

G PULLA REDDY ENGINEERING COLLEGE (Autonomous): Kurnool
Affiliated to JNTUA Ananthapuramu
Academic Year 2020-21

STUDENT CENTRIC LEARNING METHODS

Teaching Strategy: Learning while Playing (Gamification Learning)

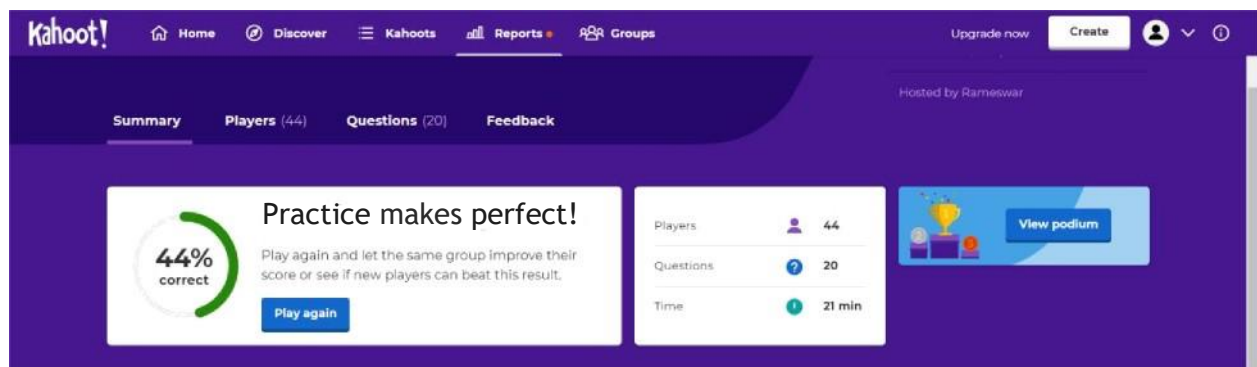
Kahoot! is a game-based student response system (GSRS) where the classroom is temporarily transformed into a game show where the teacher is the game show host, and the students are the contenders . Kahoot is used to review students' knowledge, for formative assessment or as a break from traditional classroom activities.

In our class, we use Kahoot! to reinforce and practice skills on which we are focusing, and as a teacher, I am able to get instant feedback on engagement and understanding. Kahoot! can be used for all grade levels and content areas, in any language, and with any device, it is an ideal platform for them regardless of where their professional paths may lead them in the future.

Advantages of Kahoot

Kahoot is a very beneficial and outstanding tool in today's virtual world of learning. Coming to the advantages, it is very helpful for learners. Given below are the in-depth advantages of Kahoot.

- The first and foremost advantage of Kahoot is that it offers a great engagement from the students' side. They enjoy it as it is a visualized and unique type of quiz.
- As the students' interest level is high, the teachers can easily assess the understanding level through quizzes and polls.
- Kahoot has become very successful in reducing monotony and boredom.
- It is an energetic and lively platform.
- It can be used as a tool of assessment for the teachers.
- Kahoot has been successful in creating a positive environment among the students by creating motivation.
- It has increased the students' performance due to an increase in the student's attendance.
- It has effectively reduced students' frustration levels and the stress about the fear of formative assessments in the traditional method.



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Network Security and Cryptography

IV B.Tech. VIII-Sem

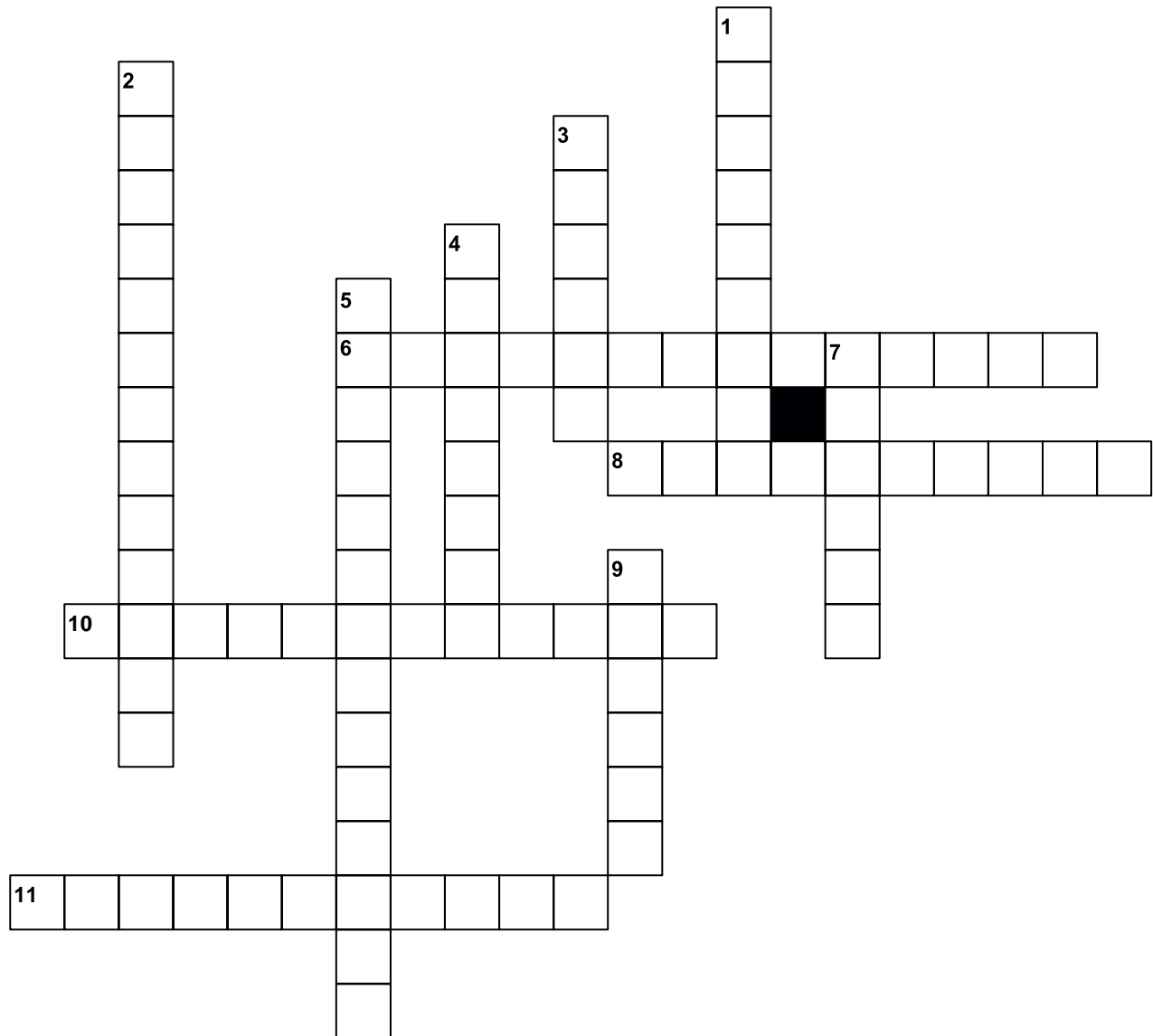
Educational Crossword Puzzles

Educational crossword puzzles offer a strong learning tool to all kinds of students when applied with a clear and tailored educational purpose.

The following are the potential uses for educational crossword puzzles in the classroom:

1. Active Learning strategy
2. Revision and reinforcement of concepts
3. Identifying important topics and gaps in learning
4. Student engagement in the learning process
5. Collaborative work and development of teamwork skill
6. Critical thinking and association of topics
7. Provide alternate assessment options
8. Boost student confidence
9. Think individually and improve their problem solving skills
10. Improve their test skills
11. Recall information easily
12. Generate new ideas
13. Develop critical thinking
14. Useful to memorize any topic

UNIT-I



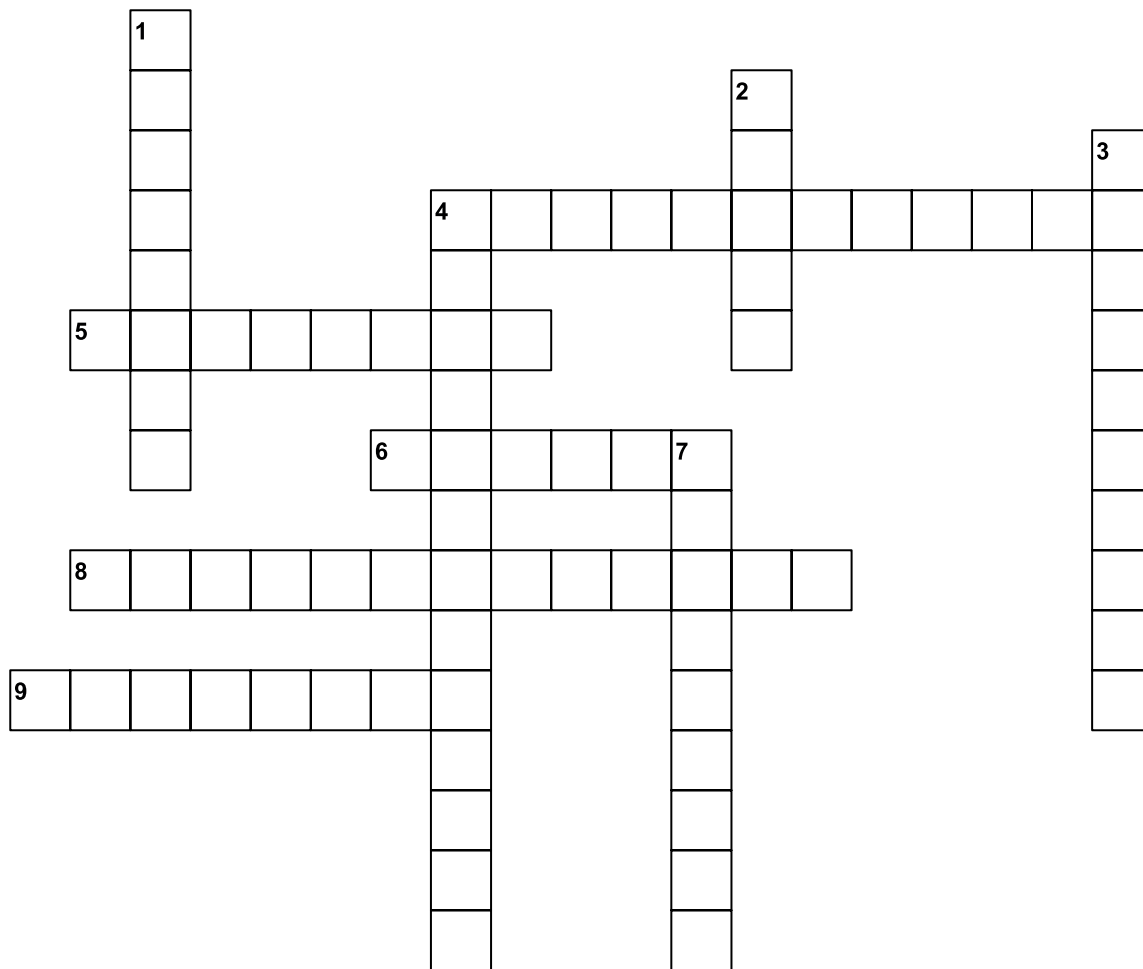
Across

- 6.** Establish proof of identity
- 8.** field of both cryptography and cryptanalysis
- 10.** study of encryption principles/methods
- 11.** Attack on Authenticity

Down

- 1.** The assurance that data received are exactly same as sent by an authorized entity
- 2.** Who can access what
- 3.** Who attempt to penetrate systems
- 4.** A person attempts to violate security
- 5.** DOS stands for
- 7.** an intelligent act that is a deliberate attempt
- 9.** a possible danger

UNIT-II



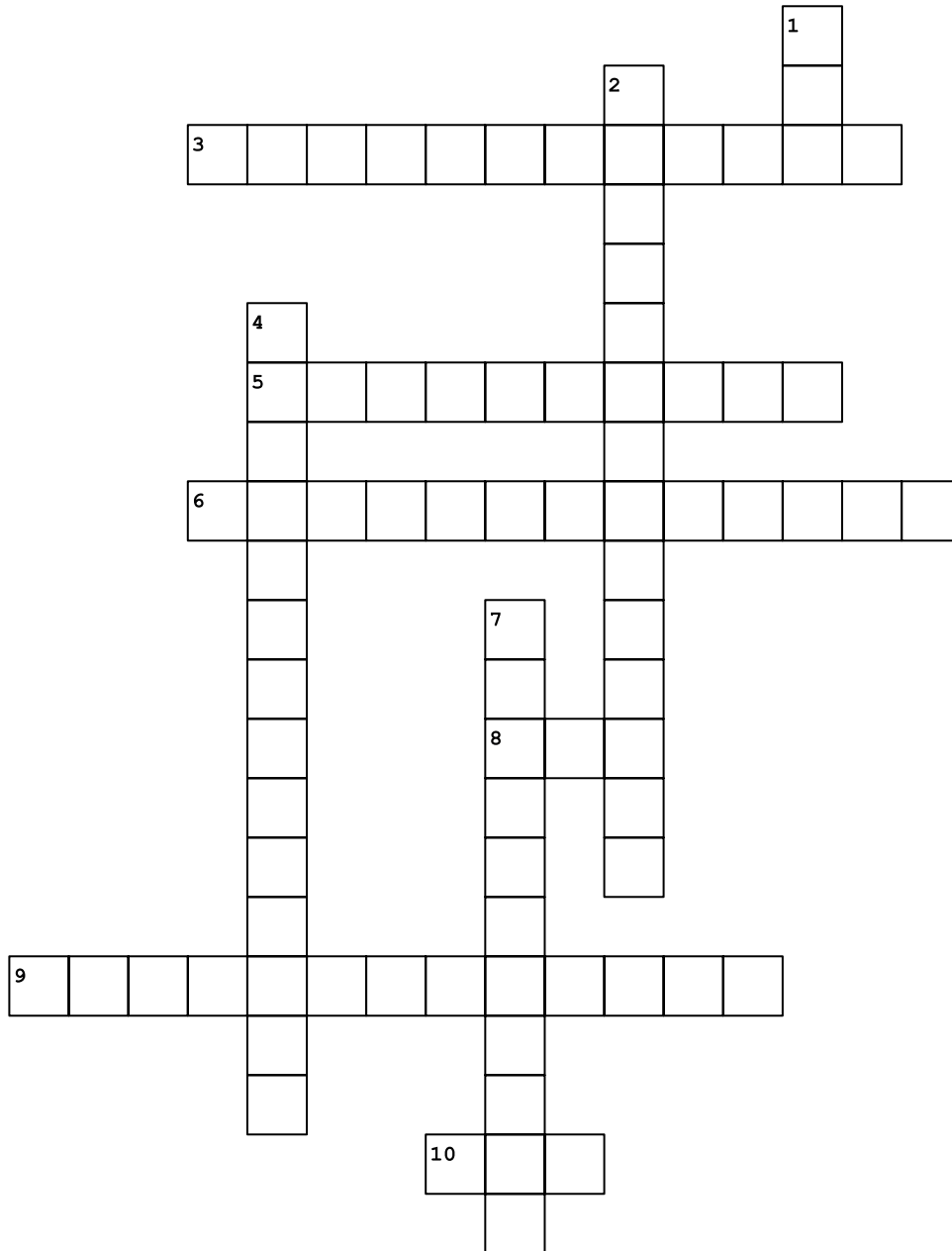
Across

- 4.** each element in the plaintext is mapped into another element
- 5.** converting ciphertext to plaintext
- 6.** Cipher with only 25 possible keys
- 8.** elements in the plaintext are rearranged
- 9.** converting plaintext to ciphertext

Down

- 1.** Dividend = _____ × Divisor + Remainder
- 2.** divisible only by itself and 1
- 3.** unbreakable cipher
- 4.** conceal the existence of the message
- 7.** example of transposition cipher

UNIT-III



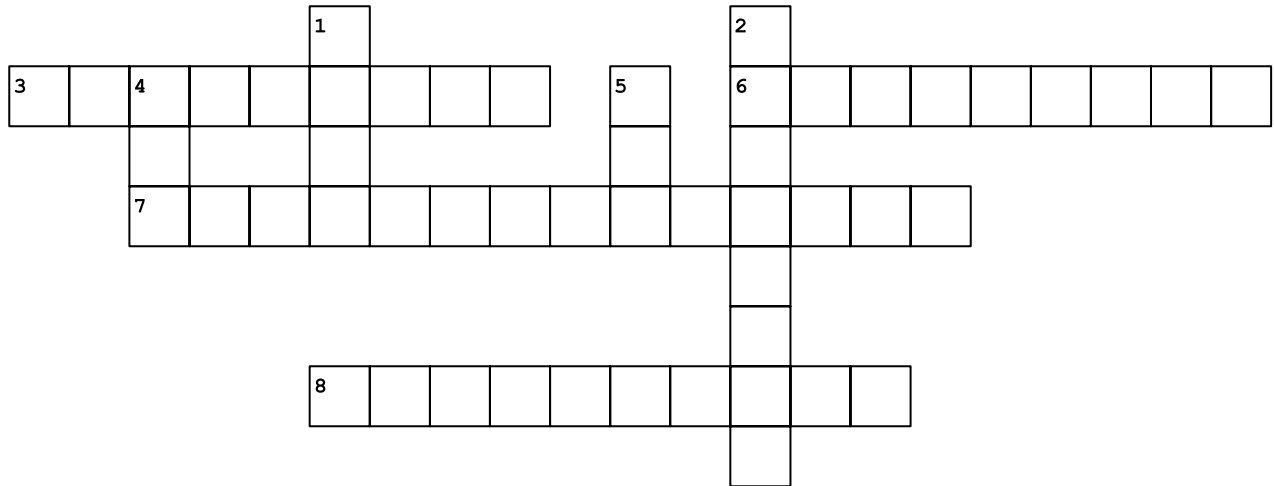
Across

- 3. In S-box, S stands for
- 5. public key cryptography
- 6. key exchange algorithm
- 8. example of public key cryptography
- 9. Product cipher is introduced byeedback
- 10. self invertible

Down

- 1. number of keys in public key cryptography
- 2. OFB stands for
- 4. attack on diffie hellman algorithm
- 7. in P-box, P stands for

UNIT-IV



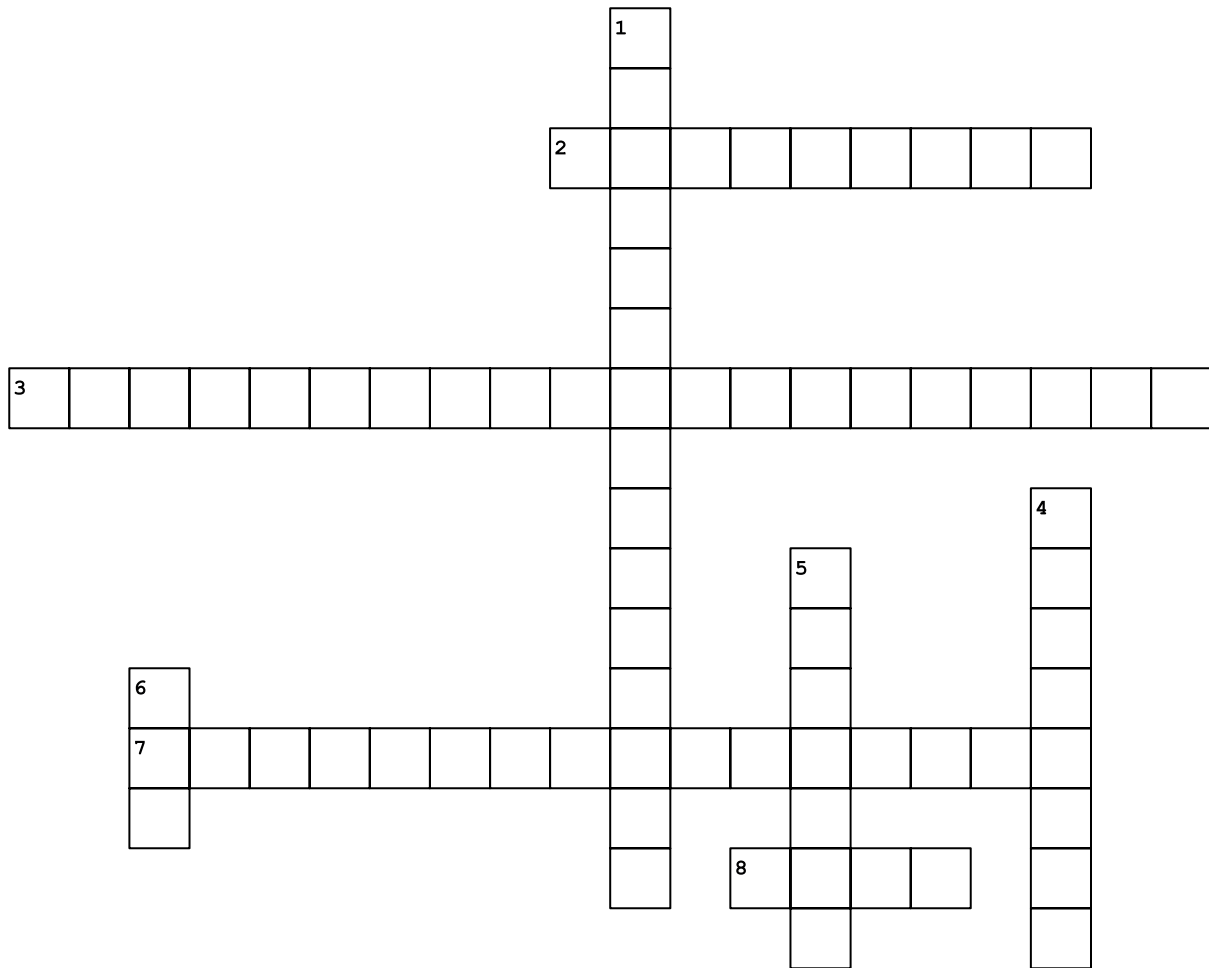
Across

- 3.** message digest
- 6.** no modification of data in transit
- 7.** mechanism to establish proof of identities
- 8.** Insertion of messages into the network from a fraudulent source

Down

- 1.** function that maps a message of any length into a fixed length hash value
- 2.** attack on hash algorithm
- 4.** Example of hash algorithm
- 5.** cryptographic checksum

UNIT-V



Across

- 2. data must arrive at the receiver exactly as sent
- 3. to prove the identity of the entity that tries to access the system's resources
- 7. authentication and nonrepudiation are provided by
- 8. function that creates a digest out of a message

Down

- 1. Digital signature cannot provide for the message
- 4. three headed dog
- 5. one of the digital signature scheme
- 6. a trusted third party that assigns a symmetric key to two parties

REPORT ON TEACHING STRATEGIES

Teaching Strategy: Teaching through Cloud Computing classroom resources

Course and Topic: Data Mining

Course Instructor: Dr.B.Santhosh Kumar

Academic Year: 2020-2021

Procedure: The teaching learning process for the entire Data Mining course was done through Google Classroom. The material regarding the course and the lectures were posted in the course page and the Quiz assessments were also conducted via Google Classroom.

The screenshot shows a Google Classroom interface for a class named "V Sem- DMG- 2020-2021 B-Section". The URL in the browser is classroom.google.com/c/MT13MzEzMTIzMDM5. The page has tabs for Stream, Classwork, People, and Grades. The main header area displays the class name, section, class code (ehxqhl), and a meet link (<https://meet.google.com/lookup/a4eudgl43o>). Below this, there is a section for "Upcoming" which shows "No work due soon" and a "View all" link. To the right, there is a section for announcements. The first announcement is from "Santhosh CSE" stating "Announce something to your class". Below that, there are two announcements: "Santhosh CSE posted a new assignment: QUIZ Feb 15 (Edited Feb 18)" and "Santhosh CSE posted a new material: Unit 5 Material Feb 12". Each announcement has a three-dot menu icon to its right. The bottom left corner of the page has a question mark icon.



+ Create



Meet



Google Calendar



Class Drive folder



QUIZ

Edited Feb 18



Unit 5 Material

Posted Feb 12



Unit 4 Material

Posted Feb 12



DMG Extra Programs

Posted Dec 7, 2020



DMG Lab Manual

Posted Dec 7, 2020



Assignment

Due Dec 16, 2020



Unit 3

Posted Oct 15, 2020



Unit 2

Posted Oct 5, 2020



G.PullaReddy Engineering College(Autonomous): Kurnool
Software Quality Testing(SQT)
Implementing Teaching Learning Strategy for the VII Semester
Academic Year 2020-2021

18/12/2020

Teaching learning Strategy: Hi-tech classroom

Various activities have been followed for the student in order to create interest over the subject.

- ▮ All classes are taught through google classroom.
- ▮ Quiz is conducted through google classroom task for assessing students.
- ▮ College gmail account – Each student is provided with a personal login in Google classroom wherein they can download Course Material, write Quiz and Assignments, submit their assignment and also they can send their queries for clarification.

For VII semester Students, Forwarded the PPTs in the Google Classroom and asked students to refer the PPTs and videos on following Topics and conducted Quiz in oral in Google classroom. Software Testing Life cycle life cycle: [Software Testing Life Cycle \(STLC\) | Software Testing Tutorial | Edureka - YouTube](#)

Differences on

1.Whitebox and Black testing techniques:

<https://www.youtube.com/watch?v=bShnacILi7k&t=18s>

2.Static and dynamic testing: https://www.youtube.com/watch?v=8XEZIOF_GIU

3.Verification and Validation(V& V diagram):

https://www.youtube.com/watch?v=5jJ_PBX3XsE

After a week i.e; on **16/12/2020** conducted quiz on the google class room.

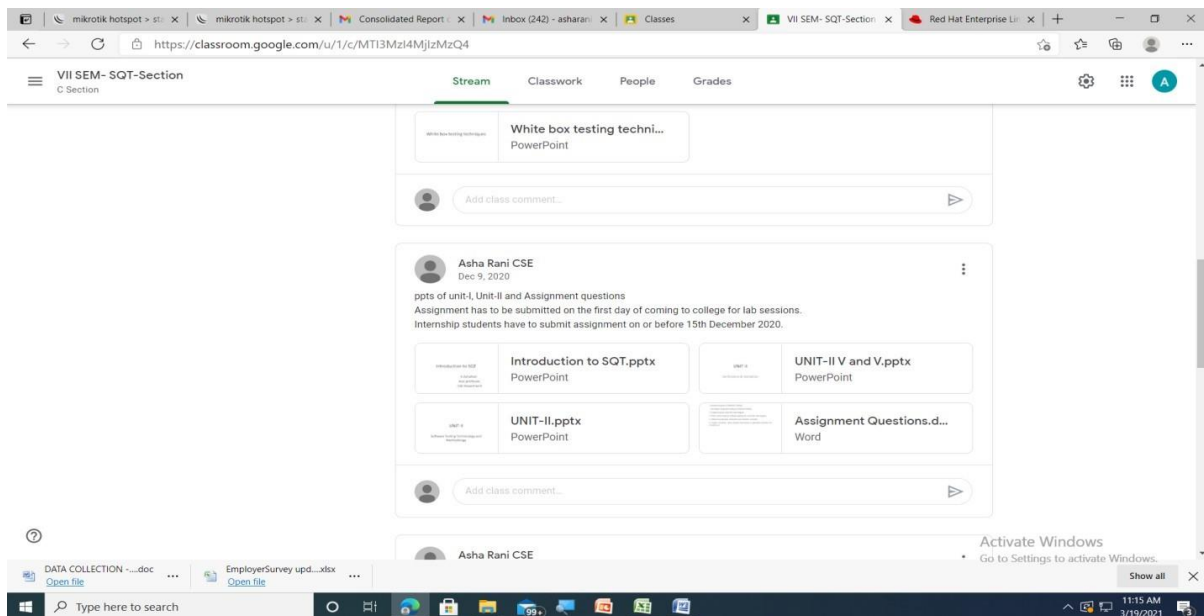
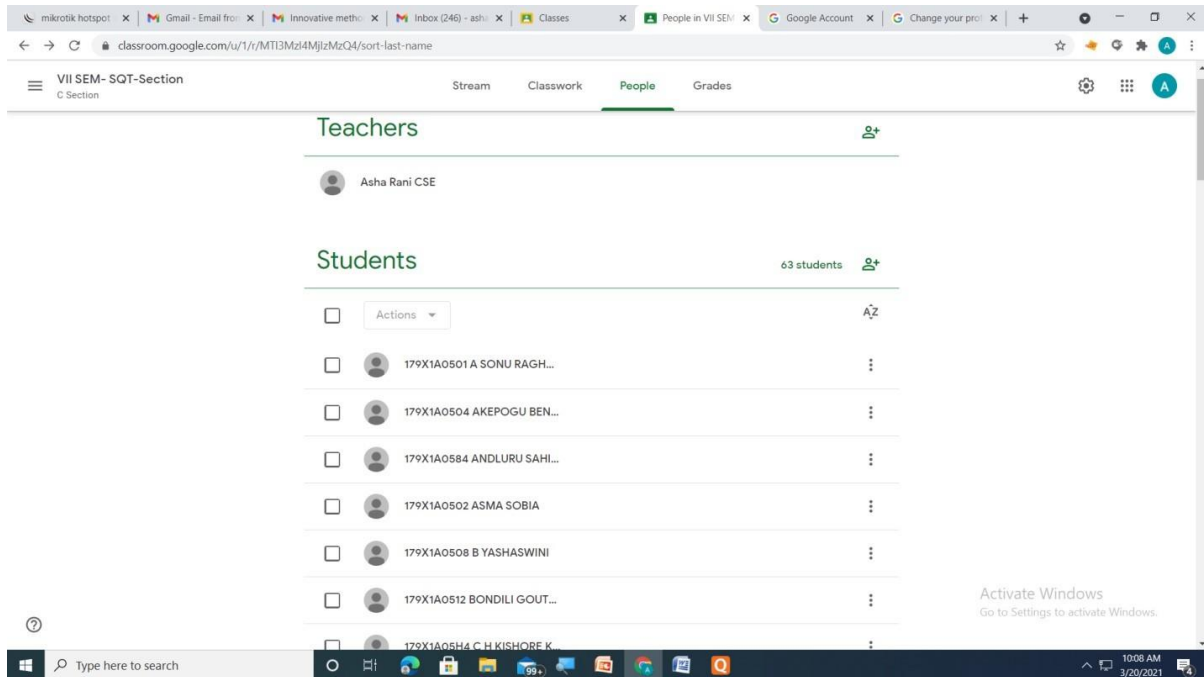
Questions Asked in the classroom are:

1. What are the deliverables or work products released at each phase of software testing life cycle?
2. Why Whitebox testing is referred as Glassbox testing?
3. Give some differences between whitebox and blackbox testing.
4. What are the activities done at verification and what are to be verified while verifying SRS.
5. What type of testings are performed at validation stage?
6. Give the differences between static and dynamic testing? What type of testing methodologies come under dynamic testing?

Some of the students answered the questions as it is online class.

Atlast I have explained some of the concepts in the class that day and the remaining concepts on next day.

Proof of students response is attached for the reference:



Proofs of students responding online are attached below:

00:00:29.524,00:00:32.524

179X1A0554 KUKATIKONDA INDUJA:White box is glassbox as internal structure is tested

00:00:33.949,00:00:36.949

179X1A0550 K NIKHITHA: in whitebox every logic,path is tested in detail mam

00:00:36.605,00:00:39.605

179X1A0502 ASMA SOBIA: whitebox is referred as glassbox as as total code,paths are tested

00:14:52.538,00:14:55.538

189X5A05J6 THOKALA SWATHI: while verifying requirements consistency,ambiguity are tested

00:19:53.446,00:19:56.446

179X1A0502 ASMA SOBIA: requirements in srs are tested keeping in mind that requirements should be complete,no ambiguity.

00:23:31.075,00:23:34.075

189X5A05K5 PUNNA SRIRANGA SAINATH: SRS, planning document,HLD,LLD,coding are verified in verification

00:24:34.760,00:24:37.760

189X5A05K5 PUNNA SRIRANGA SAINATH:and also Test plans for Functional,integration,system testing are prepared

00:28:21.952,00:28:24.952

179X1A05F9 SHEGIREDDY SUMANTHREDDY: along with above testplans, tesplan for Acceptance testing is also done

00:32:42.034,00:32:46.034

179X1A05E7 DEVATHI RAM CHARAN: Testings performed at validation stage are unit testing,integration,functional and acceptance testing testing

00:39:54.931,00:39:57.931

189X5A05J4 MOHAMMED ZAKIKAREEM: mam testing methodologies in dynamic testing are Blackbox and white box testing techniques

00:59:03.575,00:59:06.575

189X5A05K5 PUNNA SRIRANGA SAINATH: yes mam understood

00:59:07.667,00:59:21.667

189X5A05J4 MOHAMMED ZAKIKAREEM: understand mam

G.PULLA REDDY ENGINEERING COLLEGE(Autonomous) : Kurnool

Department of Computer Science and Engineering

Academic Year : 2020-21

Course Name : Programming for Problem Solving

Course Instructor: B.Thimma Reddy

Teaching Strategy: Gamification-Learning while Playing (Quizziz)

Quizziz is a game-based student response system (GSRS) where the classroom is temporarily transformed into a game show where the teacher is the game show host, and the students are the contenders . Quizziz is used to review students' knowledge, for formative assessment or as a break from traditional classroom activities.

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- ¡It has increased the students' performance due to an increase in the student's attendance.
- ¡It has effectively reduced students' frustration levels and the stress about the fear of formative assessments in the traditional method.

Browser tabs: Inbox - thimmareddybuch@gmail.com, Inbox (1) - thimmareddy.cse@gmail.com, WhatsApp, My Reports — Quizizz

Address bar: quizizz.com/admin/reports

Quizizz Admin Reports Page

User: Thimma Reddy B (Plan: Basic)

Buttons: Upgrade to Super, Create

Left Sidebar: Explore, My library, Reports (selected), Classes, Settings, More, Help

Report Table:

Type	Quiz name	Total participants	Accuracy	Code
Live	PPS Quiz-1 Completed 6 days ago	51	45%	Assign practice

Page navigation: << < 1 > >>

Activate Windows: Go to Settings to activate Windows.

Windows Taskbar: Type here to search, 16:42, 03-03-2021

Create

Explore

Reports

Settings

More

Help

PPSQuiz-1

February 25th 2021, 7:11 PM (6 days ago)

View quiz Flashcards Live Dashboard

Participants Questions Overview Topics

@ Print , Download

Sort By: Question Order

1. Which operator has the lowest precedence?

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43 participants

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Plan: Basic

Upgrade to Super

Create

PPS Quiz-1

February 25th 2021, 7:11 PM (6 days ago)

View quiz Flashcards Live Dashboard

Participants Questions Overview Topics

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mentings

K. KARTHIK

✓ 10

100% Accuracy

10180 Score

Email to Parent

Ujwala

✓ 8 ✗ 2

80% Accuracy

7560 Score

Email to Parent

Geethika

✓ 8 ✗ 2

80% Accuracy

6790 Score

Email to Parent

Help

Activate Windows
Go to Settings to activate Windows.

PPS-Quiz-2020-21

Inbox - thimmareddybuchi@gmail.com

Inbox (1) - thimmareddy.cse@gmail.com

WhatsApp

My Reports — Quizizz

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quizizz.com/admin/reports

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QUIZIZZ

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Plan: Basic

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Help

All reports

Filter by class

Filter by date

Type	Quiz name	Total participants	Accuracy	Code
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Activate Windows

Go to Settings to activate Windows.

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1. Which operator has the lowest precedence?

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43 participants

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Inbox (1) - thimmaeeddy.cse@gmail.com X

(1) WhatsApp X

PP5 Quiz-1 X

quizzizz.com/admin/reports/6037a91f635e18001e37883a/players

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B 0 Print 1 Download

Sort By: Score

M Email all parents

K. KARTHIK

✓ 10

100% Accuracy

10180 Score

Email to Parent

Ujwala

✓ 8

80% Accuracy

7560 Score

Email to Parent

Sai Nivas

✓ 8

80% Accuracy

6940 Score

Email to Parent

Geethika

✓ 8

80% Accuracy

6790 Score

Email to Parent

Teaching through Cloud Computing

Teaching Strategy Followed : Teaching through Cloud Computing

Name of the course : Data Science with R (DS with R)

Academic Year : 2020-2021

Semester : VII

Course Instructor : L.Sudha Rani

Teaching through Cloud Computing

The use of cloud computing is one such method where teachers can save vital classroom resources such as lesson plans, **notes**, audio lessons, videos, and **assignments** details on the classroom cloud. This can then be accessed by the students from the comfort of their homes, whenever needed bringing the classroom back to the students with the click on a mouse. It also ensures that students who have missed class either for illness or any other reason stay updated at all times. It eliminates the need for lugging around heavy textbooks and allows students to learn at a time, place and pace that they are comfortable with.

Topics Covered:

Unit-I

Unit-II

Unit-III

Think-Pair-Share

Teaching Strategy Followed : Think-Pair-Share
Name of the course : Data Science with R (DS with R)
Academic Year : 2020-2021
Semester : VII
Course Instructor : L.Sudha Rani

Think-Pair-Share

Think-pair-share (TPS) is a collaborative learning strategy where students work together to solve a problem or answer a question about an assigned reading. This strategy requires students to (1) think individually about a topic or answer to a question; and (2) share ideas with classmates. Discussing with a partner maximizes participation, focuses attention and engages students in comprehending the reading material.

Topics Covered

Solving Classification Problems, Scoring Problems