



KLE Society's
S. NIJALINGAPPA COLLEGE

II-Block, Rajajinagar, Bengaluru-10
Re-accredited by NAAC at A+ grade with 3.53 CGPA
College with UGC-STRIDE Component – I

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Department of BCA

Sl. No.	Topics Covered			Link (This link should have access only to the present-day class/s)	
1	Disk related commands and process states	Algebra, Minimizing Boolean Expression, SOP, POS, SSOP, SPOS	Introduction to Boolean	https://drive.google.com/drive/folders/1mfN-Vxax7trwnWsEdk56JtBORX9hSMB3?usp=sharing	
2	Hill cipher and Rotor Cipher	Process Transition & Process Commands	Basic Logic Gates	Introduction to K map, 2,3 4 variable k map, simplifying the equ	https://drive.google.com/drive/folders/10mDIM512bqOWHIVhFIXvmaltZmNcboKT?usp=sharing
3	Kernel data structure, User vs kernel node	Rotor Cipher, Transpositional Ciphers	Process transition and process commands	Data Transfer & Arithmetic Instructions	https://drive.google.com/drive/folders/1p2Dngtk1ZGUuO5xHP9thCSFW8Ee8aR-s?usp=sharing
4	Stream and Block Cipher	Kernel data structure,		UiPath Certification Course-Task Mining	https://drive.google.com/drive/folders/1GRQcFjrKiz93Z-WrGG7qHRyGWjdlqEkb?usp=sharing

		User vs kernel mode.			
5	Vi editor	Data Encryption Standard (DES)	- Basic Organization of computer	- Logical Micro operation	https://drive.google.com/drive/folders/1qMNYxytffpcIGS1xEHDK3F5abZCoYlcw?usp=sharing
6	Data Encryption Standard	Vi Editor	-Introduction to stack in 8085 Mp, Operations on stack in 8085 Mp		https://drive.google.com/drive/folders/1e-0K-rtWn_ikJoOvnREIyEDvlp1iPfd?usp=sharing
7	Vi editor commands	2DES, 3DES, AES	Vi editor commands		https://drive.google.com/drive/folders/11B-sXfuT4bxW-SVG64cH2baqRo_y8SXj?usp=sharing
8	Vi Editor Commands	Vi Editor Commands			https://drive.google.com/drive/folders/11EPb3Ox60aJoylw2rW-mb1cu8QA61KeX?usp=sharing
9	Shell-Interpretive Cycle, Pattern matching -the wild cards	Advanced Encryption Algorithm	Shell-Interpretive Cycle, s	- Reg Ref & mem Ref instructions	https://drive.google.com/drive/folders/10-WSiAZIDOW5EYdqFKvUu5yWBtRj408g?usp=sharing
10	Shell				https://drive.google.com/drive/folders/1H-vytvPzayksnM1po69UKbZQ1_11BVMG?usp=sharing
11	Shell commands				https://drive.google.com/drive/folders/1nTiOK75gqVhn3B9vMAdcHauxVyhC5DA7?usp=sharing
12	AES-Decryption , analysis, AES & DES comparison	Escape & quoting commands			https://drive.google.com/drive/folders/1Ezn8fgvrTDI45nGT9TmqHRxRhbzQCK1?usp=sharing
13	Escaping and Quoting	Block cipher modes of operation			https://drive.google.com/drive/folders/1rcSQb2_Gen1XZI3DI2XMIET9yo8s2CIM?usp=sharing

	commands			
14	Block cipher modes of operation	Escaping and quoting commands		https://drive.google.com/drive/folders/1LyX3at7FsrlDz1R7Nx_0msWcPX1HdHX?usp=sharing
15	Redirection- The three standard files	Stream cipher	Redirection-The three standard files	https://drive.google.com/drive/folders/1ie6cyE9YFuhu969feiBG3Ke0CCqoVU4T?usp=sharing
16	Standard output & Error Files			https://drive.google.com/drive/folders/1nJWBtay6TBAZyrUHhRjK3TZDJBMRN2Z?usp=sharing
17	Standard output & error files, Filters	Standard Error files. Filters, Pipes		https://drive.google.com/drive/folders/1BScP4uSEPiU_d18sqQOwDAz7yZtTCqcV?usp=sharing
18	Primes, Euler's phi function	Filters, Pipes		https://drive.google.com/drive/folders/1E78LIN6D06X5F-e210UMOZO7h7cX2r2F?usp=sharing
19	Primes, Euler's phi function	Filters, Pipes		https://drive.google.com/drive/folders/1ALiz15Qp969_Ik2AMDEoLE3X2hpQbAFv?usp=sharing
20	Euler's phi function, Fermat's little theorem	Shell variables, Effects of quoting & escaping		https://drive.google.com/drive/folders/18vfFm_kDTmOtXCJugUq_mbavISreGxqU?usp=sharing
21	Effects of quoting, shell variables	Fermat's theorem & Chinese Remainder Theorem		https://drive.google.com/drive/folders/1GL8Y2jB6sP3M-Ed6Bea4eXRILeZFWVa-?usp=sharing
22	Types of shell variables & positional parameters			https://drive.google.com/drive/folders/123ntG4lxP30VijgjH40kSaHo-TvxmUTk?usp=sharing
23	Modulo Counter Problems discussed	Procedures and Functions	Procedures and Functions	https://drive.google.com/drive/folders/1F6cVcyveN0ntX7BUG47w10LZLVYeYT9-?usp=sharing
24	Arrays and Examples	Arrays and Examples	NFA and Conversion using subset construction method	https://drive.google.com/drive/folders/19ajL1xGjaEzyoRxyWdrNzL8G0De30-DN?usp=sharing

25	Search algorithm	String Functions	String Functions	C Basics		https://drive.google.com/drive/folders/1Pbhidu1FJhFAo-tqijSoMR4oVjdfqk0V?usp=sharing
26	String Functions Continued	Epsilon NFA Started	Epsilon NFA Started			https://drive.google.com/drive/folders/1MI6NOn5SpEx5iVdItVd07NhZh0n6J1AH?usp=sharing
27	String Functions Revised	Epsilon NFA Problems and Difference between DFA, NFA, Epsilon NFA)		C++ Programming Concepts		https://drive.google.com/drive/folders/1IQQo5qyx1r0ae-ohUDq0Rt0kJKC9F3_Q?usp=sharing
28	Transportation problem (North-West Corner Method)	Revision (DFA Construction)	Windows Applications started basics	Transportation problem and Assignment Problem		https://drive.google.com/drive/folders/1Byr7w5S10u_GPSkmU99cpjvzsDTN8Tw8?usp=sharing
29	Revision (NFA to DFA)	Windows Applications started basics	Text Box, Buttons Explained	Sets and Relations	Group theory Concepts	https://drive.google.com/drive/folders/1xjl-7Kwz83mHtbqP2m7r_6HF6SWsLGcS?usp=sharing
30	Graph Theory (Part 1)	Combo box Control Examples	Graph Theory (Part 2)	Text Box and Button Examples	Graph Theory (Part 3)	https://drive.google.com/drive/folders/1N0c8zaRVCGWzxSGKiULw9v_FmW-17Z13?usp=sharing
31	Graph Theory (Part - 4)	Graph Theory Problems Solved		Computer Architecture	Computer Architecture	https://drive.google.com/drive/folders/1ZwQLg6bFNMoYxxFqiKOMsw5JhJqVNoBn?usp=sharing
32	Algorithms (Part 1)	Algorithms (Part 2)	Algorithms (Part 3)	Algorithms (Part 4)	Algorithms (Merge Sort)	https://drive.google.com/drive/folders/1ZoENXkv4KkSkBzRO0OUrX-qs0AQMTIF?usp=sharing

33	Propositional Logic (Part 1)	Propositional Logic (Part 2)	C++ OOPs			https://drive.google.com/drive/folders/1TbIrhEOXKTKIp-aB5VELL_0kO939TEqr?usp=sharing	
34	VI Sem (Class - 30) Regular expressions	Data structures Working Examples					https://drive.google.com/drive/folders/15K0DT3IADcqZ2x19PvhbJPvYG0HbJgCZ?usp=sharing
35	Table filling Problems	VB.NET Control examples					https://drive.google.com/drive/folders/1gDvaSachS-xBmZ4KLOJ5RAEgLOhd1xZ2?usp=sharing
36	Dialog Box Controls	Data structures Working Examples (Part 2)	Check Box and List Box controls			https://drive.google.com/drive/folders/1vk6BpGnhM2ypfhXhRdE_RR66a_LdStte?usp=sharing	
37	Operating System (Part 1)	Minimization of DFA	Dialog Box Controls and Picture BOX	(Class - 24) Radio Buttons and Check List Controls	Operating System (Part 2)	https://drive.google.com/drive/folders/1MuZtopaQ4ebzMbtQWBzVVjSyIjb_5fTa?usp=sharing	
38	Dialog BOX and Revision	Minimization problems solved	Operating System (Part - 3)	Operating System (Part - 4)	Participated in ATAL FDP	https://drive.google.com/drive/folders/1nn34IR4SdlmWksBSNuXMoWo7eMopBrhL?usp=sharing	
39	DBMS (Part 1)	Dialog Box controls	Minimization of DFA example	DBMS (Part 2)		https://drive.google.com/drive/folders/1bfYA5ru9tcaAz-GfotZsFw0D4fRNLdL?usp=sharing	
40	Obtain Regular Expressions	Print Dialog Box	Obtain Regular Expressions	DBMS (Part 3)		https://drive.google.com/drive/folders/1ichuHQArumaUZ1Z9GvCNAfPd_puHONlz?usp=sharing	
41	Obtain RE from FA using	Print Dialog	Timer Control	Computer Networks (Part 1)		https://drive.google.com/drive/folders/17xVE792iZ0g_eCbgr6nSPM1MgyvX6XTU?usp=sharing	

	kleene's Theorem	Box				
42	Sample practice programs(List)	Computer Networks (Part 2)	Open File Dialog Control and Timer concepts	Computer Networks and Artificial Intelligence		https://drive.google.com/drive/folders/1dVDkFRSoElf4kBsuxCGPX3a4I3u0nNLc?usp=sharing
43	Regular Expression by eliminating States	File Handling	Lists in VB.NET	Computer Networks and Artificial Intelligence (Few questions discussed)		https://drive.google.com/drive/folders/1XD7lhdfvwoS0muUJ9-fyW7ah1n91gTUd?usp=sharing
44	Exception Handling	Pumping Lemma Theorem	Data Structure and Huffmann Trees	Prove given Language is not Regular	Sample Questions Discussed	https://drive.google.com/drive/folders/1p7yxJPjRf4G72BhrD0bOEWT2ShTYaj6K?usp=sharing
45	Capability Maturity Model	File Handling	Regular Languages Properties	Introduction to JAVA		https://drive.google.com/drive/folders/1ieTDIwwOyxDFdSPCP13rUI1_5QTbVeR?usp=sharing
46	Grammars in Theory of Computation	Exception Handling	Obtain Grammars using FA			https://drive.google.com/drive/folders/1RXaWCkUvsWGSf-b9o1vd4EkXuf4Zc5fm?usp=sharing
47	Classes and Objects in JAVA	Context Free Language	Exception Handling	Classes and Object	Constructors, Static and this keyword	https://drive.google.com/drive/folders/1x_E-EAD3kRuiuUTrknvIxpI2JBMGwRwx?usp=sharing
48	Constructors and Destructors	Classes and Objects				https://drive.google.com/drive/folders/13y8mqutlHK64cAnWzmsU0spEVP3UVm2z?usp=sharing
49	problems on Newton's divided	problems on Numerical	Cartesian Product of sets, Relations			https://drive.google.com/drive/folders/10zfd0yoUOs6-0Yx7Wrso8cvO0sldhmEe?usp=sharing

	difference formula	Integration			
50	Gauss Elimination method	Types of Relations	Numerical Differentiation		https://drive.google.com/drive/folders/1s8QcbsFb_ZsdPSIWSTIUn2t4xKANArm2?usp=sharing
51	Problems on Numerical Differentiation	Problems on Gauss Elimination method	Problems on Relations		https://drive.google.com/drive/folders/1IR23NeJ4xep5YPmqTpHgu2VP1w41kgdU?usp=sharing
52	Problems on Gauss Elimination method continued	Numerical Integration	Types of functions: Problems		https://drive.google.com/drive/folders/15cUHECp6L3Q0WVdSKiZBBWkWI3Gqy-25?usp=sharing
53	Problems on Numerical Integration	LU decomposition method	Problems on inverse functions, Mathematical logic: Basic definitions		https://drive.google.com/drive/folders/1OyGy4b5fJm9r-U0Os8xyVcY4kHPSjOgf?usp=sharing
54	LU Decomposition Method: Problems	Problems on Numerical Integration continued	Mathematical Logic: Problems		https://drive.google.com/drive/folders/1ACsWlukzCI7T8_1nX1DIEgU bga4PnfIy?usp=sharing
55	Gauss Elimination Method	Doolittle's Method: Problems	Negation of a compound Statement		https://drive.google.com/drive/folders/1z84HHxBrbg3LAod9l6HiQEFM2GgaDQax?usp=sharing
56	Cholesky method: Problems	Problems on Gauss Elimination Method	Mathematical Induction		https://drive.google.com/drive/folders/1ywK3lWZ-9prW-cKLF4-L5hWkB3y2fZEj?usp=sharing
57	Basics of counting: Permutations				https://drive.google.com/drive/folders/1t9SwysgRXIRwSu_kAVWT-EQLdq0d2eZ-?usp=sharing

58	Combinations			https://drive.google.com/drive/folders/1mDJmhR_8u5v1oZ4r0wFcUDpUrUgug52N?usp=sharing
59	Gauss Siedal Iterative Method	problems continued	Binomial Coefficients	https://drive.google.com/drive/folders/12vSG4RZRLd4BnV16u1CLG8jDZ-fSK42n?usp=sharing
60	Problems on Gauss Elimination method continued			https://drive.google.com/drive/folders/1OfXJcC2bVYAiADwkJiDKDtiJF2G9_DuG?usp=sharing
61	Problems on Gauss Siedal Iterative Method	LU Decomposition method	Recurrence Relations	https://drive.google.com/drive/folders/1MC5AV2ZAAyeDiNoMa8Mli9h3CKNJ9kjb?usp=sharing
62	LU Decomposition method: Problems	Problems continued		https://drive.google.com/drive/folders/1XixvmTH_OmWITPp3Z_qAescyhZ2JixXb?usp=sharing
63	Gauss Jacobi Iterative Method: Problems	Problems continued	Representing relations	https://drive.google.com/drive/folders/1wndz8_ctwqoyGDQdmMPCHVMH44kkEa6t?usp=sharing
64	Problems on Crout's method continued	Power Method: Problems	partial ordering set: Hasse Diagram	https://drive.google.com/drive/folders/1TYoUVKnOL3nTuZyxiG77V2fn_zU2DXvZ?usp=sharing
65	Smallest eigen values and corresponding eigen vectors	Doolittle's method		https://drive.google.com/drive/folders/1_CZt3r-fUDfmsCSg0BzRbZmHynRBMyiJ?usp=sharing
66	Problems on Doolittle's method continued	Geometric distribution	Taylor's Series method	https://drive.google.com/drive/folders/1h3b-SS5PeneLCv4SwGMhKIEoHgwq3iaB?usp=sharing
67	Problems on Taylor's Series	Cholesky method	Normal distribution	https://drive.google.com/drive/folders/1stOqGI_EX7VUERFzXxJoDOIgguwMqO4f?usp=sharing

	method				
68	Cholesky method: Problems	Exponential Distribution	Picard's Method		https://drive.google.com/drive/folders/1RZTWOgE1Fd5EggBsfMNyIIXb2tyn2d5E?usp=sharing
69	Runge - Kutta Method				https://drive.google.com/drive/folders/1zUFaA15LO2OV73E6if2quedEZukbEbTp?usp=sharing
70	Gauss Siedal Iterative method	Problems on Runge - Kutta Method			https://drive.google.com/drive/folders/1HRetxx5e_42Q-IeyaYtKMh2qiHu4Xrec?usp=sharing
71	Statistics and Probability: Basics	Problems on Gauss Siedal Iterative method	Arithmetic mean: problems	Graph Theory: Definitions	https://drive.google.com/drive/folders/1Og826zqrA2XPX_Oan66C2RGMtAGn5bu1?usp=sharing
72	Problems on Gauss Siedal Iterative method continued	Representing Graphs			https://drive.google.com/drive/folders/1ohl3mV56mhvdK0b0gHkx4ReLHAcMknji?usp=sharing
73	Geometric mean	Problems on Gauss Siedal Iterative method continued	Graph Isomorphism		https://drive.google.com/drive/folders/14iTh0h4zgABL6482Vr1BVIBRJE3BselN?usp=sharing