

Name of the Faculty: Varsha Shrivastava

Subject: FCPC

Semester-I

- Web-links from NPTEL and other portals of E-learning (As per the prescribed syllabus by the University)

Section I: Fundamentals and Operating System			
S. No.	Topics	NPTEL links	Others links
1.	Evaluation of computers		www.b-u.ac.in/sde_book/advance_compu.pdf
2	Hardware organization of a computer		www.divms.uiowa.edu/~ghosh/1.21.04-2.5.04.pdf
3	Introduction to microprocessor, generations of microprocessor,	http://www.nptel.ac.in/courses/106108100/	https://en.wikipedia.org/wiki/Microprocessor
4	Input/output devices		https://en.wikipedia.org/wiki/Input/output
5	Input/output Ports and connectors		https://en.wikipedia.org/wiki/Computer_port_(hardware)
6	Introduction to operating system	http://www.nptel.ac.in/courses/106108101/	
7	functions of operating system	http://www.nptel.ac.in/courses/106108101/2	
8	classification of operating system		https://en.wikibooks.org/...Operating_Systems.../Operating_Systems/Ope
9	Basic introduction to DOS		www.imtech.res.in/raghava/slides/prephd/doslec.htm
10	UNIX OS	http://www.nptel.ac.in/courses/106108101/10	
SECTION –II: Basic Introduction to System Software and Problems and Basic Introduction to Computer Networks			
1	Machine Language, Assembly Language, Low level language		https://en.wikipedia.org/wiki/Low-level_programming_language

2	Highlevel languages, Types of high level languages		https://en.wikipedia.org/wiki/ High- level_programming_langua ge
3	compiler, interpreter, Assembler, Loader, linker		cs.gmu.edu/~setia/cs365- S02/assembler.pdf
4	Data Communication	http://www.nptel.ac.in/courses/1061050 80/	
5	Network Security	http://www.nptel.ac.in/courses/1061060 91/43	
6	Topology	http://www.nptel.ac.in/courses/1061050 81/2	
7	OSI reference model		https://en.wikipedia.org/wiki/ OSI_model
8	TCP/IP Model		https://en.wikipedia.org/wiki/ nternet_protocol_suite
	Transmission Media	http://www.nptel.ac.in/courses/1061050 80/4	
Section –III : An Overview of C Programming Language			
1	Constants, variables and Data types	http://nptel.ac.in/courses/106104128/5 http://nptel.ac.in/courses/106104128/20	
2.	Operators	http://nptel.ac.in/courses/106104128/6	
3.	Loops	http://nptel.ac.in/courses/106104128/7 http://nptel.ac.in/courses/106104128/13 http://nptel.ac.in/courses/106104128/15	
4	Functions	http://nptel.ac.in/courses/106104128/25 http://nptel.ac.in/courses/106104128/26	
5	Arrays	http://nptel.ac.in/courses/106104128/29 http://nptel.ac.in/courses/106104128/30	
6.	Strings	http://nptel.ac.in/courses/106104128/31	
7	Multi Dimensional Array	http://nptel.ac.in/courses/106104128/43	
8.	Structure	http://nptel.ac.in/courses/106104128/53 http://nptel.ac.in/courses/106104128/54	
Section-IV: Pointer and Dynamic Memory Allocation and File Management in C File Handling			

1	Pointers	http://nptel.ac.in/courses/106104128/32 http://nptel.ac.in/courses/106104128/33	
2	Functions and Pointer	http://nptel.ac.in/courses/106104128/34 http://nptel.ac.in/courses/106104128/38	
3	Pointers and Array	http://nptel.ac.in/courses/106104128/36	
4	Dynamic Memory Allocation	http://www.nptel.ac.in/courses/106105085/16	

Other relevant and interesting web-links

S.No.	Topics	NPTEL links	Others links
1.	What is engineering?		https://www.youtube.com/watch?v=bipTWWHya8A
2.	What is a Programming Language	http://www.nptel.ac.in/courses/106105085/1	