Demo topics for Guest Lecturer DBRAIT 2020-21

	סבו או ואובוא ו
1. Language Translator Source program Analysis: Compliers- Analysis of the Source program-Phases of a Complier-Cousins of Compiler-Grouping of phases-Complier construction tools. Lexical Analysis: Role of lexical analyzer-input buffering-specification of tokens-recognition of tokens-A language for specifying Lexical Analyzer. Parsing: role of Parser- Context free Grammars -Writing a grammar – predictive parser -LR parser.	CEGNEE
Data Management system: Queries involving Union, Intersection, Difference, Cartesian product, Divide operations- sub Queries-Join Queries-Nested Queries- correlated Queries- Recursive Queries.	Practical(Degree)
Software testing Acceptance testing, alpha testing, beta testing, regression testing, white box testing, black box testing.	DIPLOMA
Open source operating system & scripting language: Basic shell script programs	Practical(diploma)
programming: Function, Printer structure, file handling 2. Data structure and Algorithms: Sorting, searching, linked list, procedure. 3. Web technology: Java script, server side programming using JSP and PHP, console & windows forms suing C#.Net 4. Hardware and networking: Assembling of a personal computer, circuit tracing, troubleshootin	PTI

sing C Applied Pration, Multimedia technology:	perating Data Structure using C: Implementation of various sorting and searching operation in C.	
Data Structure using C Stack and its operation, Application of Stack.	Open source operating system & scripting language IP address configuration, process concept, process state, context switch, data structure of process.	
Computer programming Structures, pointers, file handling	Data structure Singly linked list, doubly linked list, circular linked list, tree traversals, graph traversals.	
Network Layers Protocols: SIP, IPv6, ICMP, ICMPv6, Mobile IP, OSPF, RIP,	2. Database Management System Database Design and the ER Model: overview of the design process-the Entity- Relationship model- constraints-Removing Redundant attributes-Entity- Relationship Diagrams- reduction to relational schemas. Relational Database Design: Features of good relational designs-Atomic Domains and first normal form- Decomposition using functional dependencies- functional-Dependency theory-Algorithms for decomposition using multivalued Dependencies-	

		6. Cauchy's integral	
		cosine transforms.	
		Fourier's sine and	
		theorem.	
		 Gauss divergence 	
		of higher order.	
		differential equation	
		3. Euler's linear	
		Multiple integral	
		Implicit function	
		Differentiation fo	Mathematics
		application)	
		working and	
		and LDR(Principle,	
	resonance column.	6. Photoelectric cell	
Ping	Velocity of sound using	various methods.	
		testing and tis	
)'S	determine the young's	5. Nondestructive	
100	Use searle's method to	reactors.	
vire.	resistance of given wire	reaction for fusion	
fic	Determine the specific	 Nuclear fusion 	
	Air Wedge Method.	its types	
life-	Diameter of A thin wire-	Laser-principles and	
	2. Determination of	grating	
DD).		Dispersive power of	
RT	circular coil(STEWART	and their remedies	
fA	field along the axis of A	acoustics of building	
	 To study of magnetic 	Factor affecting	Physics
		TOROGO.	7
of the given theme		protocols	7.5
posters, banners		Multicasting protocol-bolvin,	1
wallbapers.		Authoration protocol BOMD	

HM		Chemistry
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	rule. Hardness of water- determination and desalination process. Alloys- ferrous and nonferrous alloys. Factors influencing corrosion and its corrective measures.	application. Classification if stochastic process. Types of Polymerization reaction. Conduction polymers- classification and application and derivation of phase
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	permanent hardness of water sample by EDTA method. Determination of carbonates and bicarbonates in water. Estimation of available chlorine in bleaching powder.	Determination the pH value of given solution using pH meter and universal indicator. Determine thinner content in oil paint. Determine total hardness, temporary hardness, and
1. PROTEIN- CLASSIFICATIO N SOURCES 2. CARBOHYDRAT ES- CLASSIFICATIO N, SOURCES 3. FAT-		
service 2. Methods of cooking 3. Hotels and its types 4. reservations		

Electrical	
	A. VITAMINS- CLASSIFICATIO N, SOURCES.
Electrical machine lab 1 perform an experiment on a given DC shunt motor and plot the graph between armature current and speed at different loads. 2. perform an experiment and calculate the slip of given 3 pH induction motor. Electrical measurement lab 1. Perform an experiment to measure the power in a three phase circuit by two wattmeter method. Electrical workshop 1. Fabricate a circuit on wiring. 2 Fabricate a circuit on wiring.	

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Çī	4.	microcontroller and display a	display with 8051	0	circuit. 3. Interface a	clamper	clipper &	Design a	pass & Band	1. Design a Band	wiring practice board for stair case wiring.