



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus

S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR).

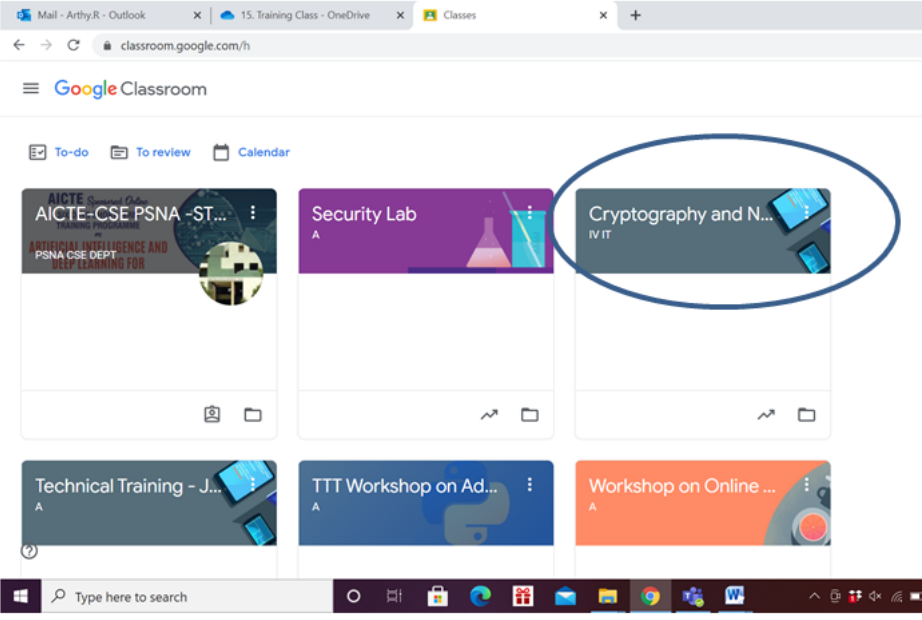
DEPARTMENT OF INFORMATION TECHNOLOGY

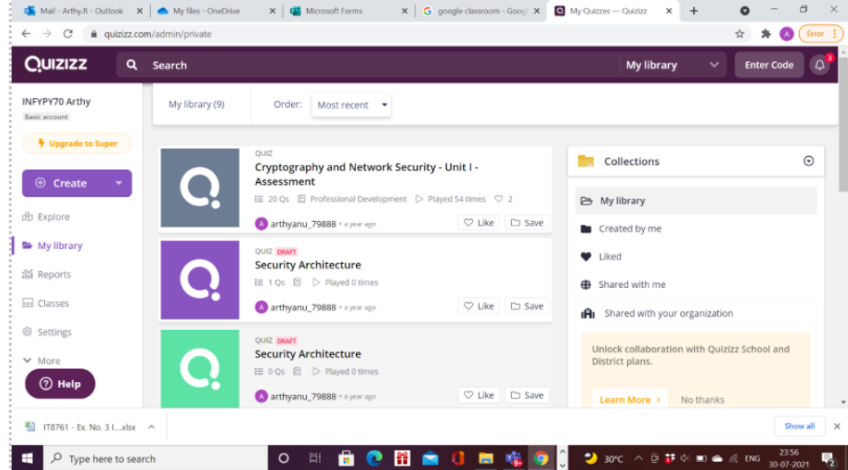
Active Learning Methods and Tools used in Teaching:

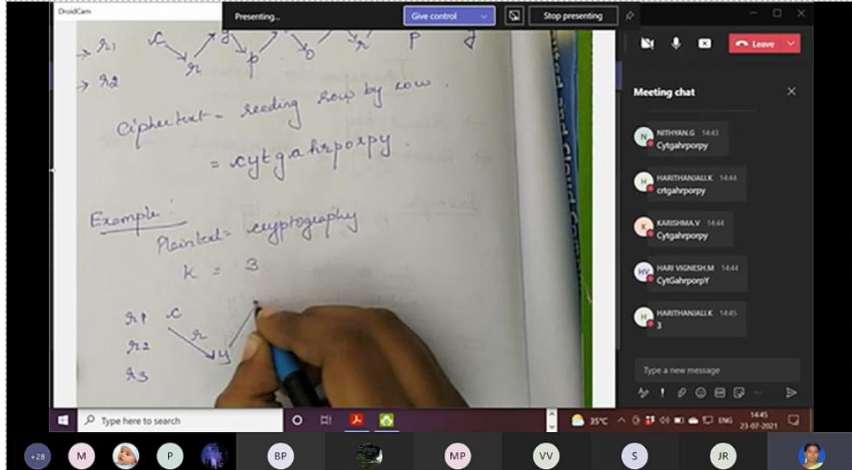
Note: Since 2020 – 2021 Academic year was through online platform,

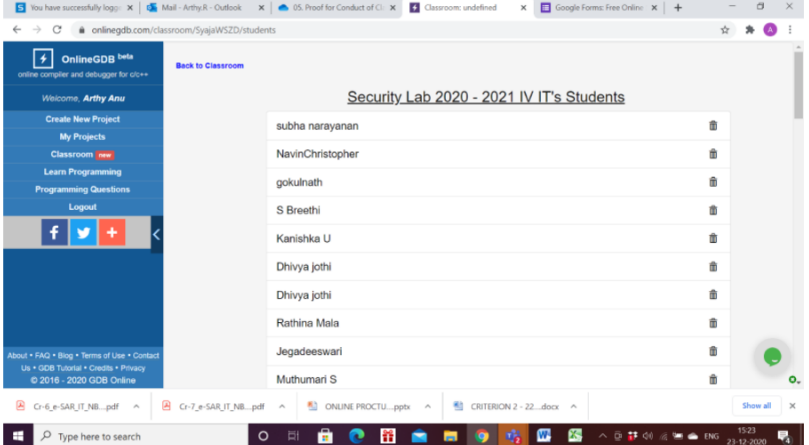
- **MS Team was commonly used by all the subject in-charges to handle the classes**
- **MS Form was commonly used by all the subject in – charges to conduct assessments**

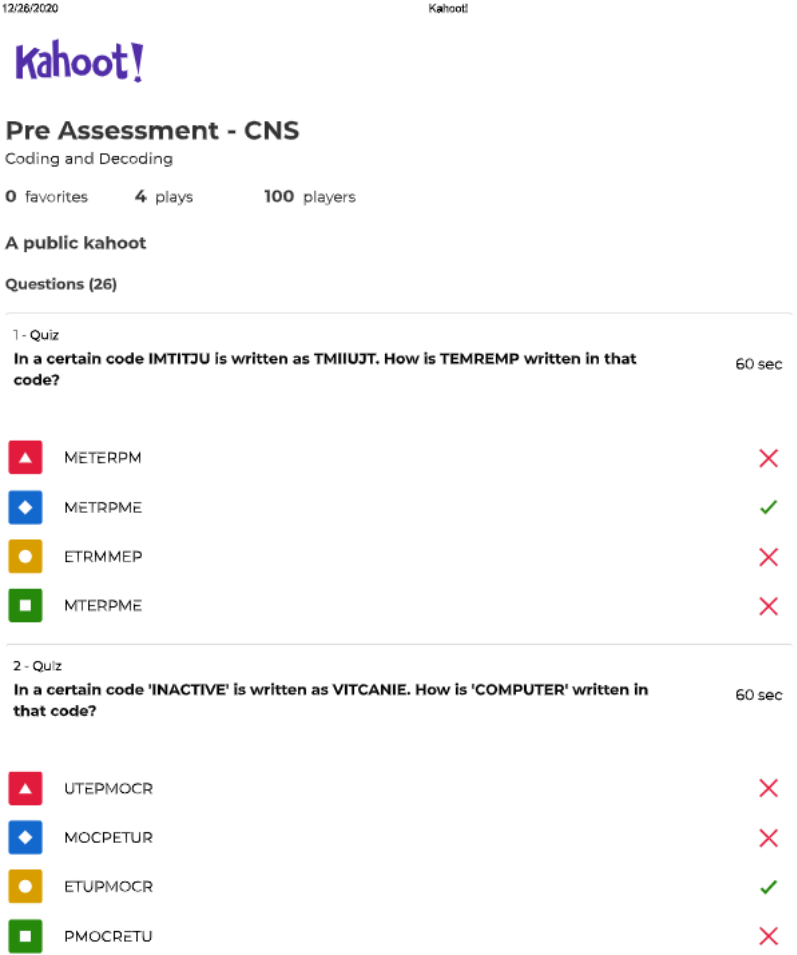








Academic Year: 2020 – 2021 ODD

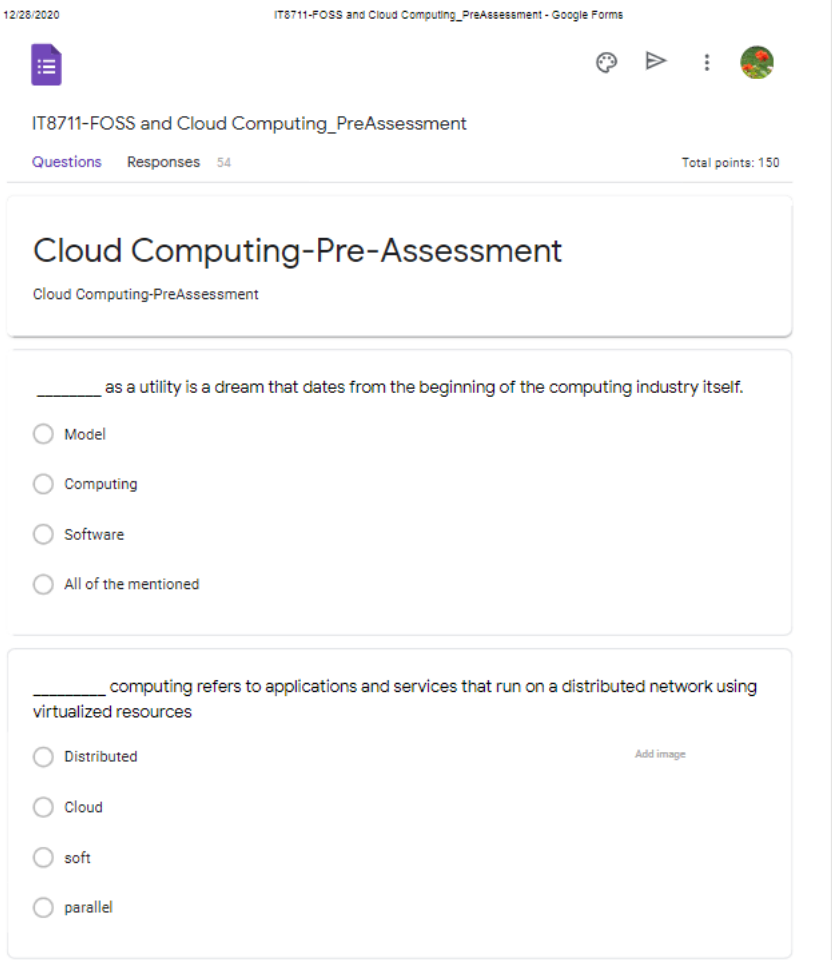
S. No.	Name of the faculty	Subject name with code	Pedagogical tool used (ICT tool / Other pedagogical tools like Jigsaw, Think-Pair-Share etc.)	Number of Participants	Purpose of the tool used	Proofs
1.	Dr. R. Arthy	CS8792 – Cryptography and Network Security	Google Classroom	52	Conduct assessment and post materials	 <p>The screenshot shows a Google Classroom dashboard with several course cards. The card for 'Cryptography and Network Security' is highlighted with a blue circle. Other visible cards include 'Security Lab', 'Technical Training - J...', 'TTT Workshop on Ad...', and 'Workshop on Online ...'. The browser address bar shows 'classroom.google.com/h'.</p>

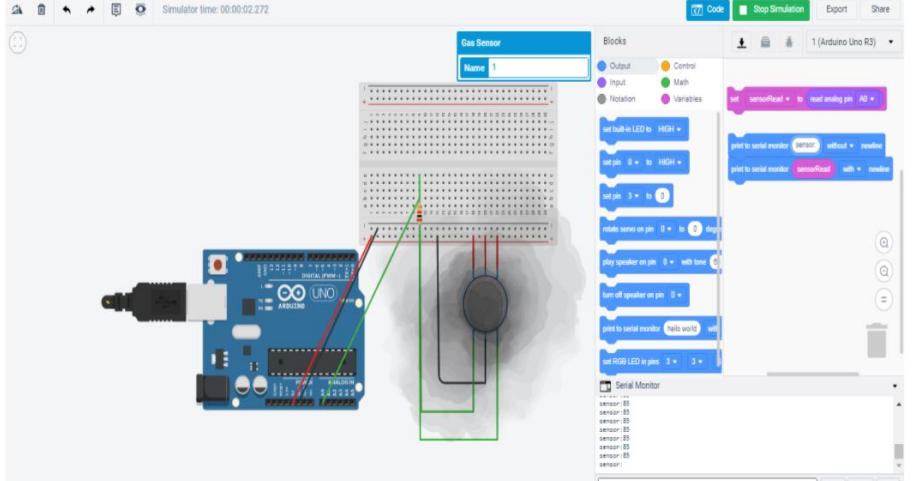
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2.	Dr. R. Arthy	CS8792 – Cryptography and Network Security	Quizzes	52	Conducting Quiz	 <p>The screenshot shows the Quizizz admin dashboard for user 'INFYPY70 Arthy'. The 'My library' section displays three quizzes: 'Cryptography and Network Security - Unit 1 - Assessment' (20 questions, played 54 times), 'Security Architecture' (1 question, played 0 times), and another 'Security Architecture' quiz (0 questions, played 0 times). The interface includes navigation options like 'Create', 'Explore', 'My library', 'Reports', 'Classes', 'Settings', and 'Help'. A sidebar on the right shows 'Collections' and 'My library' filters. The bottom of the image shows a Windows taskbar with the date 30/01/2021 and time 23:56.</p>

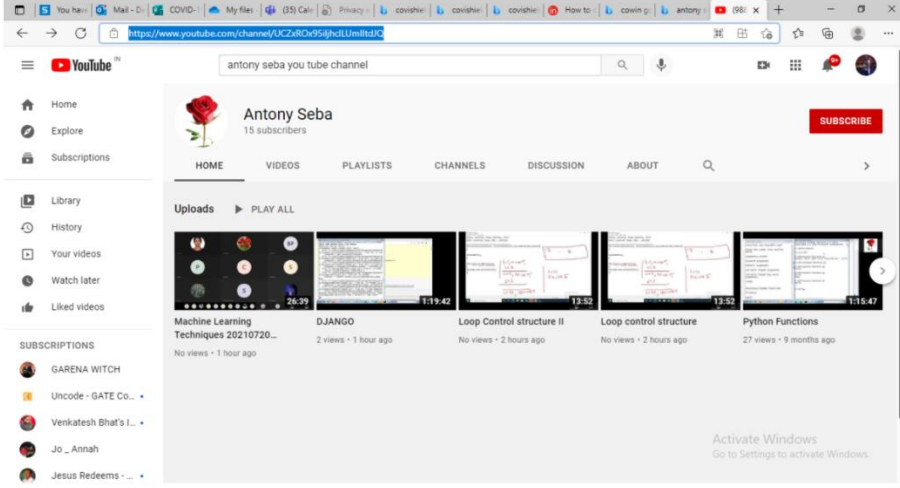
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3.	Dr. R. Arthy	CS8792 – Cryptography and Network Security	DriodCam		Projecting the live whiteboard teaching	

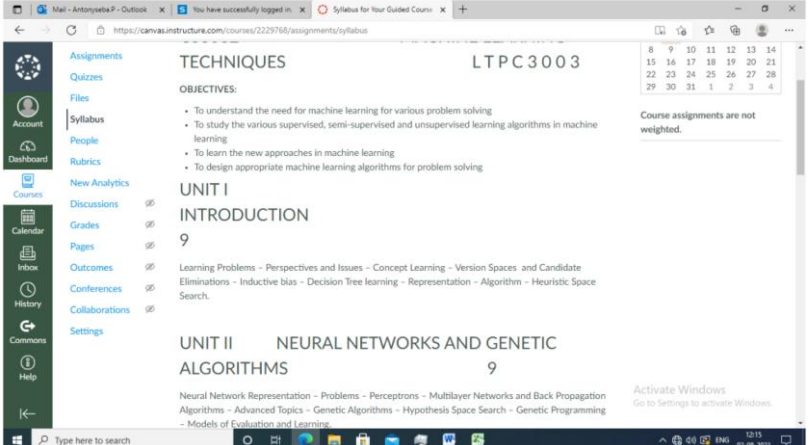
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4.	Dr. R. Arthy	IT8761 – Security Lab	OnlineGDB	52	Conduct of Lab – Evaluating the students’ performance through test cases.	

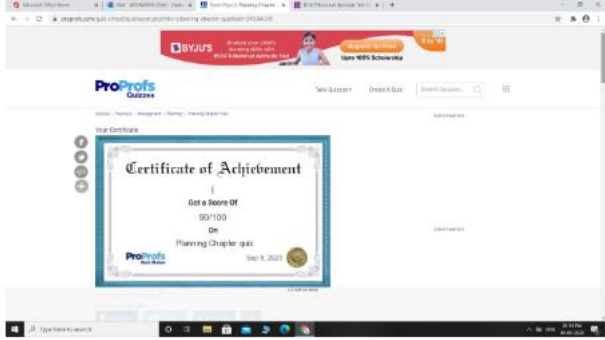
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5.	Dr. R. Arthy	CS8792 – Cryptography and Network Security	Kahoot	52	Conducting Assessment	 <p>12/26/2020 Kahoot!</p> <p>Kahoot!</p> <p>Pre Assessment - CNS Coding and Decoding</p> <p>0 favorites 4 plays 100 players</p> <p>A public kahoot</p> <p>Questions (26)</p> <p>1 - Quiz In a certain code IMTITJU is written as TMIUJT. How is TEMREMP written in that code? 60 sec</p> <ul style="list-style-type: none">  METERPM ✗  METRPME ✓  ETRMMEP ✗  MTERPME ✗ <p>2 - Quiz In a certain code 'INACTIVE' is written as VITCANIE. How is 'COMPUTER' written in that code? 60 sec</p> <ul style="list-style-type: none">  UTEPMOCR ✗  MOCPETUR ✗  ETUPMOCR ✓  PMOCRETU ✗

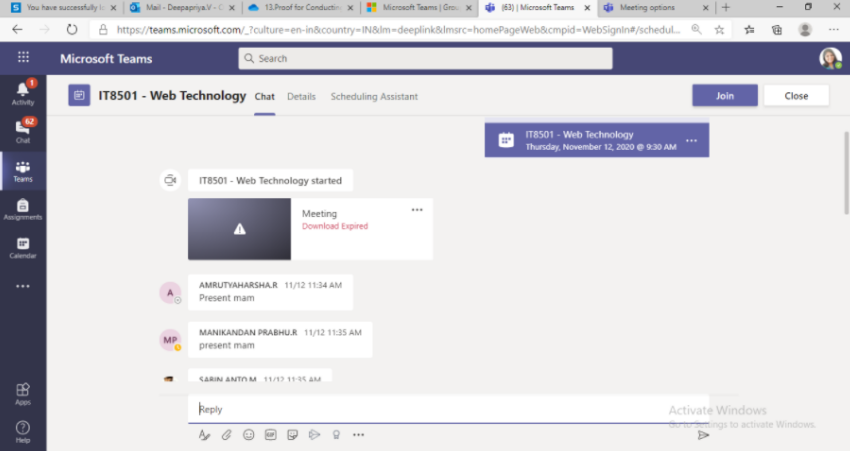
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6.	Dr. M. Chengathir Selvi	IT8711 – FOSS and Cloud Computing Lab	Google Form	52	Conducting Assessment	 <p>The screenshot shows a Google Form titled "IT8711-FOSS and Cloud Computing_PreAssessment" with 54 responses and a total of 150 points. The form contains two multiple-choice questions:</p> <p>Question 1: "_____ as a utility is a dream that dates from the beginning of the computing industry itself." Options: Model, Computing, Software, All of the mentioned.</p> <p>Question 2: "_____ computing refers to applications and services that run on a distributed network using virtualized resources." Options: Distributed, Cloud, soft, parallel.</p>

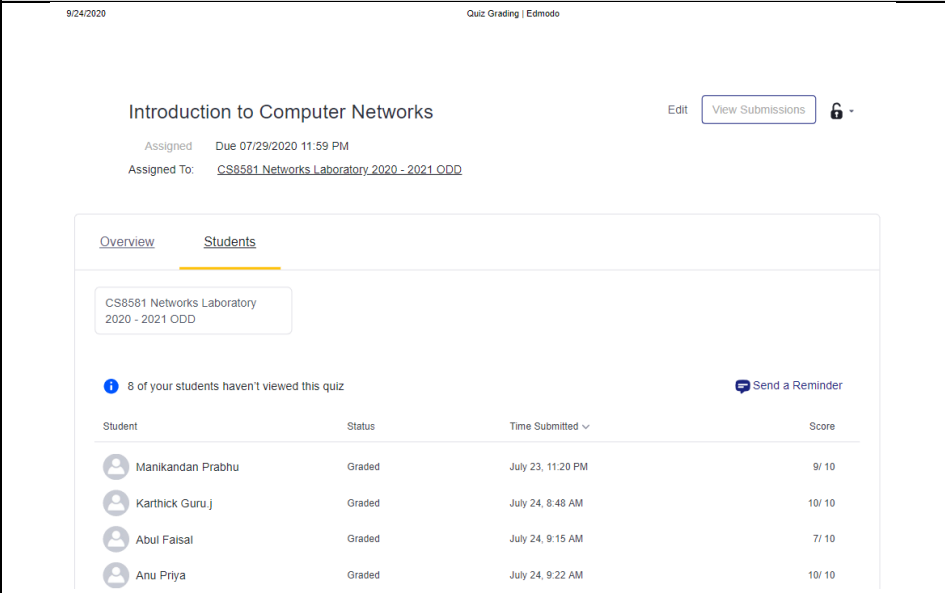
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7.	Mr. D. Vendhan	CS8081 – Internet of Things	TinkerCad	31	Simulation tool	 <p>The screenshot displays the Tinkercad simulation environment. On the left, an Arduino Uno R3 board is connected to a gas sensor module. The sensor's pins are connected to the board's pins. On the right, the code editor shows a sketch with the following logic: when the sensor detects a high value, it turns on an LED and plays a speaker; when it detects a low value, it turns off the LED and stops the speaker. The Serial Monitor at the bottom shows the output of the code, indicating that the sensor is detecting high values.</p>

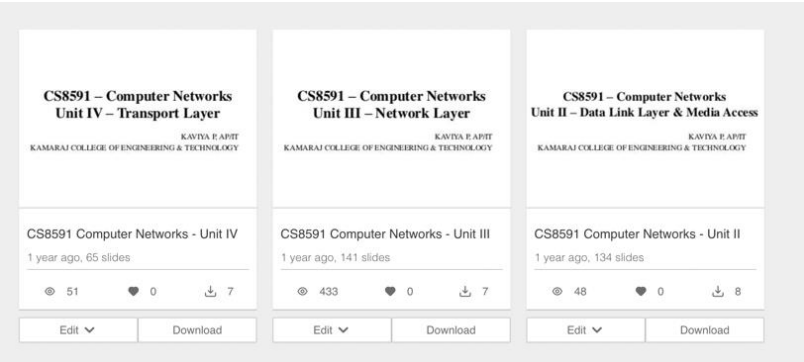
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8.	Ms. P. Antony Seba	CS8082 – Machine Learning Techniques	Youtube	21	Share the video content	 <p>The screenshot shows a web browser window displaying the YouTube channel page for 'Antony Seba'. The channel has 15 subscribers. The 'Uploads' section is visible, showing a row of video thumbnails with titles: 'Machine Learning Techniques 20210720...', 'DJANGO', 'Loop Control structure II', 'Loop control structure', and 'Python Functions'. The video 'Machine Learning Techniques 20210720...' has 'No views - 1 hour ago'. The video 'DJANGO' has '2 views - 1 hour ago'. The video 'Loop Control structure II' has 'No views - 2 hours ago'. The video 'Loop control structure' has 'No views - 2 hours ago'. The video 'Python Functions' has '27 views - 9 months ago'. The browser's address bar shows the URL: 'https://www.youtube.com/channel/UCZr0x95jhdLUmltd4K'.</p>

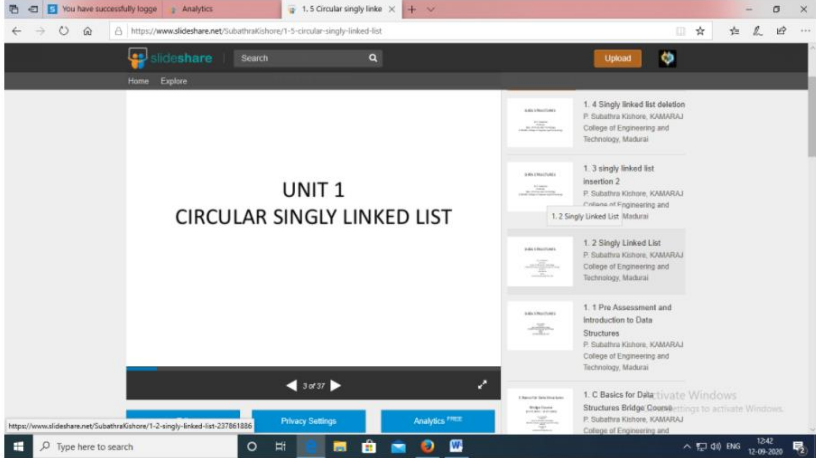
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9.	Ms. P. Antony Seba	CS8082 – Machine Learning Techniques	Canvas	21	Classroom to share content, conduct assessment	

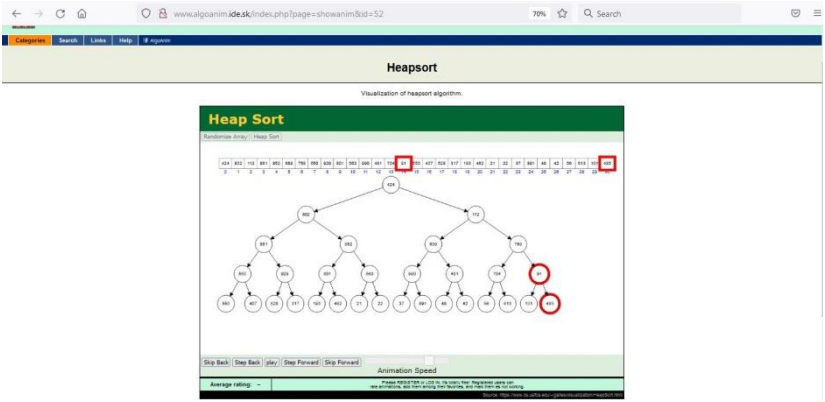
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10	Dr. E. Vakaimalar	MG8591 - :Principles of Managements	ProProfs Quiz Maker	52	Conduct Quiz	

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11	Ms. V. Deepa Priya	IT8501 – Web Technology	MS Teams	48	Conduct of Class, Content Sharing, Conducting Assessment	

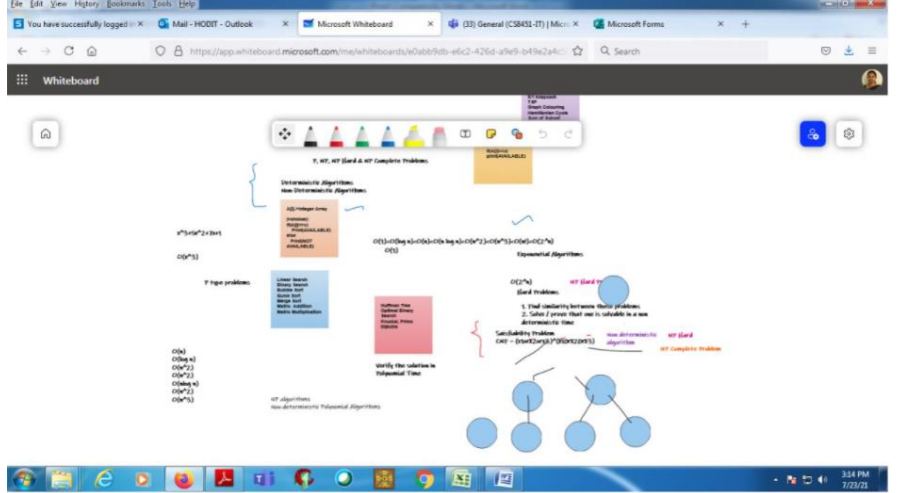
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12	Ms. P. Kaviya	CS8581 – Networks Lab	Edmodo	48	Conducting Quiz	 <p>The screenshot shows a quiz titled "Introduction to Computer Networks" on Edmodo. It is assigned to "CS8581 Networks Laboratory, 2020 - 2021 ODD" and is due on 07/29/2020 at 11:59 PM. The "Students" tab is active, showing a list of students who have completed the quiz. A notification indicates that 8 of the 48 students have not yet viewed the quiz.</p> <table border="1"> <thead> <tr> <th>Student</th> <th>Status</th> <th>Time Submitted</th> <th>Score</th> </tr> </thead> <tbody> <tr> <td>Manikandan Prabhu</td> <td>Graded</td> <td>July 23, 11:20 PM</td> <td>9/10</td> </tr> <tr> <td>Karthick Guru.j</td> <td>Graded</td> <td>July 24, 8:48 AM</td> <td>10/10</td> </tr> <tr> <td>Abul Faisal</td> <td>Graded</td> <td>July 24, 9:15 AM</td> <td>7/10</td> </tr> <tr> <td>Anu Priya</td> <td>Graded</td> <td>July 24, 9:22 AM</td> <td>10/10</td> </tr> </tbody> </table>	Student	Status	Time Submitted	Score	Manikandan Prabhu	Graded	July 23, 11:20 PM	9/10	Karthick Guru.j	Graded	July 24, 8:48 AM	10/10	Abul Faisal	Graded	July 24, 9:15 AM	7/10	Anu Priya	Graded	July 24, 9:22 AM	10/10
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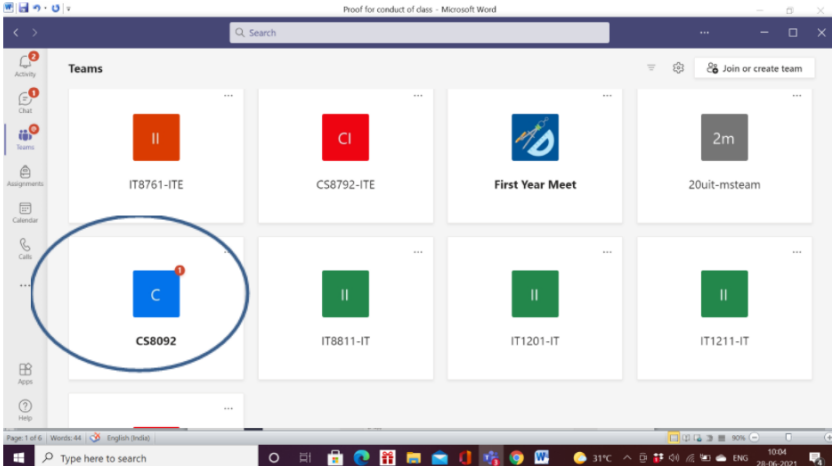
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13	Ms. P. Kaviya	CS8591 – Computer Networks	SlideShare	48	Sharing the Contents	 <p>The screenshot displays three SlideShare presentations. Each presentation is titled 'CS8591 – Computer Networks' and includes the author's name 'KAVIYA P.APIT' and the institution 'KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY'. The first presentation is 'Unit IV – Transport Layer' with 65 slides, 51 views, and 7 downloads. The second is 'Unit III – Network Layer' with 141 slides, 433 views, and 7 downloads. The third is 'Unit II – Data Link Layer & Media Access' with 134 slides, 48 views, and 8 downloads. Each presentation card includes an 'Edit' dropdown menu and a 'Download' button.</p>

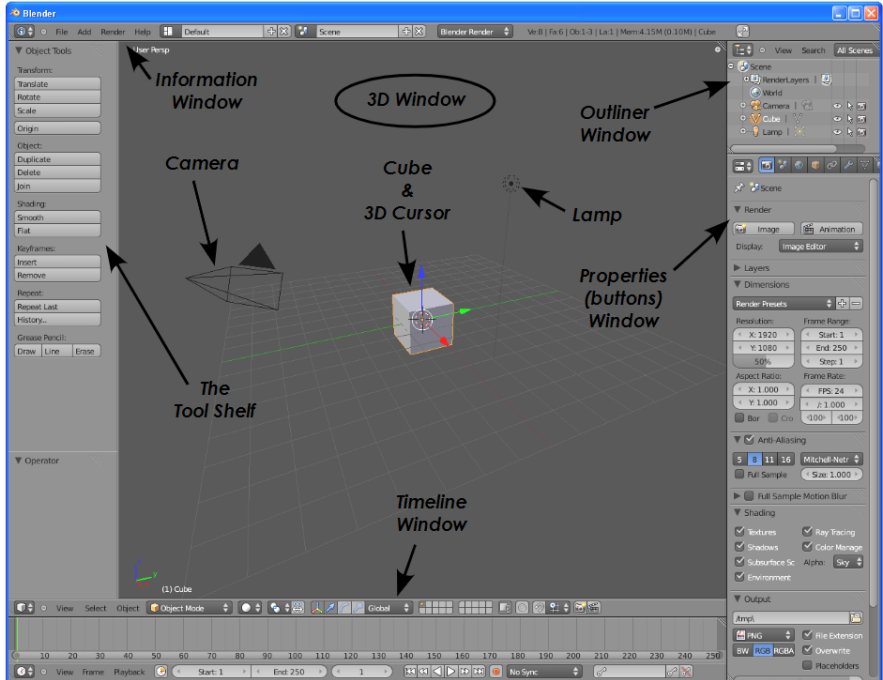
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14	Dr. P. Subathra	CS8391 - Data Structures	Slideshare	46	Sharing of Content	 <p>The screenshot shows a web browser displaying a Slideshare presentation. The main content area features the text "UNIT 1 CIRCULAR SINGLY LINKED LIST". The right sidebar contains a list of related presentations, including "1.4 Singly linked list deletion", "1.3 singly linked list insertion 2", "1.2 Singly Linked List", "1.2 Singly Linked List", "1.1 Pre-Assessment and Introduction to Data Structures", and "1. C Basics for Data Structures Bridge Course". The browser's address bar shows the URL "https://www.slideshare.net/SubathraKishore/1-1-circular-singly-linked-list".</p>

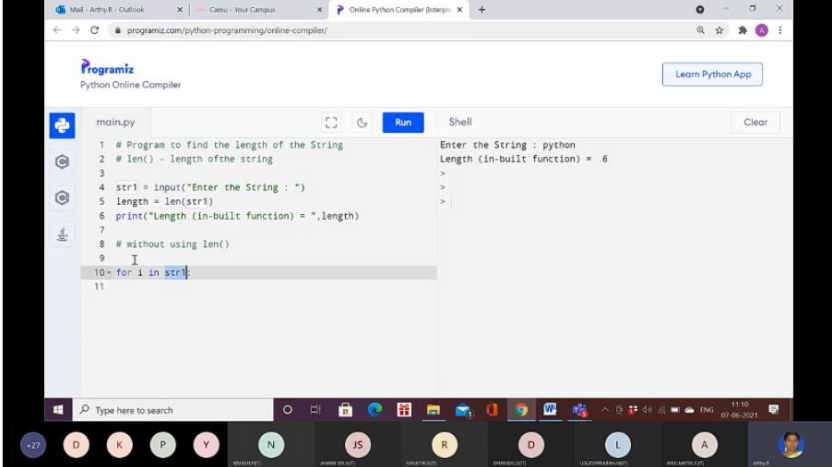
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15	Dr. P. Subathra	CS8391 - Data Structures	Algoanium.ide.sk	46	Online Demo Tool	

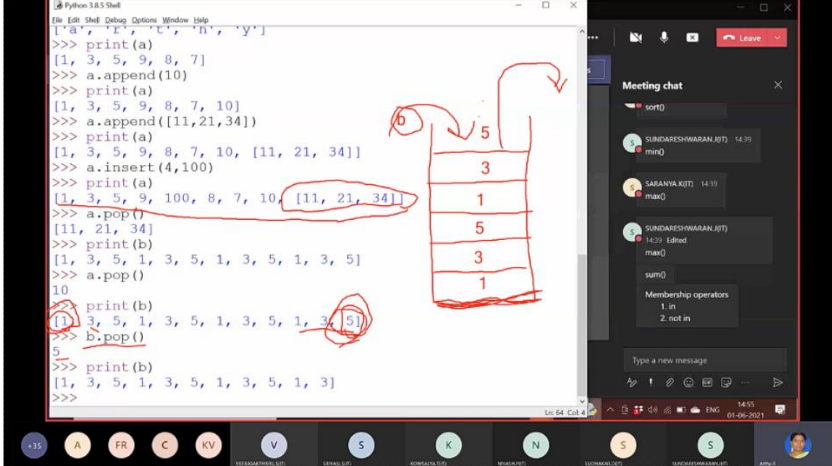
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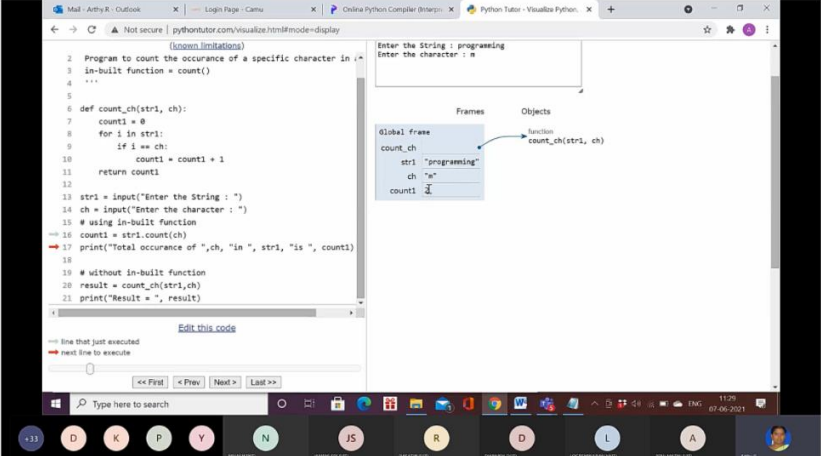
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1.	Dr. P. Subathra	CS8451 – Design and Analysis of Algorithm	Microsoft Whiteboard	46	Dissemination of the Content	 <p>The screenshot shows a Microsoft Whiteboard interface with a toolbar at the top. The main content area contains handwritten notes and diagrams. Key elements include:</p> <ul style="list-style-type: none"> Divide and Conquer: A note stating "Divide and Conquer: Divide the problem into smaller sub-problems, solve them recursively, and combine the solutions." Below this is a tree diagram showing a root node splitting into two child nodes, which further split into four leaf nodes. Recursion: A note defining recursion as "A function that calls itself." It includes a list of "Types of recursion": Direct, Indirect, Tail, and Non-tail. Dynamic Programming: A note stating "Dynamic Programming: A technique for solving a class of problems that can be broken down into simpler sub-problems in which the sub-problems are solved once and their solutions are stored in a table." It lists "Types of DP": Memoization and Tabulation. Graphs: A note defining a graph as "A collection of nodes and edges." It lists "Types of graphs": Undirected, Directed, Weighted, and Unweighted. Mathematical Formulas: Several recurrence relations are written, such as $T(n) = 2T(n/2) + O(n)$, $T(n) = T(n-1) + O(1)$, and $T(n) = T(n-1) + O(n)$.

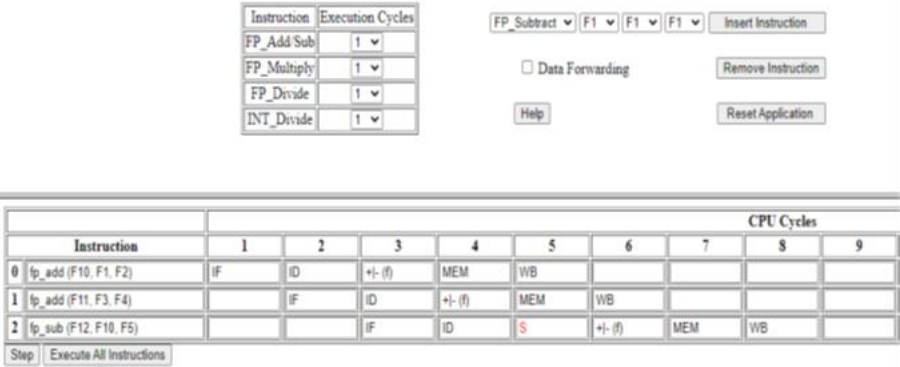
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3.	Dr. R. Arthy	CS8092 – Computer Graphics and Multimedia	Google Classroom	48	Content Sharing and Conducting Assessments	 <p>The screenshot shows the Microsoft Teams interface. A grid of team tiles is displayed. The tile for 'CS8092' (blue square with a white 'C') is circled in blue. Other visible tiles include 'IT8761-ITE', 'CS8792-ITE', 'First Year Meet', '20uit-msteam', 'IT8811-IT', 'IT1201-IT', and 'IT1211-IT'. The interface includes a search bar at the top, a navigation pane on the left, and a taskbar at the bottom.</p>

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4.	Dr. R. Arthy	CS8092 – Computer Graphics and Multimedia	Blender Software	48	Tool for creating 2D and 3D objects, animation, video, etc.	 <p>The screenshot shows the Blender 2.80 interface. The central 3D Viewport displays a scene with a cube, a camera, and a lamp. The interface is divided into several panels: the left side has the 'Tool Shelf' with various object manipulation tools; the top-left shows the 'Information Window' for the selected object; the top-right is the 'Outliner Window' showing the scene's hierarchy; the right side is the 'Properties Window' for the selected object; and the bottom is the 'Timeline Window' for animation. The 3D Viewport itself is labeled as the '3D Window'.</p>

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5.	Dr. R. Arthy	IT1201 – Problem Solving using Python Programming	Programiz	47	Online editor to demonstrate the coding	

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6.	Dr. R. Arthy	IT1201 – Problem Solving using Python Programming	Zoomit	47	Screen Controller and Writer	

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7.	Dr. R. Arthy	IT1211 – Problem Solving using Python Programming Lab	Python Visualizer	47	Trace the code line by line	 <p>The screenshot shows the Python Visualizer interface. On the left, there is a code editor with the following Python code:</p> <pre> 1 Program to count the occurrence of a specific character in a string 2 in-built function = count() 3 4 5 6 def count_ch(str1, ch): 7 count1 = 0 8 for i in str1: 9 if i == ch: 10 count1 = count1 + 1 11 return count1 12 13 str1 = input("Enter the String : ") 14 ch = input("Enter the character : ") 15 # using in-built function 16 count1 = str1.count(ch) 17 print("Total occurrence of ",ch, "in ", str1, "is ", count1) 18 19 # without in-built function 20 result = count_ch(str1,ch) 21 print("Result = ", result) </pre> <p>On the right, there is a console window showing the input and output:</p> <pre> Enter the String : programming Enter the character : n Total occurrence of 'n' in 'programming' is 1 Result = 1 </pre> <p>Below the code editor, there is a 'Frames' and 'Objects' pane. The 'Objects' pane shows the following variables:</p> <pre> Global frame count_ch str1 "programming" ch "n" count1 1 </pre> <p>The 'Frames' pane shows the function frame for <code>count_ch(str1, ch)</code>.</p>

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8.	Ms. P. Kaviya	CS8491 – Computer Architecture	Demo Activity on Pipelining, Hazards and Cache Memory	46	Conducted Class & Solved Assignments	 <p>The screenshot shows a simulation interface for a pipeline. At the top, there is a table for 'Instruction' and 'Execution Cycles' with rows for FP_Add Sub, FP_Multiply, FP_Divide, and INT_Divide, each with a dropdown menu set to '1'. To the right are control buttons: 'FP Subtract', 'F1', 'F1', 'F1', 'Insert Instruction', 'Data Forwarding' (checkbox), 'Remove Instruction', 'Help', and 'Reset Application'. Below this is a pipeline table with columns for 'Instruction' and 'CPU Cycles' (1-9). The table shows the progress of three instructions: fp_add (F10, F1, F2), fp_add (F11, F3, F4), and fp_sub (F12, F10, F5). The fp_sub instruction is currently in the MEM stage at cycle 5, with a red 'S' indicating a hazard. A 'Step' button and 'Execute All Instructions' button are at the bottom left.</p> <table border="1" data-bbox="1265 774 2161 917"> <thead> <tr> <th></th> <th colspan="9">CPU Cycles</th> </tr> <tr> <th>Instruction</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> <th>7</th> <th>8</th> <th>9</th> </tr> </thead> <tbody> <tr> <td>0 fp_add (F10, F1, F2)</td> <td>IF</td> <td>ID</td> <td>+- (f)</td> <td>MEM</td> <td>WB</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 fp_add (F11, F3, F4)</td> <td></td> <td>IF</td> <td>ID</td> <td>+- (f)</td> <td>MEM</td> <td>WB</td> <td></td> <td></td> <td></td> </tr> <tr> <td>2 fp_sub (F12, F10, F5)</td> <td></td> <td></td> <td>IF</td> <td>ID</td> <td>S</td> <td>+- (f)</td> <td>MEM</td> <td>WB</td> <td></td> </tr> </tbody> </table>		CPU Cycles									Instruction	1	2	3	4	5	6	7	8	9	0 fp_add (F10, F1, F2)	IF	ID	+- (f)	MEM	WB					1 fp_add (F11, F3, F4)		IF	ID	+- (f)	MEM	WB				2 fp_sub (F12, F10, F5)			IF	ID	S	+- (f)	MEM	WB	
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