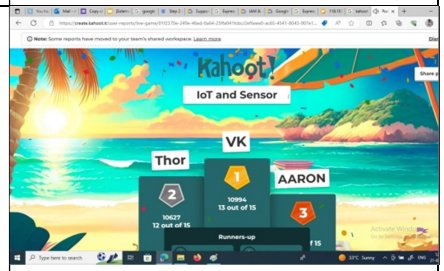
KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY

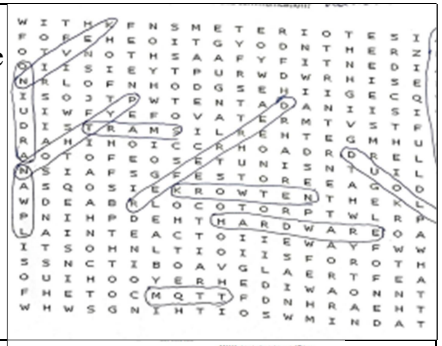
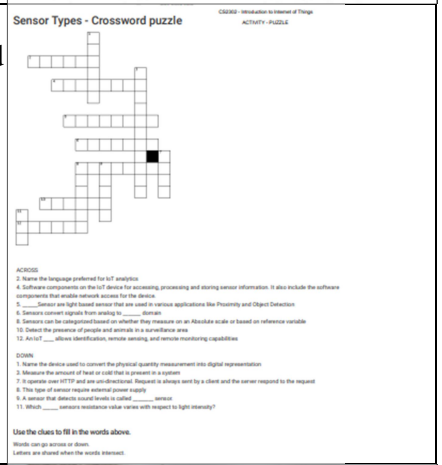
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)
(Approved by AICTE,New Delhi)

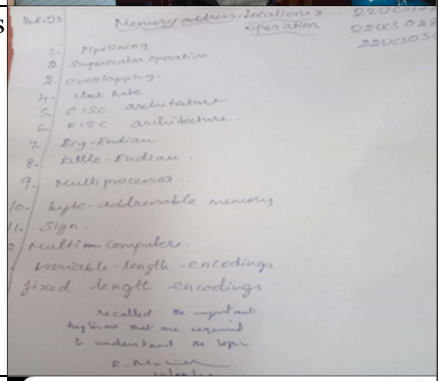
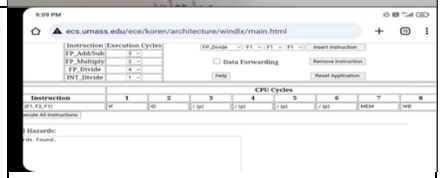
Department of Computer Science and Engineering

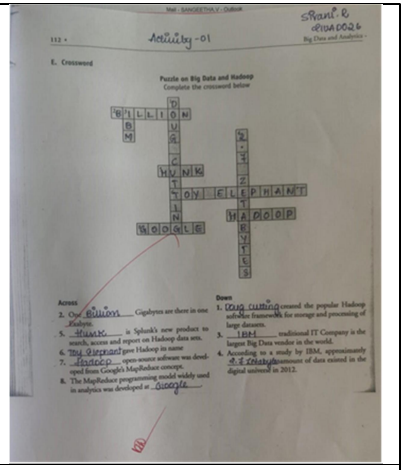
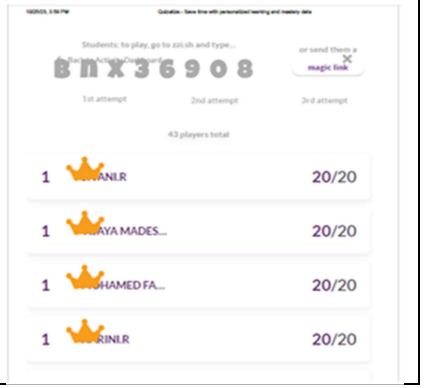
Active Learning Methods Followed in Class Room Teaching

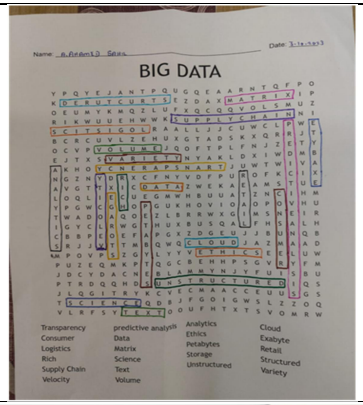
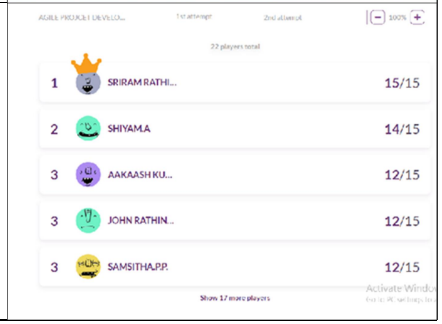
2023 – 2024 [ODD]

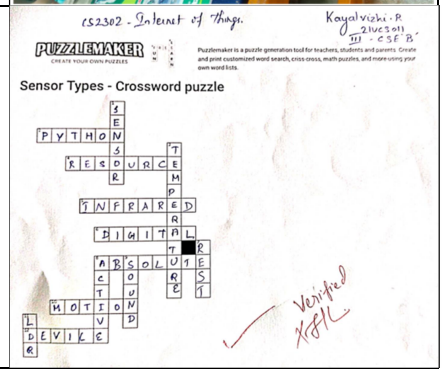
S. No.	Name of the faculty	Subject name with code	Pedagogical tool used (ICT tool / Other pedagogical tools like Jigsaw, Think-Pair-Share etc)	Number of student participants	Purpose of the tool used	Proof(photos)
1.	A.Anandh	CS2302 – Introduction to Internet of Things	Kahoot Quiz	63	It enhances a student's learning. Also, it makes it fun and interactive, keeping participants engaged and motivated.	
2.	A.Anandh	CS2302 – Introduction to Internet of Things	Seminar Presentation	63	To improve the presentation skills of the students and refresh the concepts.	

3.	A.Anandh	CS2302 – Introduction to Internet of Things	Word Search	63	To understand the basic definition of the keywords associated with IoT.	
4.	A.Anandh	CS2302 – Introduction to Internet of Things	Cross Word Puzzle	63	To understand the basic information and key concepts about IoT.	
2.	J.Lavanya	VCS322-Software Testing and Quality Assurance	Seminar	45	To share their views about the different testing tools	

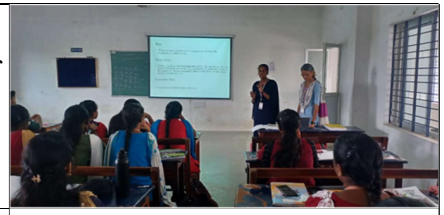
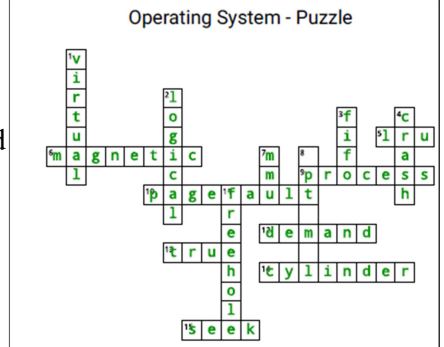
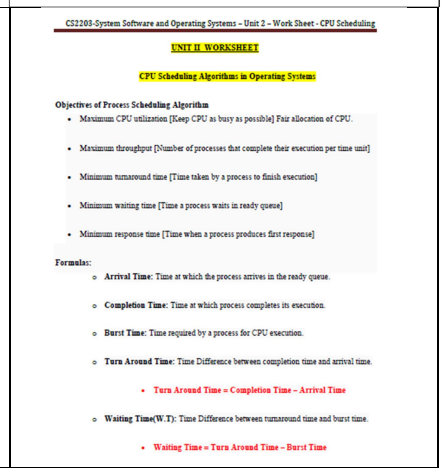
6.	J.Lavanya	CS2201- Data Structures using Python	Think pair share	62	To understand the concepts of Sorting methods	
3.	Dr.R.Muthuselvi	IT2201 – Computer Organization and Architecture	One Minute Paper	62	To assess the students what the most important thing they have learnt in the class	
8	Dr.R.Muthuselvi	IT2201 – Computer Organization and Architecture	Running Simulator	62	To make the students to understand data hazards	

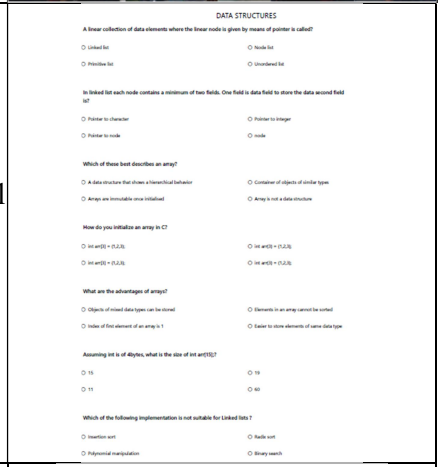
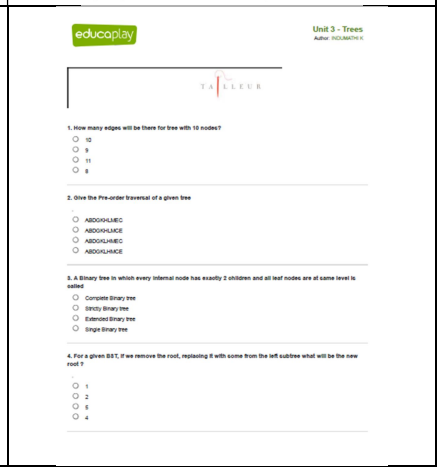
4.	Mrs.V.Sangeetha	AI2301-Big Data Tools and Techniques (III ADS)	Cross Word Puzzle	62	To improve logical thinking of the students	
			Quizalize-Quiz	62	To improve the Memory power of the students	

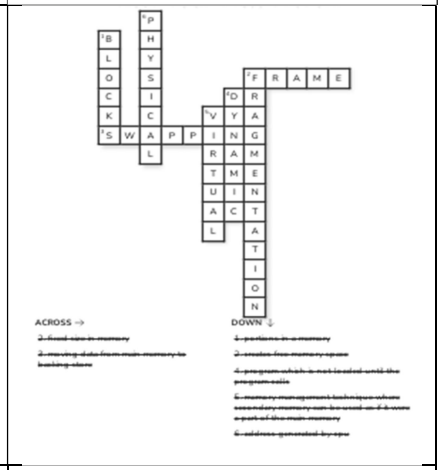
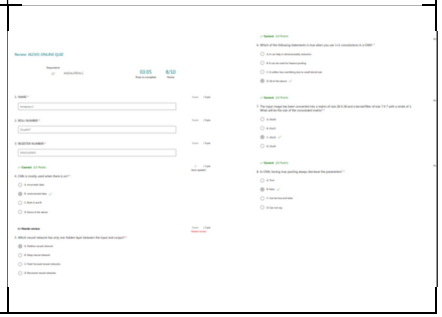
			Word Search	62	To improve the brain activity of the students	
	Mrs.V.Sangeetha	VCS321-Agile Project Development with SCRUM (III CSE A& B)	Think, Pair and Share	19	To improve the content delivery of the students	
			Quiz in Quizalize	22	To improve the Memory of the students	

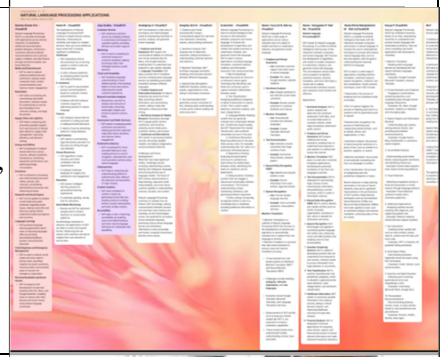
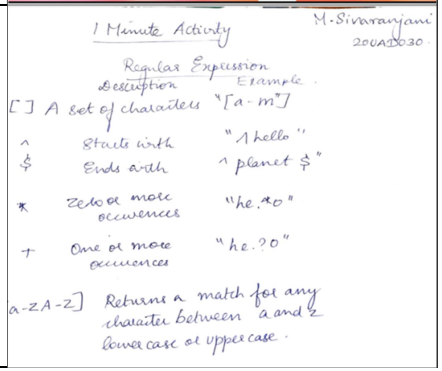
			Certification Course	22	To improve the idea about Agile in detail for the students	
			Listen and Build	22	Ability to perform effectively as a Team	
5.	Mrs.X.Ignatius Selvarani	CS2302 - Introduction to Internet of Things	Crossword Puzzle	62	To recall the Sensor fundamentals and types of sensors in Internet of Things.	

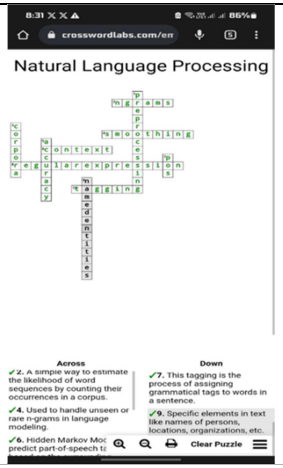
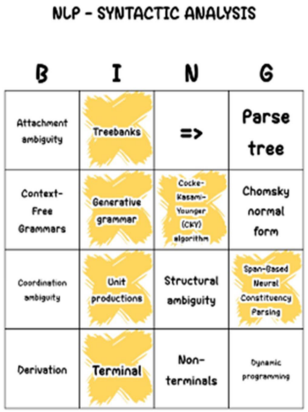
			Simulation of IoT application by Skit	62	To discuss about the designing of applications using IoT components for the given case studies.	
11	Mrs.X.Ignatius Selvarani	CS2203 / System Software and Operating Systems	Online Quiz	62	To recall the System Software fundamentals and basics of Operating Systems.	
			Seminar	62	To help the students to gain information and improve their confidents on the particular topic.	

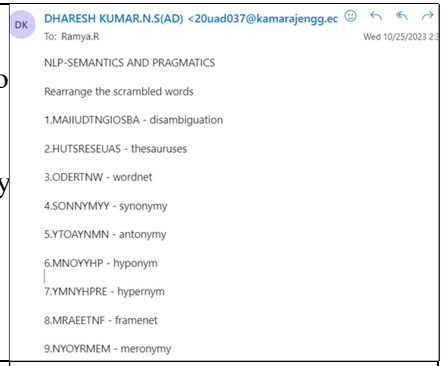
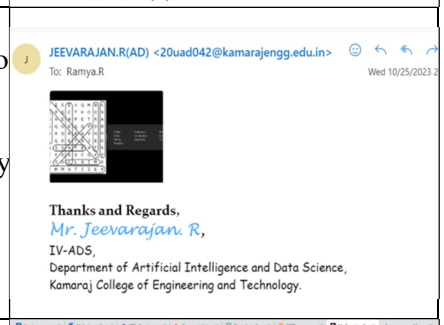
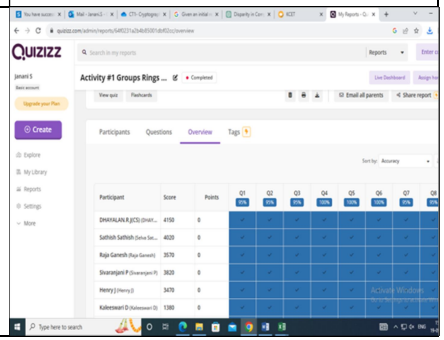
6.	Mrs.K.Indumathi	CS2203 / System Software and Operating Systems	Seminar	59	To improve the presentation skills of the students and refresh the concepts.	
			Crossword Puzzle	59	To understand the basic information and key concepts in operating system	
			Worksheet	59	To make and access the students to understand CPU Scheduling	

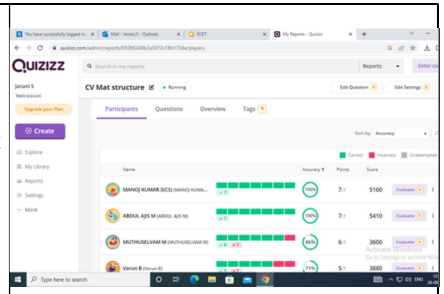
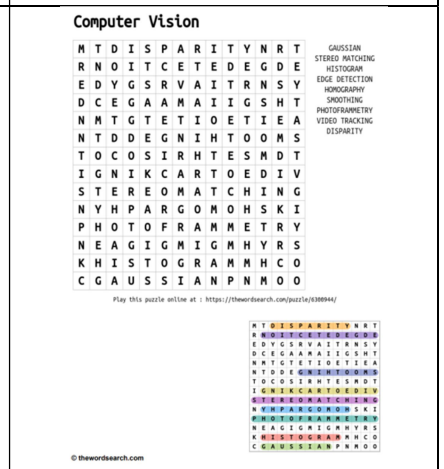
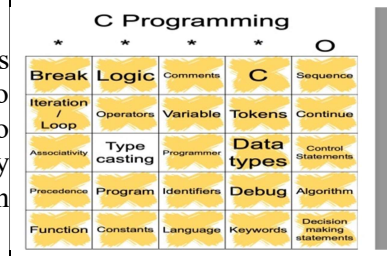
	K.Indumathi	CS2201-Data Structures using Python	Seminar	62		
			Online Quiz	62	To recall fundamental concepts in Data Structures	 DATA STRUCTURES A linear collection of data elements where the linear node is given by means of pointer is called? ○ Linked list ○ Node list ○ Primitive list ○ Unordered list In linked list each node contains a minimum of two fields. One field is data field to store the data second field is? ○ Pointer to character ○ Pointer to integer ○ Pointer to node ○ node Which of these best describes an array? ○ A data structure that shows a hierarchical behavior ○ Container of objects of similar types ○ Arrays are immutable once initialised ○ Array is not a data structure How do you initialize an array in C? ○ int arr[3] = {1,2,3}; ○ int arr[3] = {1,2,3}; ○ int arr[3] = {1,2,3}; ○ int arr[3] = {1,2,3}; What are the advantages of arrays? ○ Objects of mixed data types can be stored ○ Elements in an array cannot be sorted ○ Index of first element of an array is 1 ○ Easier to store elements of same data type Assuming int is of 4bytes, what is the size of int arr[10]? ○ 15 ○ 19 ○ 11 ○ 40 Which of the following implementation is not suitable for Linked lists ? ○ Insertion sort ○ Radix sort ○ Polynomial manipulation ○ Binary search
			Online quiz	62	To recall basic concepts in Trees	 educaplay Unit 3 - Trees Author: INDUMATHI K TALLEUR 1. How many edges will be there for tree with 10 nodes? ○ 10 ○ 9 ○ 11 ○ 8 2. Give the Pre-order traversal of a given tree ○ ABDGIHLMEC ○ ABDGIHLMCE ○ ABDGILHMEC ○ ABDGILHMCE 3. A Binary tree in which every internal node has exactly 2 children and all leaf nodes are at same level is called ○ Complete Binary tree ○ Strictly Binary tree ○ Extended Binary tree ○ Single Binary tree 4. For a given BST, if we remove the root, replacing it with some from the left subtree what will be the new root ? ○ 1 ○ 2 ○ 5 ○ 4

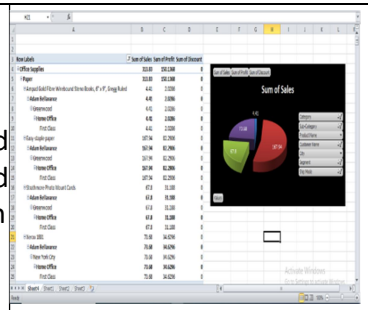
7.	R.Indhuja	CS2203-SYSTEM SOFTWARE AND OPEARTING SYSTEMS	**ONLINE QUIZ**	62	To know what and how much they have understood about a subject	
			CROSS WORD PUZZLE	62	Practicing and improving students' reading skills like scanning, decoding, and improving word recognition.	
	R.INDHUJA	AI2303-FUNDAMENTALS OF DEEP LEARNING	**ONLINE QUIZ**	62	To know what and how much they have understood about a subject	

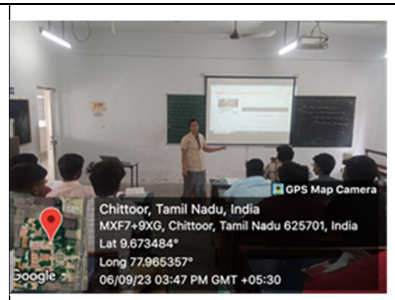
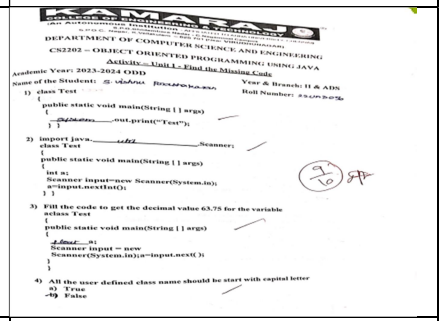
			WORD SEARCH ACTIVITY	62	To reinforce vocabulary students are learning through reading	
			PADLET ACTIVITY	62	It allows individuals (and large/ small groups) to post their comments, questions, and resources in one place that is easily accessible to everyone	
8.	R.Ramya	CS1702 Natural Language Processing	One Minute Paper	20	To understand what was the most important thing, they learnt in class today; and what remains unclear to them	

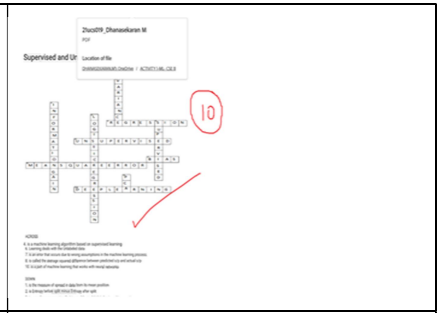
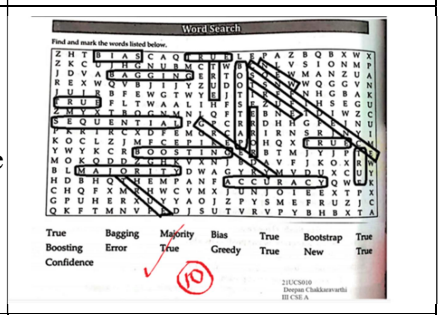
			Crossword Puzzle	45	To provide students with an opportunity to evaluate their knowledge and require students to pay attention to terminology as they need to spell each word correctly.	
			Bingo	23	To provide students with an opportunity to evaluate their knowledge and require students to pay attention to terminology as they need to spell each word correctly.	

			Find the scrambled words	45	To provide students with an opportunity to evaluate their knowledge and require students to pay attention to terminology as they need to spell each word correctly.	
			Word Puzzle	45	To provide students with an opportunity to evaluate their knowledge and require students to pay attention to terminology as they need to spell each word correctly.	
9.	S. Janani	IT1671 – Cryptography and Network Security	Online Quiz on Quizizz platform	43	To understand the basic concepts about algebraic structures- groups, rings and fields.	

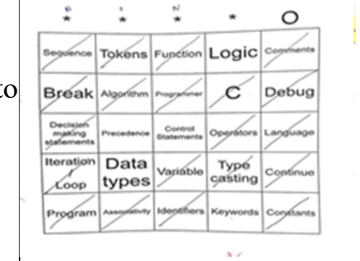
		AD1601 – Computer Vision	Online Quiz on Quizizz platform	23	To understand the basic concepts of Mat structure and its functions.	
		AD1601 – Computer Vision	Word Search	42	To easily hold the keywords in their mind	
10.	R.Hari Priya	EM1251-Coding Techniques-I	Bingo Game	57	To provide students with an opportunity to pay attention to terminology as they need to spell each word correctly.	

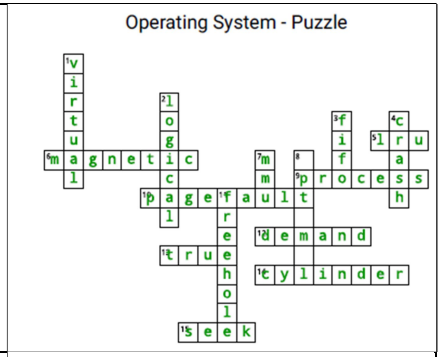
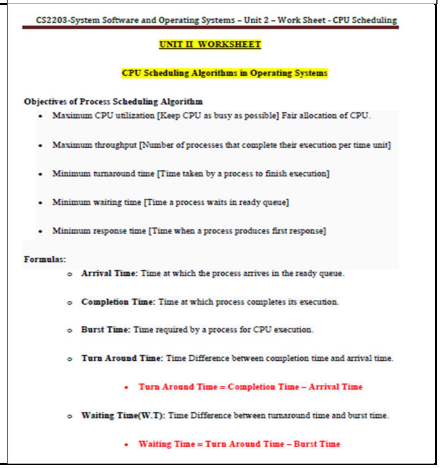
		AD1701- Data Exploration and Visualization	Excel-Ad ins	45	To easily understand the insights and trends in visualization	
11.	Hemaswathi S	AI2202- Data structures and algorithms	Web quest	59	To know the real time applications of Stack and Queue.	
			Role Play	59	To know the real time applications of AVL and B trees	

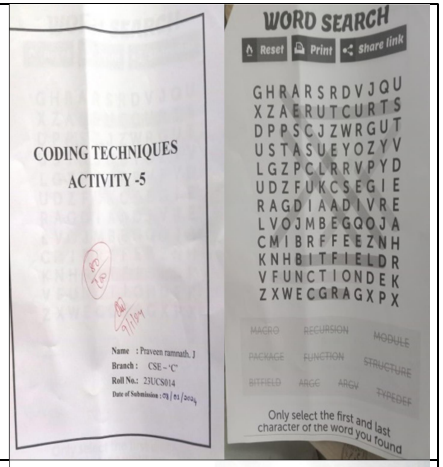
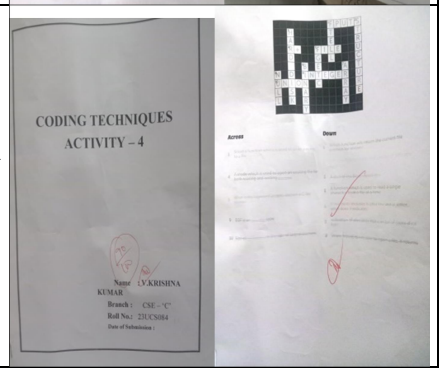
		CS1734 Principles of Cyber Security	Conducted Quiz	15	To know the attacks very well	
12.	Ms.D.Pradhiba	CS2202-Object Oriented Programming using JAVA	Find the Missig Code	59	To know what and how much they have understood about a subject	
			Certification Course	59	To Improve the Logical Thinking of the students	

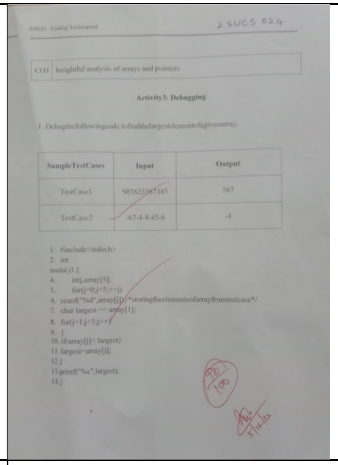
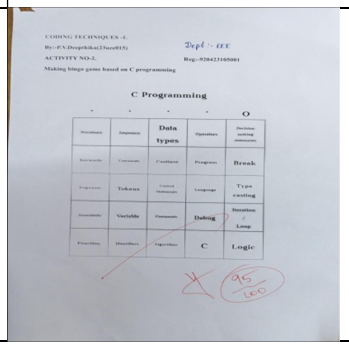
13.	S.Nithya	CS2303 – MACHINE LEARNING TECHNIQUES	Crossword Puzzle	63	To improve the thinking power of the students	
			Word Search	63	To improve the logical thinking of the students	
			Kahoot Quiz	63	To improve the students thinking power	

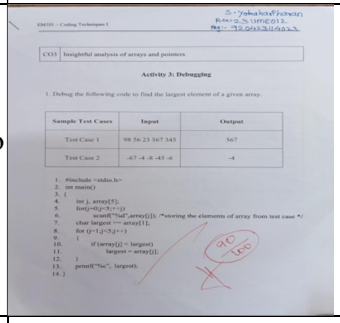
		AD1602 – DEEP LEARNING	Flipped Classroom	35	Demonstrate & listen the experts teaching. It deepen the knowledge in the classroom through collaborative learning.	
14.	Mrs.E.Vijayalakshmi	IT2201-Computer Organization and Architecture	Seminar	60	To improve the presentation skills of the student.	
			One Minute Paper	60	To understand what was the most important thing, they learnt in class today	

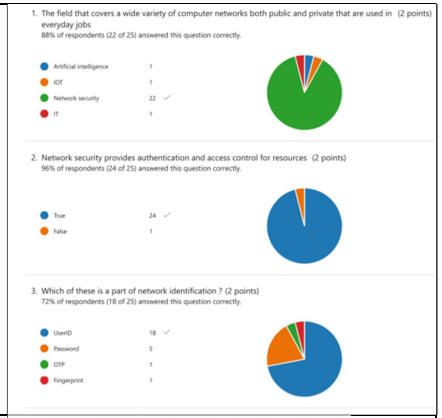
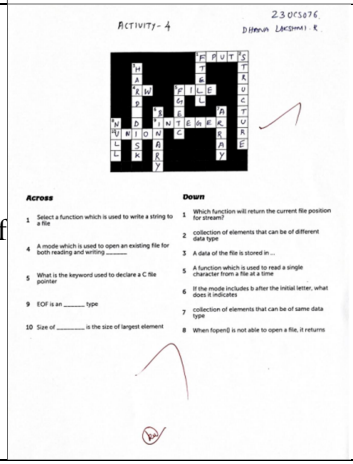
		EM2101-Coding Techniques - I	Certification Course	60	To Improve the Logical Thinking of the students	
			Bingo	60	To provide students with an opportunity to pay attention to terminology as they need to spell each word correctly.	
15.	D RAJ AP CSE	CS2203 / System Software and Operating Systems	Seminar	62	To improve the presentation and communications skills of the students and refresh the concepts.	

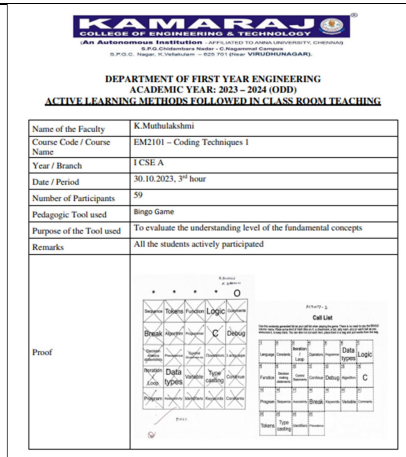
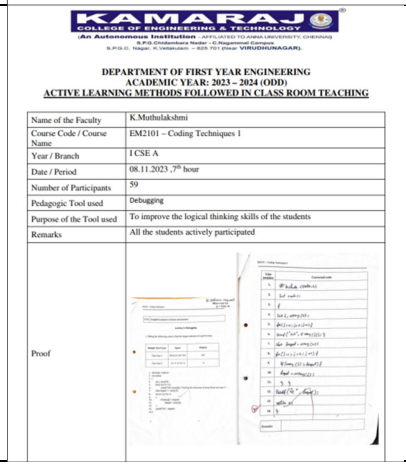
16.	D RAJ AP CSE	CS2203 / System Software and Operating Systems	Crossword Puzzle	62	To understand the basic knowledge and key concepts in operating system	
17.	D RAJ AP CSE	CS2203 / System Software and Operating Systems	Worksheet	59	To make and access the students to understand CPU Scheduling	 CS2203-System Software and Operating Systems – Unit 2 – Work Sheet - CPU Scheduling UNIT II WORKSHEET CPU Scheduling Algorithms in Operating Systems Objectives of Process Scheduling Algorithm • Maximum CPU utilization [Keep CPU as busy as possible] Fair allocation of CPU. • Maximum throughput [Number of processes that complete their execution per time unit] • Minimum turnaround time [Time taken by a process to finish execution] • Minimum waiting time [Time a process waits in ready queue] • Minimum response time [Time when a process produces first response] Formulas: ○ Arrival Time: Time at which the process arrives in the ready queue. ○ Completion Time: Time at which process completes its execution. ○ Burst Time: Time required by a process for CPU execution. ○ Turn Around Time: Time Difference between completion time and arrival time. ▪ Turn Around Time = Completion Time – Arrival Time ○ Waiting Time(W.T): Time Difference between turnaround time and burst time. ▪ Waiting Time = Turn Around Time – Burst Time

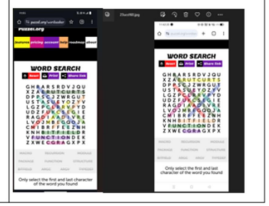
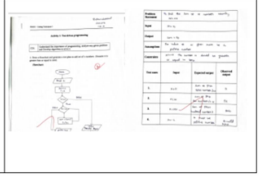
18.	D RAJ AP CSE	EM2101 / CODING TECHNIQUES - 1	Word Search	58	To easily hold the keywords in their mind	
19.	D RAJ AP CSE	EM2101 / CODING TECHNIQUES - 1	Crossword Puzzle	58	To understand the basic knowledge and key concepts in operating system	

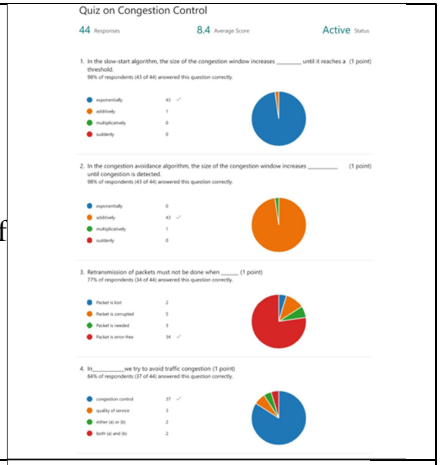
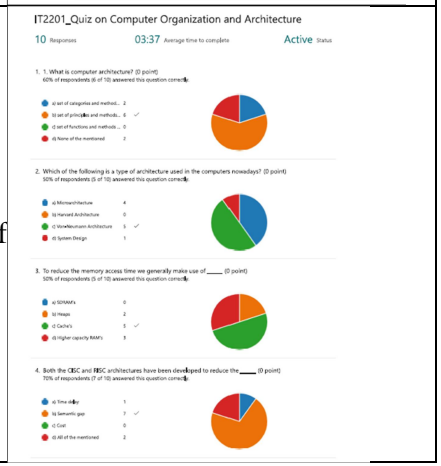
20.	D RAJ AP CSE	EM2101 / CODING TECHNIQUES - 1	Debugging	58	To Practice to the reduce the no. of errors.	
21.	D RAJ AP CSE	EM2101 / CODING TECHNIQUES - 1	Online Course	58	To Improve the Logical Thinking of the students	
22.	G PRAVEEN KUMAR AP CSE	EM2101 / CODING TECHNIQUES - 1	Making bingo based on C programming	65	Student can understand different data types in C	

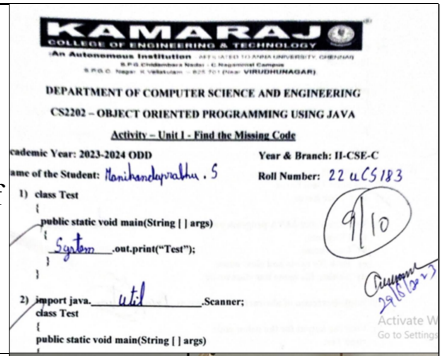
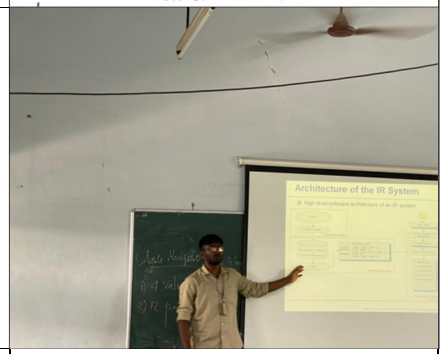
23.	G PRAVEEN KUMAR AP CSE	EM2101 / CODING TECHNIQUES - 1	Infosys springboard Certification	65	To understand the C programming in depth manner	
24.			Debugging	65	To understand how to do debugging	
25.	Mrs.K.Muthulakshmi	IT1671 – Cryptography and Network Security		54		

		IT1681 – Cryptography and Network Security Lab	Quiz in Microsoft office forms			
		EM2101 – Coding Techniques 1	Cross word Puzzle	59	To improve the understanding level of the students	

	Mrs.K.Muthulakshmi		Bingo Game	59	To revise the concepts	 KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY (An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI) S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR). DEPARTMENT OF FIRST YEAR ENGINEERING ACADEMIC YEAR: 2023 – 2024 (ODD) ACTIVE LEARNING METHODS FOLLOWED IN CLASS ROOM TEACHING Name of the Faculty: K.Muthulakshmi Course Code / Course Name: EM2101 – Coding Techniques 1 Year / Branch: I CSE A Date / Period: 30.10.2023, 3rd hour Number of Participants: 59 Pedagogic Tool used: Bingo Game Purpose of the Tool used: To evaluate the understanding level of the fundamental concepts Remarks: All the students actively participated Proof
		EM2101 – Coding Techniques 1	Debugging Worksheet	59	To improve the debugging skills of the students	 KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY (An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI) S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR). DEPARTMENT OF FIRST YEAR ENGINEERING ACADEMIC YEAR: 2023 – 2024 (ODD) ACTIVE LEARNING METHODS FOLLOWED IN CLASS ROOM TEACHING Name of the Faculty: K.Muthulakshmi Course Code / Course Name: EM2101 – Coding Techniques 1 Year / Branch: I CSE A Date / Period: 08.11.2023, 7th hour Number of Participants: 59 Pedagogic Tool used: Debugging Purpose of the Tool used: To improve the logical thinking skills of the students Remarks: All the students actively participated Proof

		EM2101 – Coding Techniques 1	Playword Search	59	To improve the Concept mapping and understanding level	KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY (An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI) S.P.G.Chidambara Nadar - C.Rajammal Campus S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR). DEPARTMENT OF FIRST YEAR ENGINEERING ACADEMIC YEAR: 2023 – 2024 (ODD) ACTIVE LEARNING METHODS FOLLOWED IN CLASS ROOM TEACHING Name of the Faculty: K.Muthulakshmi. Course Code / Course Name: EM2101 – Coding Techniques 1 Year / Branch: I CSE A Date / Period: 15.12.2023 3rd hour Number of Participants: 53 Pedagogic Tool used: Play Word Search Purpose of the Tool used: To improve the concept mapping and understanding level of the students Remarks: All the students actively participated Proof: 
			Test driven programming	59	To improve the programming skills	KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY (An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI) S.P.G.Chidambara Nadar - C.Rajammal Campus S.P.G.C. Nagar, K.Vellakulam – 625 701 (Near VIRUDHUNAGAR). DEPARTMENT OF FIRST YEAR ENGINEERING ACADEMIC YEAR: 2023 – 2024 (ODD) ACTIVE LEARNING METHODS FOLLOWED IN CLASS ROOM TEACHING Name of the Faculty: K.Muthulakshmi. Course Code / Course Name: EM2101 – Coding Techniques 1 Year / Branch: I CSE A Date / Period: 09.10.2023 Number of Participants: 59 Pedagogic Tool used: Test driven programming Purpose of the Tool used: To improve the programming skills Remarks: All the students actively participated Proof:  Faculty Incharge HoD/CSE

26	Dr.G.Mahalakshmi	AI2302-Computer Networks and Security	Quiz in Microsoft office forms	59	To improve the understanding level of the students	
		IT2201-Computer Orgnaization and Architecture	Quiz in Microsoft office forms	62	To improve the understanding level of the students	

27.	Mrs.S.Athilakshmi	CS2202-Object Oriented Programming using JAVA	Find the missing code	60	To enhance the logical skill and programming skill of the students	 KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY (An Autonomous Institution) DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING CS2202 – OBJECT ORIENTED PROGRAMMING USING JAVA Activity – Unit I - Find the Missing Code cademic Year: 2023-2024 ODD Year & Branch: II-CSE-C ame of the Student: Manikandaprabhu . S Roll Number: 22uCS183 9/10 1) class Test { public static void main(String [ ] args) { System .out.print("Test"); } } 2) import java. util .Scanner; class Test { public static void main(String [ ] args)
		VCS316 – Information Retrieval Techniques	Think Pair Share	58	Peer Learning	
28	Dr.GNirmala	CS2202-Object Oriented Programming using JAVA	One minute Paper	60	To recall the programming concepts skill of the students	

	Dr.GNirmala	AI2201 Artificial Intelligence	Word Search	59	To easily hold the keywords in mind	