

5th Semester CSE 18CS51 MANAGEMENT AND ENTREPRENEURSHIP FOR IT INDUSTRY

Modules	Topics	PPT	Video Links	E- Materials		Date
Module 4	Preparation of project and ERP - meaning of project, project identification, project selection,	Will be mailed to group mail Id	https://www.youtube.com/watch?v=6Qj9RNXTJ4Q&t=9s	https://drive.google.com/file/d/1FMtDouWcjW12HT31km22lRXJtZ-advA/view	December 1 st Week	Online Class
	Project report, need and significance of project report, contents, formulation,		https://www.youtube.com/watch?v=dzQxOmMY1iY			Online Class
	Guidelines by planning commission for project report,		https://www.youtube.com/watch?v=dzQxOmMY1iY			Online Class
	Enterprise Resource Planning: Meaning and Importance- ERP		https://www.youtube.com/watch?v=c9HfNg4a_Og			Online Class
	Functional areas of Management – Marketing / Sales- Supply Chain Management		https://www.youtube.com/watch?v=c9HfNg4a_Og			Online Class
	Finance and Accounting – Human Resources		https://www.youtube.com/watch?v=INphwc14X7o			Online Class
	Types of reports and methods of report generation		https://www.youtube.com/watch?v=INphwc14X7o			Online Class
Module 5	Micro and Small Enterprises: Definition of	Will be mailed	https://www.youtube.com/watch?v=4gBpfi-gXhc		December 2 nd Week	Online Class

micro and small enterprises	to group mail Id				
Characteristics and advantages of micro and small enterprises,		https://www.youtube.com/watch?v=4gBpLi-gXhc		December 3 rd Week	Online Class
Steps in establishing micro and small enterprises,		https://www.youtube.com/watch?v=m2vt8uOEXoY	https://drive.google.com/file/d/1laDtjr4-Rj2h0wXY_hf1sx6IcVcyNs0w/view		Online Class
Government of India industrial policy 2007 on micro and small enterprises,		https://www.youtube.com/watch?v=gHDMp6JSBHc			Online Class
Case study (Microsoft), Case study (Captain G R Gopinath)		https://www.youtube.com/watch?v=4gBpLi-gXhc			Online Class
Case study (N R Narayana Murthy & Infosys),				December 4 th Week	Online Class
Institutional support: MSME-DI, NSIC, SIDBI, KIADB, KSSIDC,		https://www.youtube.com/watch?v=WvduZOWoft0	Online Class		
TECSOK, KSFC, DIC and District level single window agency			Online Class		
Introduction to IPR.		Online Class			

5th Sem CSE 18CS52 Computer Networks (Module 3)

Modules	Topics [1hr each]	PPT	Video Links	E- Materials		Date [2hrs]	
Module 3: The Network layer	What's Inside a Router?: Input Processing,	Will be mailed to group mail ID	https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_	E-Materials are shared in Google classroom	December Week 1	Online Class	
	Switching, Output Processing, Where Does Queuing Occur?		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_				Online Class
	Routing control plane, IPv6, A Brief foray into IP Security,		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_				
	Routing Algorithms: The Link-State (LS) Routing Algorithm,		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_		December week 2	Online Class	
	The Distance-Vector (DV) Routing Algorithm.		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_				
	Hierarchical Routing, Routing in the Internet,		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_				
	Intra-AS Routing in the Internet: RIP,		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_				
	Intra-AS Routing in the Internet: OSPF,		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_				
	Inter/AS Routing: BGP,		https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_				
Broadcast Routing Algorithms and Multicast	https://www.youtube.com/watch?v=JFF2vJaNOCw&list=PLxCzCOWd7aiGFBD2-2joCpWOLUrDLvVV_						

5th Sem CSE 18CS52 Computer Networks and Security (Module 4)

Modules	Topics [1hr each]	PPT	Video Links	E- Materials		Date [2hrs]
Module 5: Multimedia Networking:	Overview of Network Security:Elements of Network Security ,	Will be mailed to group mail ID	https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03	E-Materials are shared in Google classroom	December Week 3	Online Class
	Classification of Network Attacks ,Security Methods ,		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class
	Symmetric-Key Cryptography :Data Encryption Standard (DES),		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class
	Advanced Encryption Standard (AES) ,		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class
	Public-Key Cryptography :RSA Algorithm ,		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class

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	Diffie-Hellman Key-Exchange Protocol ,		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class
	Authentication :Hash Function , Secure Hash Algorithm (SHA) ,		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03		December Week 4	Online Class
	Digital Signatures ,		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class
	Firewalls and Packet Filtering ,		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class
	Packet Filtering , Proxy Server .		https://www.youtube.com/watch?v=VJelZrYc49c&list=PLLOxZwkBK52Ch0y2lLtfepy4Lt_SVkw03			Online Class

5th Semester CSE 18CS53 Database Management Systems

Modules	Topics	PPT	Video Links	E- Materials	Date [1hrs]		
Module 3	SQL : Advances Queries: More complex SQL retrieval queries	Will be mailed to group id	https://www.youtube.com/watch?v=y0m5N6DKUwY	https://drive.google.com/file/d/1iWwsJsVCLdT7Tw5xZ5-MLFTvbyXSsoUi/view	Online class – December 1 st Week		
	Specifying constraints as assertions and action triggers		https://www.youtube.com/watch?v=410g-jwKu9c				
	Views in SQL		https://www.youtube.com/watch?v=zUj1dH4IFPI				
	Schema change statements in SQL		https://www.youtube.com/watch?v=MzFkVf-KRZA				Online class – December 2 nd Week
	Database Application Development: Accessing databases from applications		https://www.youtube.com/watch?v=tfKVDU2PKNe				
	An introduction to JDBC		https://www.youtube.com/watch?v=geCCCVx-qhg				
	JDBC classes and interfaces		https://www.youtube.com/watch?v=y_YxwyYRJek				
	SQLJ, Stored procedures		https://www.youtube.com/watch?v=aWqmbSP-8Ws				
	The three-Tier application architecture, The presentation layer, The Middle Tier		https://www.youtube.com/watch?v=VyvTabQHevw				
Module 4	Normalization: Database Design Theory		https://www.youtube.com/watch?v=p-j9emhNVTg	https://drive.google.com/file/d/1thPPKiogPahPDkgVy9wkMg_A33ItPMjk/view	Online class – December 3 rd Week		

	Normalization using Functional Dependencies		https://www.youtube.com/watch?v=dR-jJimWWHA		Online class – December 4 th Week
	Normalization using Multivalued Dependencies		https://www.youtube.com/watch?v=VAOgUnro_sY		
	Informal design guidelines for relation schema		https://www.youtube.com/watch?v=NFk9sDJk50U		
	Normal Forms based on Primary Keys		https://www.youtube.com/watch?v=wmLjyUJXVwk		
	Second and Third Normal Forms		https://www.youtube.com/watch?v=tkbAA--wKOc		

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5 th Semester CSE 18CS54 AUTOMATA THEORY AND COMPUTABILITY						
Modules	Topics	PPT	Video Links	E- Materials		Date
Module 3	Derivation and Parse trees	Will be mailed to group mail Id	https://www.youtube.com/watch?v=u4-rpIIV9NI	https://drive.google.com/file/d/1_y-NMHj8GvhUmOjHa0iR13sO53JdAIBX/view?usp=sharing	December 1 st Week	Online Class
	Ambiguity, Normal Forms		https://www.youtube.com/watch?v=MdI2TI7zefY			Online Class
	Pushdown Automata (PDA): Definition of non-deterministic PDA		https://www.youtube.com/watch?v=4ejIAmp_Atw			Online Class
	Deterministic and Non-		https://www.youtube.com/watch?v=TE			Online Class

	deterministic PDAs		QcJybMMFU				
	Non-determinism and Halting		https://www.youtube.com/watch?v=gQnPM6sydkk		December 2 nd Week	Online Class	
	alternative equivalent definitions of a PDA		https://www.youtube.com/watch?v=6XZvw9W9QSc			Online Class	
	Alternatives that are not equivalent to PDA					Online Class	
Module 4	Context-Free and Non-Context-Free Languages	Will be mailed to group mail Id	https://www.youtube.com/watch?v=5_tfVe7ED3g&t=25s		December 3 rd Week	Online Class	
	Where do the Context-Free Languages(CFL) fit					Online Class	
	Showing a language is context-free				https://drive.google.com/file/d/1KdL0K87wVOZdZRoR6sc2MXyzwORvhtQI/view?usp=sharing	Online Class	
	Pumping theorem for CFL			https://www.youtube.com/watch?v=jRhqx1_KcCk		Online Class	
	More problems on pumping theorem			https://www.youtube.com/watch?v=eQ0XkUk3qGk		Online Class	
	Important closure properties of CFLs			https://www.youtube.com/watch?v=Mn0IAVNq-n4		December 4 th Week	Online Class
	Pumping theorem in conjunction with closure						Online Class

	properties					
	Deterministic CFLs, Algorithms and Decision Procedures for CFLs		https://www.youtube.com/watch?v=JfX7VK7ocRU			Online Class
	Decidable questions, Un- decidable questions					

5th Sem CSE 18CS55 Application Development using Python					
Modules	Topics [2 / 3 hr each]	PPT	Video Links	E-Material	Date[2 hrs]
Module 3	Reading and Writing Files:Files and File Paths, The os.path Module,				December First Week
	The File Reading/Writing Process, Saving Variables with the shelve Module	https://www.slideshare.net/mukeshnt/python-reading-and-writing-files	https://www.youtube.com/watch?v=Uh2ebFW8OYM	https://automatethebest.com/2e/chapter9/	
	Saving Variables with the pprint.pformat() Function				
	Project: Generating Random Quiz Files, Project: Multiclipboard				December Second Week
	Organizing Files:The	https://slideplayer.com/slide/16	https://www.youtube.com/w	https://automatethebest.com/2e/chapter9/	

	shutil Module, Walking a Directory Tree	520257/	atch?v=MRuq3SRXses	oringstuff.com/2e/c/hapter10/	
	Compressing Files with the zipfile Module, Project: Renaming Files with American-Style Dates to European-Style Dates	https://www.passeidireto.com/arquivo/84345827/al-sweigart-automate-the-boring-stuff-with-python-practical-programming-for-tota/6	https://www.codegrepper.com/code-examples/whatever/python+create+date+field		
	Project: Backing Up a Folder into a ZIP File,	https://stackoverflow.com/questions/458436/adding-folders-to-a-zip-file-using-python			
	Debugging:Raising Exceptions	https://docs.python.org/3/tutorial/errors.html			
	Getting the Traceback as a String		https://www.youtube.com/watch?v=x_ZnVVIWH_s	https://automatetheboringstuff.com/2e/c/hapter11/	December Third Week
	Assertions, Logging, IDLE's Debugger	https://www.youtube.com/watch?v=ChuU3NIYRLQ			
Module 4	Classes and objects,				December Fourth Week
	Object-oriented features, Printing objects, Another example		https://www.youtube.com/watch?v=wfcWRAXRVBA		
	A more complicated example,The init method	https://www.tutorialspoint.com/python/python_classes_objects.htm		http://greenteapress.com/thinkpython2/thinkpython2.pdf	
	The __str__ method, Operator overloading		https://www.youtube.com/watch?v=svWKZSW1_F4		
	Type-based dispatch, Polymorphism, Interface and implementation,		https://www.youtube.com/watch?v=QIXcKxsDoeI		

5th Sem CSE 18CS56 Unix Programming (Module 3)

Modules	Topics [1hr each]	PPT	Video Links	E- Materials	Date [1hrs]
Module 3: UNIX File APIs, UNIX Processes and Process Control	General file APIs File and Record Locking	Will be mailed to group mail ID	https://www.youtube.com/watch?v=NkXi52VDicQ	https://docs.oracle.com/cd/E19455-01/806-4750/6jdqdf1t4/index.htm#_1	Online
	Directory File APIs, Device file APIs, FIFO file APIs		https://www.youtube.com/watch?v=wRLiAq0K92Y	https://www.cs.huji.ac.il/course/2010/os/ex-slides/ex8_1.pdf	Online
	Symbolic Link file APIs		https://www.youtube.com/watch?v=u0F2mIh0iHk	https://docs.oracle.com/javase/tutorial/essential/iostream/links.html	Online
	Unix Processes-Introduction, main function, Process Termination, Command-line arguments		https://www.youtube.com/watch?v=SFc3jt8t5rU	https://notes.shichao.io/apue/ch7/	Online
	Environment List, Memory Layout of a C Program, Shared Libraries		https://www.youtube.com/watch?v=kpWG423uQIw	https://www.hackerearth.com/practice/notes/memory-layout-of-c-program/	Online
	Memory Allocation, Environment Variables, setjmp and longjmp Functions, Getrlimit, setrlimit functions		https://www.youtube.com/watch?v=z4MbsT9Eqx0	https://develloppaper.com/unix-environment-advanced-programming-process-environment/	Online
	UNIX kernel support for processes, Introduction, Process Identifiers, fork, fork		https://www.youtube.com/watch?v=PwxTbksJ2fo	https://www.cs.uregina.ca/Links/class-info/330/Fork/fork.html	Online

5th Sem CSE 18CS56 Unix Programming (Module 4)

Modules	Topics [1hr each]	PPT	Video Links	E- Materials	Date [1hrs]
Module 4: Overview of IPC Methods and Shared Memory	Changing User IDs and Group IDs, Interpreter files, System function, Process accounting	Will be mailed to group mail ID	https://www.youtube.com/watch?v=-OzmiIPOTxI	http://osr507doc.sco.com/en/OSAdminG/uaT.chguid.html	Online
	User Identification, Process Times, I/O Redirection		https://www.youtube.com/watch?v=5fnVr-zH-SE	https://www.digitalocean.com/community/tutorials/an-introduction-to-linux-i-o-redirection	Online
	Pipes, popen, pclose functions,		https://www.youtube.com/watch?v=Rsy1eTwkbEw	http://poincare.matf.bg.ac.rs/~ivana/courses/ps/sistemi_knjige/pomocno/apue/APUE/0201433079/ch15lev1sec3.html	Online
	Coprocesses, FIFOs, System V IPC,		https://www.youtube.com/watch?v=QM4GruXyVLs ,	https://docs.oracle.com/cd/E19455-01/806-4750/index.html	Online
	Message Queues, Semaphores		https://www.youtube.com/watch?v=JbmOegG9-JQ	https://docs.oracle.com/cd/E19683-01/816-5042/svipc-38596/index.html	Online
	Client -Server Properties, Stream pipes, Passing file Descriptors,		https://www.youtube.com/watch?v=KM5sRWAYqaw	https://informix.hcldoc.com/14.10/help/index.jsp?topic=%2Fcom.ibm.admin.doc%2Fids_admin_0134.htm	Online
	An open Server-Version 1, Client-Server Connection Functions		https://www.youtube.com/watch?v=eVYsIoIL2gE	https://notes.shichao.io/unp/ch5/	Online