?v=TDcQ-5Q6czQ</a>	<a href="http://an.Halfeld/Cours/TLComp/I3-CFG.pdf">an.Halfeld/Cours/TLComp/I3-CFG.pdf</a>	11/04/2020
	proving that a Grammar is correct, Derivation and Parse trees, Ambiguity, Normal Forms.		<a href="https://www.youtube.com/watch?v=Ao11tW5mfAs">https://www.youtube.com/watch?v=Ao11tW5mfAs</a> <a href="https://www.youtube.com/watch?v=PUWBnHlisXc">https://www.youtube.com/watch?v=PUWBnHlisXc</a>		11/7/2020
	Pushdown Automata (PDA)		<a href="https://www.youtube.com/watch?v=4ejlAmp_Atw">https://www.youtube.com/watch?v=4ejlAmp_Atw</a>		11/7/2020
	Definition of non-deterministic PDA,		<a href="https://www.youtube.com/results?search_query=Definition+of+non-deterministic+PDA">https://www.youtube.com/results?search_query=Definition+of+non-deterministic+PDA</a>		11/10/2020
	Deterministic and Non-deterministic PDAs,		<a href="https://www.youtube.com/watch?v=uMuo-HgnhrE">https://www.youtube.com/watch?v=uMuo-HgnhrE</a>		11/10/2020
	Nondeterminism, and Halting		<a href="https://www.youtube.com/watch?v=Pm3JgW17qEw">https://www.youtube.com/watch?v=Pm3JgW17qEw</a>		11/21/2020
	alternative equivalent definitions of a PDA, alternatives that are not equivalent to PDA.		<a href="https://www.youtube.com/watch?v=FjGrU7vczyg">https://www.youtube.com/watch?v=FjGrU7vczyg</a>		11/21/2020
Module 4	Algorithms and Decision Procedures for CFLs	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=dYgs_nhK0X8">https://www.youtube.com/watch?v=dYgs_nhK0X8</a>	<a href="http://www.techjournal.in/getfile.php?file=m4_ch14.pdf">http://www.techjournal.in/getfile.php?file=m4_ch14.pdf</a>	11/24/2020
	Decidable questions, Un-decidable questions		<a href="https://www.youtube.com/watch?v=MtkeLT_JDYs">https://www.youtube.com/watch?v=MtkeLT_JDYs</a>		11/24/2020
	Turing Machine: Turing machine model, Representation		<a href="https://www.youtube.com/watch?v=H_uFggDOrLI">https://www.youtube.com/watch?v=H_uFggDOrLI</a>		11/28/2020

	Language acceptability by TM, design of TM		<a href="https://www.youtube.com/watch?v=bBSM3rs3hDw">https://www.youtube.com/watch?v=bBSM3rs3hDw</a> <a href="https://www.youtube.com/watch?v=3s72yFBIRDm">https://www.youtube.com/watch?v=3s72yFBIRDm</a>		11/28/2020
	Techniques for TM construction		<a href="https://www.youtube.com/watch?v=vhSMp91tS6k">https://www.youtube.com/watch?v=vhSMp91tS6k</a>		12/01/2020
	Variants of Turing Machines (TM)		<a href="https://www.youtube.com/watch?v=hvw_hQLTxDw">https://www.youtube.com/watch?v=hvw_hQLTxDw</a>		12/01/2020
	The model of Linear Bounded automata		<a href="https://www.youtube.com/watch?v=UH02xIR9A2M">https://www.youtube.com/watch?v=UH02xIR9A2M</a>		12/05/2020
Module 5	Decidability: Definition of an algorithm, decidability	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=7atGWyLTybw">https://www.youtube.com/watch?v=7atGWyLTybw</a>	<a href="https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-045j-automata-computability-and-complexity-spring-2011/lecture-notes/MIT6_045JS11lec07.pdf">https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-045j-automata-computability-and-complexity-spring-2011/lecture-notes/MIT6_045JS11lec07.pdf</a>	12/05/2020
	decidable languages, Undecidable languages		<a href="https://www.youtube.com/watch?v=RNWqwqXxv0c">https://www.youtube.com/watch?v=RNWqwqXxv0c</a>		12/08/2020
	halting problem of TM, Post correspondence problem		<a href="https://youtu.be/hbcLktIEe2w">https://youtu.be/hbcLktIEe2w</a> <a href="https://www.youtube.com/watch?v=VZN110Goqr8">https://www.youtube.com/watch?v=VZN110Goqr8</a>		12/08/2020
	Complexity: Growth rate of functions, the classes of P and NP		<a href="https://www.youtube.com/watch?v=AdmmEEWyZlg">https://www.youtube.com/watch?v=AdmmEEWyZlg</a> <a href="https://www.youtube.com/watch?v=5GckGJ3lbm0">https://www.youtube.com/watch?v=5GckGJ3lbm0</a>		12/15/2020
	Quantum Computation: quantum computers, Church-Turing thesis.		<a href="https://www.youtube.com/watch?v=KwrhaAMq9nw">https://www.youtube.com/watch?v=KwrhaAMq9nw</a>		12/19/2020
	Applications: Defining syntax of programming language, Security		<a href="https://www.youtube.com/watch?v=U9VWiiUrMDk">https://www.youtube.com/watch?v=U9VWiiUrMDk</a>		12/22/2020

## 18CS55-Application Development using Python

Modules	Topics	PPT	Video Links	E- Materials	Date
<b>Module 1</b>	Why study the Theory of Computation, Languages and Strings	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=dgTS-h-4naU">https://www.youtube.com/watch?v=dgTS-h-4naU</a>	<a href="https://drive.google.com/file/d/1aFHGFG2ywoFDPpz_38kv1JjvBFLC6N3y/view?usp=sharing">https://drive.google.com/file/d/1aFHGFG2ywoFDPpz_38kv1JjvBFLC6N3y/view?usp=sharing</a>	9/2/2020
	Language Hierarchy, Computation				9/5/2020
	Finite State Machines (FSM): Deterministic FSM		<a href="https://www.youtube.com/watch?v=x0ihqiiRXo8&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=2">https://www.youtube.com/watch?v=x0ihqiiRXo8&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=2</a> <a href="https://www.youtube.com/watch?v=LOZxYBOKRLg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=3">https://www.youtube.com/watch?v=LOZxYBOKRLg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=3</a>		9/9/2020
	Regular languages, Designing FSM		<a href="https://www.youtube.com/watch?v=M84oEgYgw6U&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=4">https://www.youtube.com/watch?v=M84oEgYgw6U&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=4</a>		9/12/2020
	More problems on Designing FSM		<a href="https://www.youtube.com/watch?v=VIHlbKz6Ytg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=7">https://www.youtube.com/watch?v=VIHlbKz6Ytg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=7</a>		9/16/2020

	More problems on Designing FSM		<a href="https://www.youtube.com/watch?v=k6yLHAheAeU&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=8">https://www.youtube.com/watch?v=k6yLHAheAeU&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=8</a>		9/19/2020
	Nondeterministic FSMs		<a href="https://www.youtube.com/watch?v=quBzmvxzkw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=5">https://www.youtube.com/watch?v=quBzmvxzkw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=5</a>		9/23/2020
	From FSMs to Operational Systems, Simulators for FSMs		<a href="https://www.youtube.com/watch?v=DI0XcLkQaqw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=9">https://www.youtube.com/watch?v=DI0XcLkQaqw&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=9</a> <a href="https://www.youtube.com/watch?v=fx9ZCPfzvgg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=10">https://www.youtube.com/watch?v=fx9ZCPfzvgg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=10</a> <a href="https://www.youtube.com/watch?v=jN8zvENdjBg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=11">https://www.youtube.com/watch?v=jN8zvENdjBg&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=11</a>		9/26/2020
	Minimizing FSMs, Canonical form of Regular languages		<a href="https://www.youtube.com/watch?v=GqGA5Hx9ioA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=16">https://www.youtube.com/watch?v=GqGA5Hx9ioA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=16</a> <a href="https://www.youtube.com/watch?v=FKPYRi39bhA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=17">https://www.youtube.com/watch?v=FKPYRi39bhA&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=17</a>		9/30/2020



	Finite State Transducers, Bidirectional Transducers.		<a href="https://www.youtube.com/watch?v=RkdZMJPIhJE&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=12">https://www.youtube.com/watch?v=RkdZMJPIhJE&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=12</a> <a href="https://www.youtube.com/watch?v=ADQWp8ZrEo4&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=13">https://www.youtube.com/watch?v=ADQWp8ZrEo4&amp;list=PLWPirh4EWFpH0W_3IQvvedUh3GaPnMUTT&amp;index=13</a>		10/7/2020
<b>Module 2</b>	Regular Expressions (RE): what is a RE?	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=upu_TeZImN0">https://www.youtube.com/watch?v=upu_TeZImN0</a> <a href="https://www.youtube.com/watch?v=FOhEmW_nMRs&amp;list=PLBlnK6fEyqRgp46KUv4ZY69yXmpwKOlev&amp;index=50">https://www.youtube.com/watch?v=FOhEmW_nMRs&amp;list=PLBlnK6fEyqRgp46KUv4ZY69yXmpwKOlev&amp;index=50</a>	<a href="https://drive.google.com/file/d/1PaTnHmmlEOkgNCDkGnVMY5w49yTxSQqM/view?usp=sharing">https://drive.google.com/file/d/1PaTnHmmlEOkgNCDkGnVMY5w49yTxSQqM/view?usp=sharing</a>	10/10/2020
	Kleene's theorem		<a href="https://www.youtube.com/watch?v=62JAY4oH6IU">https://www.youtube.com/watch?v=62JAY4oH6IU</a> <a href="https://www.youtube.com/watch?v=zSHS_7omxRY">https://www.youtube.com/watch?v=zSHS_7omxRY</a>		10/14/2020
	Applications of REs, Manipulating and Simplifying REs		<a href="https://www.youtube.com/watch?v=SmT1DXLI3f4">https://www.youtube.com/watch?v=SmT1DXLI3f4</a>		10/17/2020
	Regular Grammars: Definition, Regular Grammars and Regular languages.		<a href="https://www.youtube.com/watch?v=WgEsPTAL55Q">https://www.youtube.com/watch?v=WgEsPTAL55Q</a> <a href="https://www.youtube.com/watch?v=WrzaPNj9OZ4">https://www.youtube.com/watch?v=WrzaPNj9OZ4</a>		10/21/2020
	Regular Languages (RL) and Non-regular Languages: Closure properties of RLs, to show some languages are not RLs.		<a href="https://www.youtube.com/watch?v=dikEDuepOtl">https://www.youtube.com/watch?v=dikEDuepOtl</a> <a href="https://www.youtube.com/watch?v=Ty9tpikilAo">https://www.youtube.com/watch?v=Ty9tpikilAo</a>		10/28/2020

			<a href="https://www.youtube.com/watch?v=kZzH8E-s-9o">https://www.youtube.com/watch?v=kZzH8E-s-9o</a>		
<b>Module 3</b>	CFG: Introduction to Rewrite Systems and Grammars	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=dfbXx5JXL1M">https://www.youtube.com/watch?v=dfbXx5JXL1M</a>	<a href="https://www.univ-orleans.fr/lifo/Members/Mirian.Halfeld/Cours/TLComp/l3-CFG.pdf">https://www.univ-orleans.fr/lifo/Members/Mirian.Halfeld/Cours/TLComp/l3-CFG.pdf</a>	11/04/2020
	CFG's and languages, designing CFGs, simplifying CFGs		<a href="https://www.youtube.com/watch?v=nMwtlITFSqjo">https://www.youtube.com/watch?v=nMwtlITFSqjo</a> <a href="https://www.youtube.com/watch?v=HAloLSHpLic">https://www.youtube.com/watch?v=HAloLSHpLic</a> <a href="https://www.youtube.com/watch?v=TDcQ-5Q6czQ">https://www.youtube.com/watch?v=TDcQ-5Q6czQ</a>		11/04/2020
	proving that a Grammar is correct, Derivation and Parse trees, Ambiguity, Normal Forms.		<a href="https://www.youtube.com/watch?v=Ao11tW5mfAs">https://www.youtube.com/watch?v=Ao11tW5mfAs</a> <a href="https://www.youtube.com/watch?v=PUWBnHlisXc">https://www.youtube.com/watch?v=PUWBnHlisXc</a>		11/7/2020
	Pushdown Automata (PDA)		<a href="https://www.youtube.com/watch?v=4ejiAmp_Atw">https://www.youtube.com/watch?v=4ejiAmp_Atw</a>		11/7/2020
	Definition of non-deterministic PDA,		<a href="https://www.youtube.com/results?search_query=Definition+of+non-deterministic+PDA">https://www.youtube.com/results?search_query=Definition+of+non-deterministic+PDA</a>		11/10/2020
	Deterministic and Non-deterministic PDAs,		<a href="https://www.youtube.com/watch?v=uMuo-HgnhrE">https://www.youtube.com/watch?v=uMuo-HgnhrE</a>		11/10/2020
	Nondeterminism, and Halting		<a href="https://www.youtube.com/watch?v=Pm3JgW17qEw">https://www.youtube.com/watch?v=Pm3JgW17qEw</a>		11/21/2020
	alternative equivalent definitions of a PDA, alternatives that are not equivalent to PDA.		<a href="https://www.youtube.com/watch?v=FjGrU7vczyg">https://www.youtube.com/watch?v=FjGrU7vczyg</a>		11/21/2020
<b>Module 4</b>	Algorithms and Decision Procedures for CFLs	Will be mailed to	<a href="https://www.youtube.com/watch?v=dYgs_nhK0X8">https://www.youtube.com/watch?v=dYgs_nhK0X8</a>	<a href="http://www.techjourney.in/getfile.php?file=m4_ch14.pdf">http://www.techjourney.in/getfile.php?file=m4_ch14.pdf</a>	11/24/2020

	Decidable questions, Un-decidable questions	group mail ID	<a href="https://www.youtube.com/watch?v=MtkeLT_JDys">https://www.youtube.com/watch?v=MtkeLT_JDys</a>		11/24/2020
	Turing Machine: Turing machine model, Representation		<a href="https://www.youtube.com/watch?v=H_uFggDOrLI">https://www.youtube.com/watch?v=H_uFggDOrLI</a>		11/28/2020
	Language acceptability by TM, design of TM		<a href="https://www.youtube.com/watch?v=bBSM3rs3hDw">https://www.youtube.com/watch?v=bBSM3rs3hDw</a> <a href="https://www.youtube.com/watch?v=3s72yFBIRDm">https://www.youtube.com/watch?v=3s72yFBIRDm</a>		11/28/2020
	Techniques for TM construction		<a href="https://www.youtube.com/watch?v=vhSMp91tS6k">https://www.youtube.com/watch?v=vhSMp91tS6k</a>		12/01/2020
	Variants of Turing Machines (TM)		<a href="https://www.youtube.com/watch?v=hww_hQLTxDw">https://www.youtube.com/watch?v=hww_hQLTxDw</a>		12/01/2020
	The model of Linear Bounded automata		<a href="https://www.youtube.com/watch?v=UH02xIR9A2M">https://www.youtube.com/watch?v=UH02xIR9A2M</a>		12/05/2020
<b>Module 5</b>	Decidability: Definition of an algorithm, decidability	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=7atGWyLTybw">https://www.youtube.com/watch?v=7atGWyLTybw</a>	<a href="https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-045j-automata-computability-and-complexity-spring-2011/lecture-notes/MIT6_045JS11_lec07.pdf">https://ocw.mit.edu/courses/electrical-engineering-and-computer-science/6-045j-automata-computability-and-complexity-spring-2011/lecture-notes/MIT6_045JS11_lec07.pdf</a>	12/05/2020
	decidable languages, Undecidable languages		<a href="https://www.youtube.com/watch?v=RNWqwgXxv0c">https://www.youtube.com/watch?v=RNWqwgXxv0c</a>		12/08/2020
	halting problem of TM, Post correspondence problem		<a href="https://youtu.be/hbcLktIEe2w">https://youtu.be/hbcLktIEe2w</a> <a href="https://www.youtube.com/watch?v=VZNN10Goqr8">https://www.youtube.com/watch?v=VZNN10Goqr8</a>		12/08/2020
	Complexity: Growth rate of functions, the classes of P and NP		<a href="https://www.youtube.com/watch?v=AdmmEEWyZlg">https://www.youtube.com/watch?v=AdmmEEWyZlg</a> <a href="https://www.youtube.com/watch?v=5GckGJ3lbn0">https://www.youtube.com/watch?v=5GckGJ3lbn0</a>		12/15/2020
	Quantum Computation: quantum computers, Church-Turing thesis.		<a href="https://www.youtube.com/watch?v=KwrhaAMq9nw">https://www.youtube.com/watch?v=KwrhaAMq9nw</a>		12/19/2020
	Applications: Defining syntax of programming language, Security		<a href="https://www.youtube.com/watch?v=U9VWiiUjMDk">https://www.youtube.com/watch?v=U9VWiiUjMDk</a>		12/22/2020

## 18CS56-Unix Programming

Modules	Topics [1hr each]	PPT	Video Links	E- Materials	Date [2hrs]
<b>Module 1: Introduction and Unix Files</b>	Introduction to Unix, Basics of Operating System	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=vLPdBp9vv9Y">https://www.youtube.com/watch?v=vLPdBp9vv9Y</a>	<a href="https://classroom.google.com/c/MTQzOTQwMDQ5MzU5/m/MTU1MTE1NTc1NzIw/details">https://classroom.google.com/c/MTQzOTQwMDQ5MzU5/m/MTU1MTE1NTc1NzIw/details</a>	9/1/2020
	Unix Architecture. POSIX Specifications				9/4/2020
	System Boot up, Login to Unix, SU Command		<a href="https://www.youtube.com/watch?v=vLPdBp9vv9Y">https://www.youtube.com/watch?v=vLPdBp9vv9Y</a>		9/8/2020
	Internal and external commands, Some basics commands		<a href="https://www.youtube.com/watch?v=vLPdBp9vv9Y">https://www.youtube.com/watch?v=vLPdBp9vv9Y</a>		9/11/2020
	Knowing your terminal, Settings characteristics of terminal				9/15/2020
	Unix file types, Directory related commands, File related commands		<a href="https://www.youtube.com/watch?v=BFhIldUx5mI">https://www.youtube.com/watch?v=BFhIldUx5mI</a>		9/18/2020
	File Permissions, Changing file Permissions		<a href="https://www.youtube.com/watch?v=9fu6nlHyk7Q">https://www.youtube.com/watch?v=9fu6nlHyk7Q</a>		9/22/2020
	File Ownership, Changing file Ownership		<a href="https://www.youtube.com/watch?v=fBwIDN7u9bM&amp;pbjreload=101">https://www.youtube.com/watch?v=fBwIDN7u9bM&amp;pbjreload=101</a>		9/25/2020
<b>Module 2: File attributes and permissions:</b>	The ls command with options.Directory permissions.	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=rpXT2L3t1a8&amp;t=45s">https://www.youtube.com/watch?v=rpXT2L3t1a8&amp;t=45s</a>	<a href="https://classroom.google.com/c/MTQzOTQwMDQ5MzU5/m/MTU1MTE1NTc1NzIw/details">https://classroom.google.com/c/MTQzOTQwMDQ5MzU5/m/MTU1MTE1NTc1NzIw/details</a>	9/29/2020
	The shells interpretive cycle: Wild cards. Removing the special meanings of wild cards.		<a href="https://www.youtube.com/watch?v=mEHIXZeHVFE">https://www.youtube.com/watch?v=mEHIXZeHVFE</a>		2/10/2020
	Three standard files and		<a href="https://www.youtube.com/watch">https://www.youtube.com/watch</a>		6/10/2020

	redirection.		<a href="https://www.youtube.com/watch?v=SP0gDpamofY">?v=SP0gDpamofY</a>		
	Connecting commands: Pipe.		<a href="https://www.youtube.com/watch?v=vPYsoiT99Xk">https://www.youtube.com/watch?v=vPYsoiT99Xk</a>		9/10/2020
	Basic and Extended regular expressions. The grep, egrep.	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=IFUA3rSHd1g">https://www.youtube.com/watch?v=IFUA3rSHd1g</a>	<a href="https://classroom.google.com/c/MTQzOTQwMDQ5MzU5/m/MTU1MTE1NTc1NzIw/details">https://classroom.google.com/c/MTQzOTQwMDQ5MzU5/m/MTU1MTE1NTc1NzIw/details</a>	13/10/2020
	Typical examples involving different regular expressions.		<a href="https://www.youtube.com/watch?v=IFUA3rSHd1g">https://www.youtube.com/watch?v=IFUA3rSHd1g</a>		16/10/2020
	Shell programming: Ordinary and environment variables.		<a href="https://www.youtube.com/watch?v=WhqfbwQbWVE">https://www.youtube.com/watch?v=WhqfbwQbWVE</a>		20/10/2020
	The .profile. Read and readonly commands.		<a href="https://www.youtube.com/watch?v=HjxokBDacOM">https://www.youtube.com/watch?v=HjxokBDacOM</a>		23/10/2020
	Command line arguments. exit and exit status of a command.		<a href="https://www.youtube.com/watch?v=aEWoH_BJ6_Q">https://www.youtube.com/watch?v=aEWoH_BJ6_Q</a>		27/10/2020
<b>Module 3:</b>	General File APIs, File and Record Locking, Directory File APIs	Will be mailed to group mail ID	<a href="https://www.youtube.com/watch?v=UMa6aBJTOPs">https://www.youtube.com/watch?v=UMa6aBJTOPs</a>	<a href="https://www.slideshare.net/1987suni/unix-file-apis-16271500">https://www.slideshare.net/1987suni/unix-file-apis-16271500</a>	10/11/2020
			<a href="https://www.youtube.com/watch?v=0wrdcxkgujc">https://www.youtube.com/watch?v=0wrdcxkgujc</a>		
	, Device File APIs, FIFO File APIs, Symbolic Link File APIs		<a href="https://www.softprayog.in/programming/interprocess-communication-using-fifos-in-linux">https://www.softprayog.in/programming/interprocess-communication-using-fifos-in-linux</a>	<a href="https://www.pcs.cnu.edu/~mzhang/CPSC495C/07_Unix&amp;c/t/sld017.htm">https://www.pcs.cnu.edu/~mzhang/CPSC495C/07_Unix&amp;c/t/sld017.htm</a>	13/11/2020
	UNIX Processes and Process Control, Process Termination, Command-Line Arguments, Environment List			<a href="https://www.cs.auckland.ac.nz/courses/compsci340s2c/lectures/lecture06.pdf">https://www.cs.auckland.ac.nz/courses/compsci340s2c/lectures/lecture06.pdf</a>	17/11/2020
	Memory Layout of a C Program, Shared Libraries, Memory Allocation, Environment Variables, setjmp and longjmp Functions			<a href="https://www.youtube.com/watch?v=cGi-mb2SWHQ">https://www.youtube.com/watch?v=cGi-mb2SWHQ</a>	<a href="https://www.geeksforgeeks.org/g-fact22-concept-of-setjmp-and-longjmp/">https://www.geeksforgeeks.org/g-fact22-concept-of-setjmp-and-longjmp/</a>

	getrlimit, setrlimit Functions, UNIX Kernel Support for Processes.		<a href="https://www.youtube.com/watch?v=nRRIf33Arog">https://www.youtube.com/watch?v=nRRIf33Arog</a>	<a href="https://www.tutorialspoint.com/unix_system_calls/getrlimit.htm">https://www.tutorialspoint.com/unix_system_calls/getrlimit.htm</a>	24/11/2020
	fork, vfork, exit, wait, waitpid, wait3, wait4 Functions, exec Functions		<a href="https://www.youtube.com/watch?v=AyZeHBPkDms">https://www.youtube.com/watch?v=AyZeHBPkDms</a>	<a href="https://www.linuxtechi.com/learn-use-fork-vfork-wait-exec-system-calls-linux/">https://www.linuxtechi.com/learn-use-fork-vfork-wait-exec-system-calls-linux/</a>	27/11/2020
	Race condition,		<a href="https://www.youtube.com/watch?v=mGyHzQOHCJw">https://www.youtube.com/watch?v=mGyHzQOHCJw</a>	<a href="http://dreamchaser1986unixdev.blogspot.com/2014/09/unix-prog-race-condition.html">http://dreamchaser1986unixdev.blogspot.com/2014/09/unix-prog-race-condition.html</a>	1/12/2020
<b>Module 4</b>	Changing User IDs and Group IDs, Interpreter Files, system Function, Process Accounting, User Identification, Process Times, I/O Redirection.	Will be mailed to group mail ID		<a href="https://www.tutorialspoint.com/unix_system_calls/times.htm">https://www.tutorialspoint.com/unix_system_calls/times.htm</a>	4/12/2020
	Pipes, popen, pclose Functions, Coprocesses		<a href="https://www.youtube.com/watch?v=7bNMkvcOKlc">https://www.youtube.com/watch?v=7bNMkvcOKlc</a>	<a href="https://pubs.opengroup.org/onlinepubs/009695399/functions/popen.html">https://pubs.opengroup.org/onlinepubs/009695399/functions/popen.html</a>	8/12/2020
	FIFOs, System V IPC, Message Queues, Semaphores in unix		<a href="https://www.softprayog.in/programming/interprocess-communication-using-system-v-message-queues-in-linux">https://www.softprayog.in/programming/interprocess-communication-using-system-v-message-queues-in-linux</a>	<a href="https://www.softprayog.in/programming/interprocess-communication-using-system-v-message-queues-in-linux">https://www.softprayog.in/programming/interprocess-communication-using-system-v-message-queues-in-linux</a>	11/12/2020
	Client-Server Properties, Stream Pipes, Passing File Descriptors		<a href="https://www.softprayog.in/programming/interprocess-communication-using-pipes-in-linux">https://www.softprayog.in/programming/interprocess-communication-using-pipes-in-linux</a>	<a href="https://www.tutorialspoint.com/unix_sockets/socket_core_functions.htm">https://www.tutorialspoint.com/unix_sockets/socket_core_functions.htm</a>	15/12/2020
	, An Open Server-Version 1, Client-Server Connection Functions.		<a href="https://www.softprayog.in/programming/interprocess-communication-using-pipes-in-linux">https://www.softprayog.in/programming/interprocess-communication-using-pipes-in-linux</a>	<a href="https://www.tutorialspoint.com/unix_sockets/socket_core_functions.htm">https://www.tutorialspoint.com/unix_sockets/socket_core_functions.htm</a>	18/12/2020

<b>Module5</b>	Signals: The UNIX Kernel Support for Signals, signal, Signal Mask, sigaction, The SIGCHLD Signal and the waitpid Function	Will be mailed to group mail ID	<a href="https://www.softprayog.in/programming/signals-in-linux">https://www.softprayog.in/programming/signals-in-linux</a>	<a href="https://webdocs.cs.ualberta.ca/~tony/C379/C379Labs/Lab3/wait.html">https://webdocs.cs.ualberta.ca/~tony/C379/C379Labs/Lab3/wait.html</a>	22/12/2020
	The sigsetjmp and siglongjmp Functions		<a href="https://www.softprayog.in/programming/signals-in-linux">https://www.softprayog.in/programming/signals-in-linux</a>	<a href="http://poincare.matf.bg.ac.rs/~ivana/courses/ps/sistemi_knjige/pomocno/apue/APUE/0201433079/ch10lev1sec15.html">http://poincare.matf.bg.ac.rs/~ivana/courses/ps/sistemi_knjige/pomocno/apue/APUE/0201433079/ch10lev1sec15.html</a>	26/12/2020
	,Kill, Alarm, Interval Timers, POSIX.lb Timers. Daemon Processes: Introduction, Daemon Characteristics, Coding Rules, Error Logging, Client-Server Model.		<a href="https://www.youtube.com/watch?v=rj2LRRxspvM">https://www.youtube.com/watch?v=rj2LRRxspvM</a>	<a href="https://en.wikipedia.org/wiki/Daemon_(computing)">https://en.wikipedia.org/wiki/Daemon_(computing)</a>	26/12/2020