KAMARAJ COLLEGE OF ENGINEERING & TECHNOLOGY

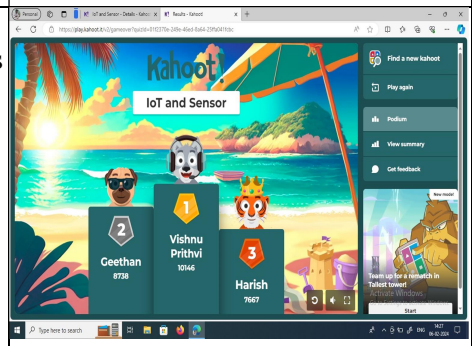
(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

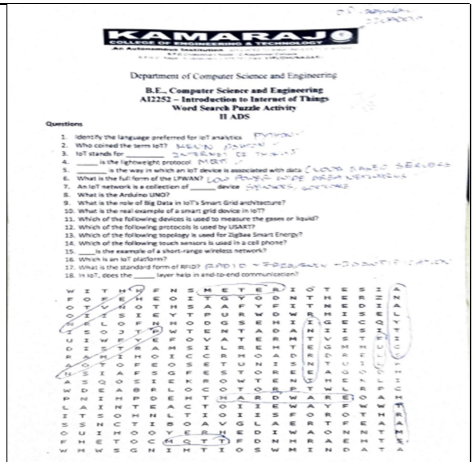
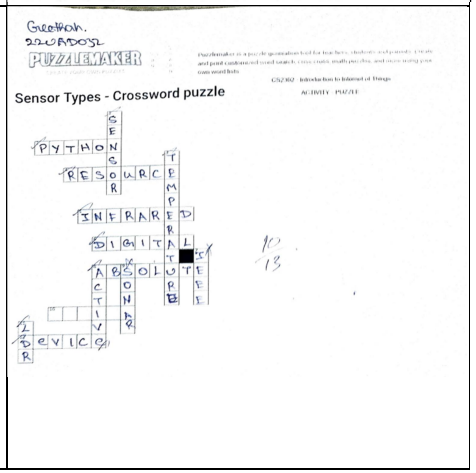
(Approved by AICTE,New Delhi)

Department of Computer Science and Engineering

Active Learning Methods Followed in Class Room Teaching

2023– 2024 [EVEN]

S. No.	Name of the faculty	Subject name withcode	Pedagogical tool used(ICT tool / Other pedagogical tools likeJigsaw, Think-Pair-Share etc)	Number of student participants	Purpose of the tool used	Proof(photos)
1.	Dr.A.Anandh	AI2252 – Introduction to Internet of Things	Kahoot Quiz	IIADS - 59	It enhances a student's learning. Also, it makes it fun and interactive, keeping participants engaged and motivated.	

		AI2252 – Introduction to Internet of Things	Word Search	59	To understand the basic definition of the keywords associated with IoT.	
		AI2252 – Introduction to Internet of Things	Cross Word Puzzle	63	To understand the basic information and key concepts about IoT.	

KAMARAJ
COLLEGE OF ENGINEERING & TECHNOLOGY
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Department of Computer Science and Engineering

B.E., Computer Science and Engineering
AI2252 – Introduction to Internet of Things
Word Search Puzzle Activity
II ADS

Questions

1. Identify the language preferred for IoT analytics
2. Who coined the term IoT?
3. IoT stands for _____
4. _____ is the lightweight protocol
5. _____ is the way in which an IoT device is associated with data
6. What is the full form of the LPWAN?
7. An IoT network is a collection of _____ device
8. What is the Arduino UNO?
9. What is the role of Big Data in IoT's Smart Grid architecture?
10. What is the real example of a smart grid device in IoT?
11. Which of the following devices is used to measure the gases or liquid?
12. Which of the following protocols is used by USAR??
13. Which of the following topology is used for Zigbee Smart Energy?
14. Which of the following touch sensors is used in a cell phone?
15. _____ is the example of a short-range wireless network?
16. Which is an IoT platform?
17. What is the standard form of RFID?
18. In IoT, does the _____ layer help in end-to-end communication?

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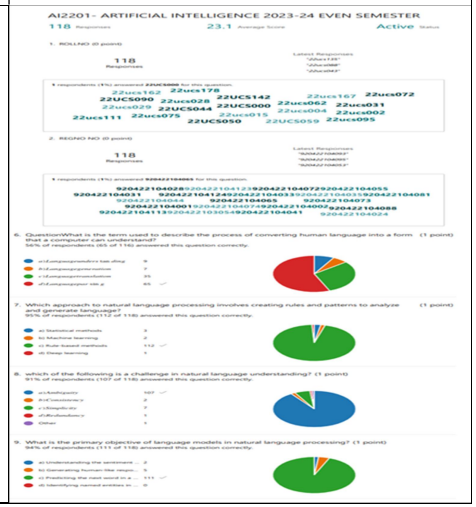
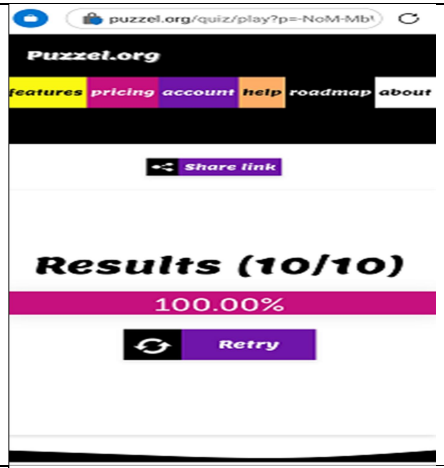
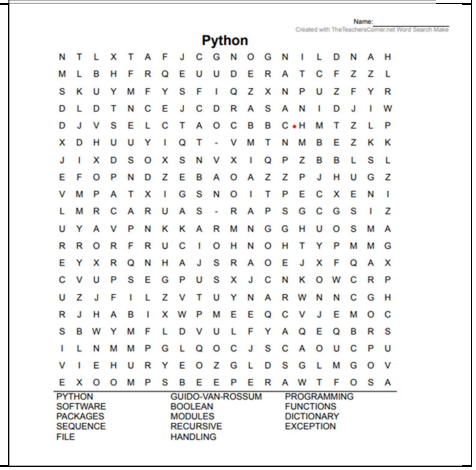
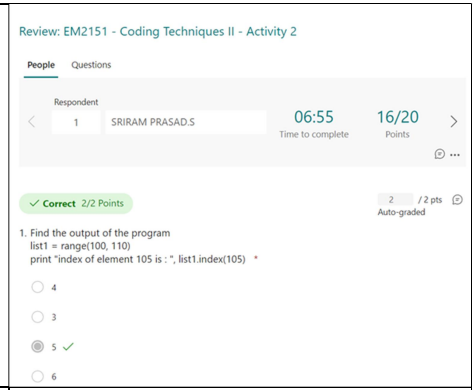
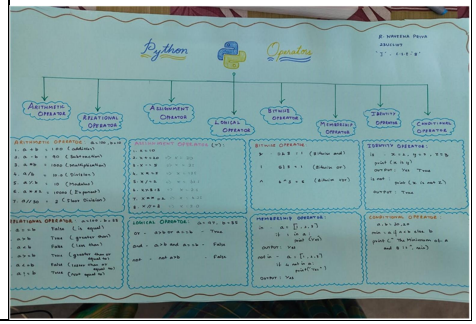
PUZZLEMAKER
Puzzlemaker is a puzzle generation tool for teachers, students and parents. Create and print customized word search, cross-words, math puzzles, and more using your own word lists.
CS2302 Introduction to Internet of Things
ACTIVITY PUZZLE

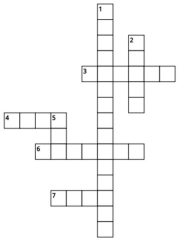
Sensor Types - Crossword puzzle

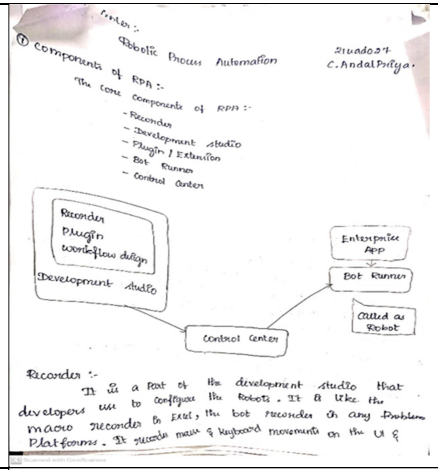
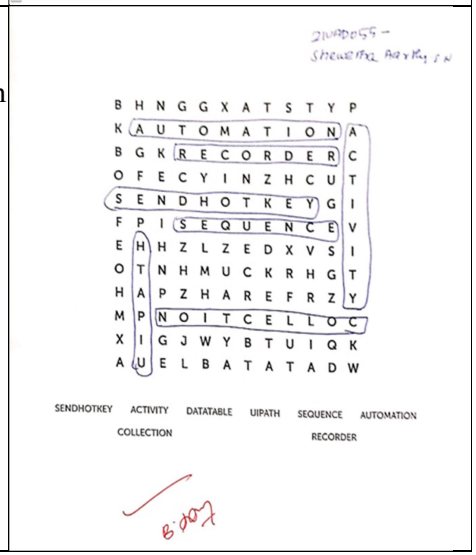
2.	J.Lavanya	VCS343- Game Design Techniques	Quizizz	48	To understand the concepts of 2D & 3D games	
3	Dr.R.Muthuselvi	AI2201 Artificial Intelligence	Quiz in MS Office Form	62	To improve the knowledge gained for the topic Robot Hardware	

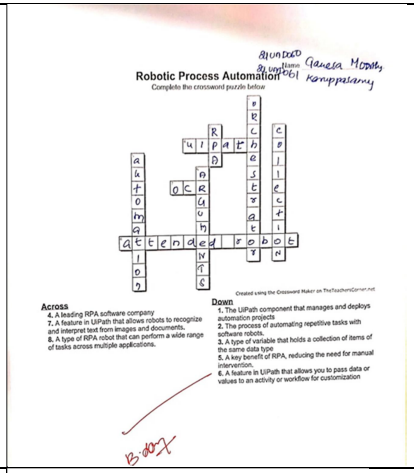
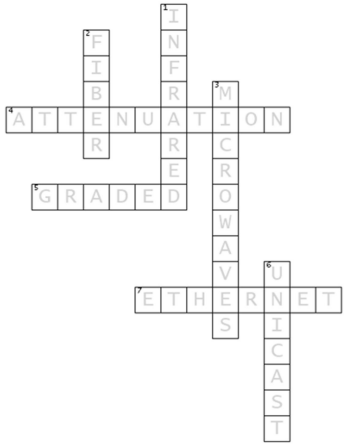
	Dr.R.Muthuselvi	AI2201 Artificial Intelligence	Usage of simulator	62	To make the students to understand Min Max algorithm by visualizing the concep	
3.	Mrs.V.Sangeetha	VCS326- UI UX Design (III ADS)	Card Sorting	62	To improve the brain activity of the students and make them to arrange the cards in order.	
			Word Search	62	To improve the brain activity of the students and make them to search the words.	

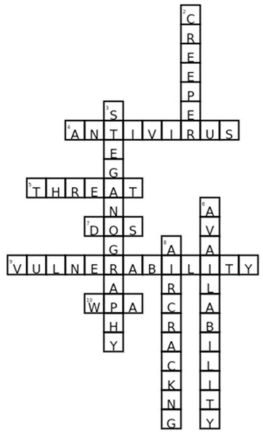
			Puzzle	62	To understand the basic information and key concepts about Figma Design.	
	Mrs.V.Sangeetha	EM2151- Coding Techniques-II (I CSE B)	Word Seach	58	To improve the brain activity of the student	

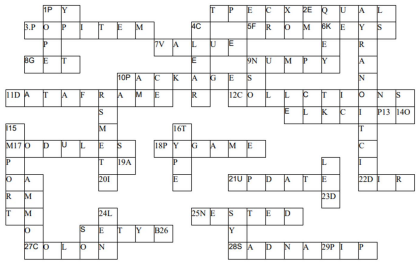
			Quiz	58	To understand the concepts of Python.	
			Chart Preparation	58	To improve the creativity of the student	

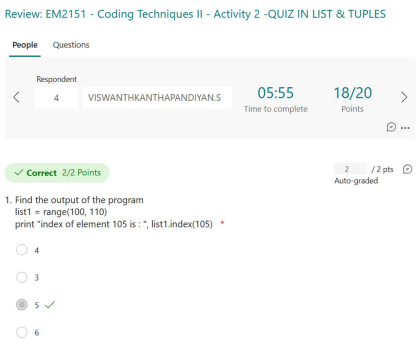
4.	S. Janani	VCS325 – Application Development using Flutter	Scrambled word on the topic – Flutter Layout	32	Can easily keep the key terms in memory	**ACTIVITY- LAYOUT IN FLUTTER** 1. Which widget allows you to position its child within itself using fractional coordinates in Flutter? **Answer:** Positioned IDSINOEOTP _____ 2. Which widget is used to display an image from the network in Flutter? **Answer:** Image.network RMITGEENKOWA _____ 3. How do you create a grid layout with a fixed number of columns in Flutter? **Answer:** GridView.count IREGUNCVDIOTW _____ 4. Which widget is used to create a button in Flutter? **Answer:** RaisedButton ISOBANTDTERU _____ 5. What property is used to define the dimensions of a widget in Flutter? **Answer:** size ISZE _____ 6. What widget is used to create a text input field in Flutter? **Answer:** TextField XDFLETTEI _____ 7. How do you add elevation to a widget to give it a shadow effect in Flutter? **Answer:** elevation ATVENIOEL _____ 8. What widget is used to arrange its children linearly in a vertical direction in Flutter? **Answer:** Column LOMUNC _____
		VCS325 – Application Development using Flutter	Crossword Puzzle on the topic – Flutter Architecture	34	To understand the basic terms used in the topic with its description	**Flutter Architecture**  **Across** **3.** The main function in a Flutter app typically calls this method to run the app **4.** A package used for managing app state in Flutter **6.** Flutter's build tool used for compiling, testing, and packaging apps **7.** Widget used for displaying text in a Flutter app **Down** **1.** A widget used for handling user gestures like tapping or dragging **2.** Flutter widget used for displaying images **5.** Language used to describe the layout of UI elements in Flutter

5.	B.Santhi Priya	VCS311 - Robotic Process Automation	One Minute Paper	45	To encourage the students to recollect the RPA Methods	
		VCS311 - Robotic Process Automation	Word Search	45	To encourage the students to remember the new terminology in RPA	

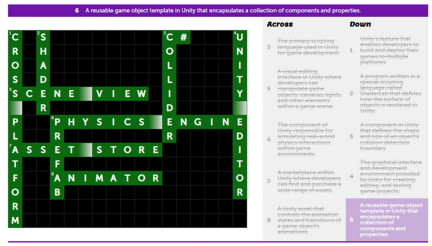
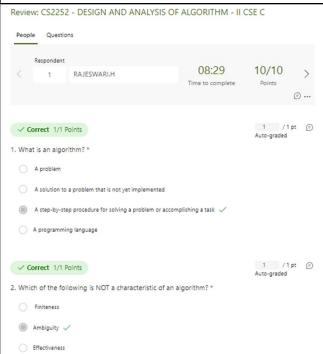
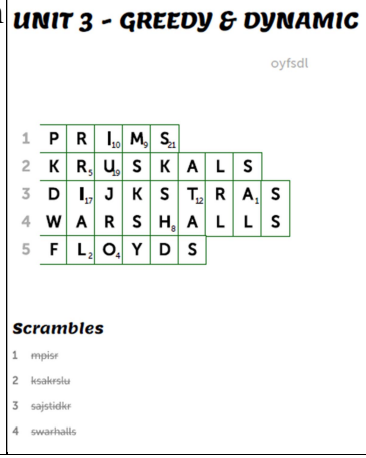
		VCS311 - Robotic Process Automation	Cross Word Puzzle	45	To encourage the students to recollect the RPA concepts	
6.	Dr.G.Uma Maheswari	CS2304 Networking Essentials	Crossword Puzzle making	62	To the terminologies with their definitions	

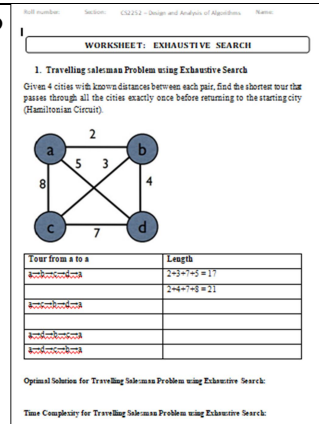
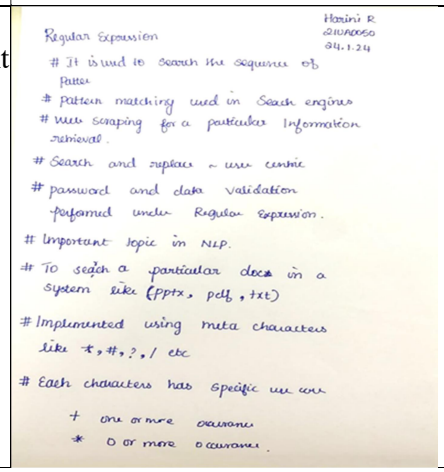
			Abbreviations	62	To get familiar with the technical terms	1. DHCP 2. CSMA/CD 3. CSMA/CA 4. FTP 5. TCP 6. UDP 7. MAC 8. ICMP 9. SMTP 10. PPP 11. HDLC 12. OSI 13. ISO 14. DNS 15. HTTP
		VCS332 Principles of Cyber Security	Crossword Puzzle making	58	To the terminologies with their definitions	

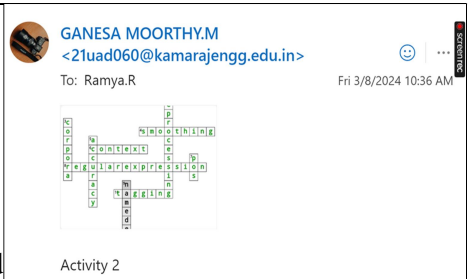
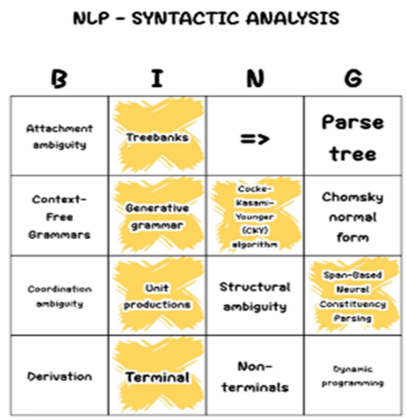
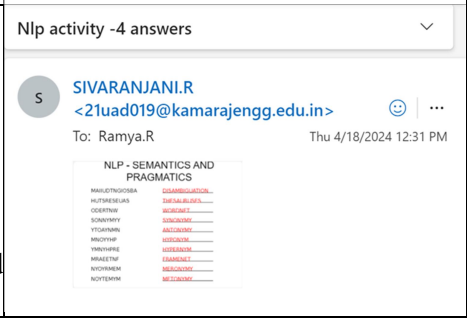
			Jumbled words	58	To get familiar with the technical terms	1 afliewlr 2 yiepontrcn 3 rwalmae 4 nihhisgp 5 ntoebt 6 otwnker 7 wanorraems 8 cttcaareybk 9 antsorccocsel 10 idcyoerptn 11 atasbdae 12 atneotichaitun 13 prgcphartoyy 14 tnirusoin 15 taurivnis 16 deceod 17 takecatrs 18 btadgia 19 xetrehpcit 20 useridsolc
7.	S.NITHYA	EM2151- CODING TECHNIQUES –II (I CSE A)	Crossword Puzzle	59	To improve the brain activity of the student	Python Programming  **Left to Right** 1.Python module is a file with the .____ file extension. 2. The _____ symbol is used to copy dictionary to another dictionary. 3. The inbuilt function _____ returns removes the key-value pair from the dictionary. 5. The inbuilt function _____ returns a dictionary with the specified keys and value. 7. The dict.____() returns a view object contains the values of the dictionary, as a list. **Down** 1. The inbuilt function _____ returns and removes onethe element for the given key. 4. The inbuilt function _____ removes all the andelements from the dictionary. 6. In key and pair value of dictionary, _____ should be unique. 15._____ keyword is used to call a specific function whichfrom a module in Python. 16._____ in built function returns the type of
			Chart Preparation	59	To improve the creativity of the student	

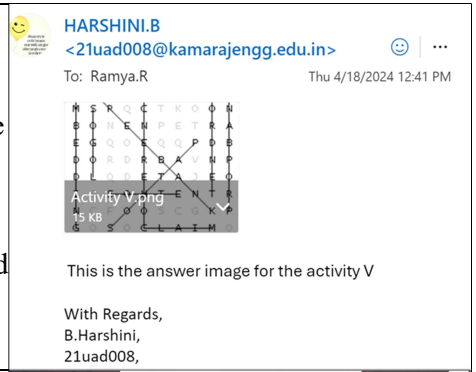
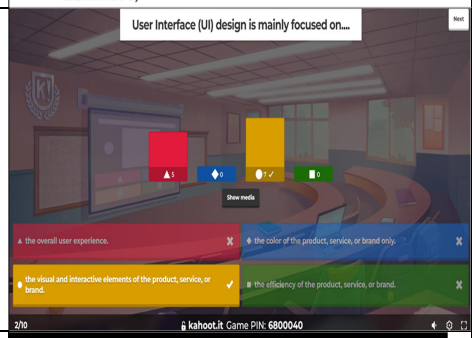
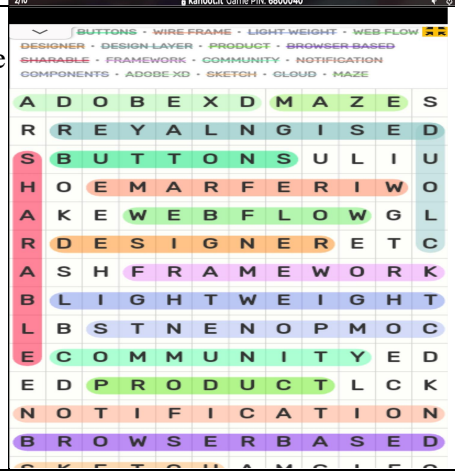
			Quiz	59	To understand the concepts of Python.	
8.		DESIGN AND ANALYSIS OF ALGORITHM	Quiz		To understand the concept of Algorithms	

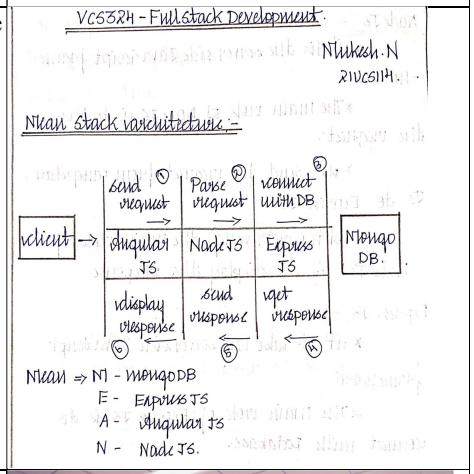
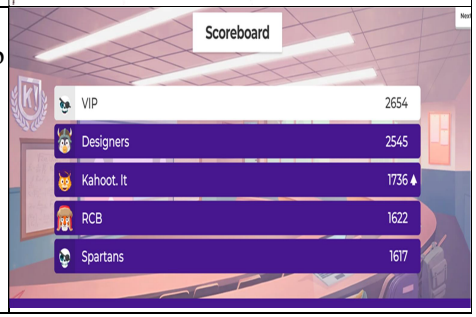
9.	R.Indhuja	VCS343-GAME DESIGN TECHNIQUES	**ONLINE QUIZ**	31	To know what and how much they have understood about a subject	
		VCS343-GAME DESIGN TECH NIQUES	**SCRAMBLED WORDS**	31	To enhance the vocabulary and spelling skills by unscrambling letters to form words	ROLL NO: 21UCS119 ACTIVITY_WORD SCAMBLE SRUE USER ENAERFC/T INTERFACE NMAT'NEAGEM MANAGEMENT MEGA GAME NEEGNI ENGINE RAMWOKEFR FRAMEWORK

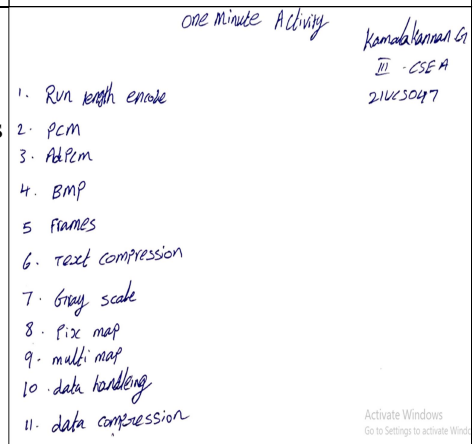
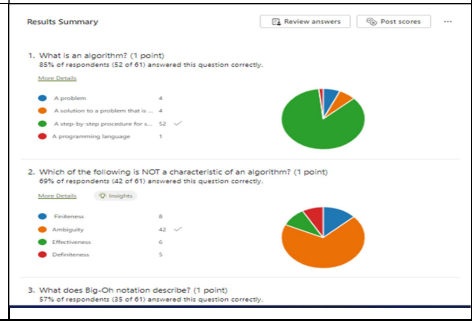
		VCS343-GAME DESIGN TECHNIQUES	**CROSSWORD PUZZLE**	31	To expand the vocabulary and critical thinking skills while reinforcing learning in various subjects.	
10.	K.Indumathi	CS2252-Design and Analysis of Algorithms	Online Quiz	62	To know the understanding about a algorithm fundamentals	
		CS2252-Design and Analysis of Algorithms	Scrambled words	62	To get familiar with various algorithms	

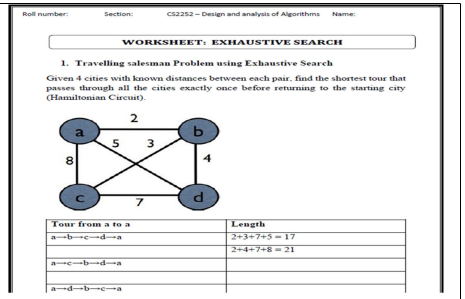
		CS2252-Design and Analysis of Algorithms	Worksheet	62	To make the students to understand about problems	 Roll number: Section: CS2252 – Design and Analysis of Algorithms Name: **WORKSHEET: EXHAUSTIVE SEARCH** **1. Travelling salesman Problem using Exhaustive Search** Given 4 cities with known distances between each pair, find the shortest tour that passes through all the cities exactly once before returning to the starting city (Hamiltonian Circuit). a, b, c, d; 2, 5, 3, 8, 4, 7 **Tour from a to a** / **Length** a→b→c→d→a / 2+3+7+5 = 17 a→c→b→d→a / 2+4+7+8 = 21 a→d→b→c→a a→d→c→b→a **Optimal Solution for Travelling Salesman Problem using Exhaustive Search:** **Time Complexity for Travelling Salesman Problem using Exhaustive Search:**
11.	R.Ramya	AI2351 Fundamentals of Natural Language Processing	One Minute Paper	62	To understand what was the most important thing, they learnt in class today; and what remains unclear to them	 Harini R 210A0050 24.1.24 Regular Expression # It is used to search the sequence of Patter # pattern matching used in Search engines # web scraping for a particular Information retrieval. # Search and replace - use centric # password and data validation performed under Regular Expression. # Important topic in NLP. # To search a particular docs in a system like (pptx, pdf, txt) # Implemented using meta characters like *, #, ?, / etc # Each characters has specific use case + one or more occurance * 0 or more occurance.

			Crossword Puzzle	62	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	61	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	57	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	57	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.	
12.	Mrs.X.Ignatius Selvarani	VCS326 – UI UX Design	Online Quiz	46	To encourage the students to recollect the UI Elements	
			Word Search	46	To provide an opportunity to evaluate their knowledge and improve the key terminologies	

13.	Mrs.X.Ignatius Selvarani	VCS324-Full Stack Development	Seminar	48	To explore and share the Knowledge acquired on specific topic	
			One minute paper	48	To recall the architecture of MEAN Stack	
			Quiz	48	To understand the components of Bootstrap	

14.	Dr.G.Mahalakshmi	CS2253- Software Engineering with UML design	Crossword Puzzle	62	To encourage the students to remember the keywords in software testing techniques	
		VCS-341 Multimedia System	One minute paper	63	To encourage the students to recollect the Multimedia Transmisson protocols	
15.	S.Athilakshmi	CS2202-Design and Analysis of Algorithms	Quiz	61	To give the depth knowledge on introduction to design and analysis of algorithms	

			Worksheet	61	To give more practice on Algorithm Approaches	 Roll number: Section: CS2252 – Design and analysis of Algorithms Name: **WORKSHEET: EXHAUSTIVE SEARCH** **1. Travelling salesman Problem using Exhaustive Search** Given 4 cities with known distances between each pair, find the shortest tour that passes through all the cities exactly once before returning to the starting city (Hamiltonian Circuit). a, b, c, d; 2, 5, 3, 8, 4, 7 Tour from a to a: a→b→c→d→a — Length: 2+3+7+5 = 17 a→c→b→d→a — 2+4+7+8 = 21 a→d→b→c→a
			Seminar	61	To explore and share the knowledge acquired	
16	V.Rajesh Kannan	CS2201 Data Base Management Systems	Roll Play	55	To Demonstrate Transaction process in DBMS	