



**Hope Foundation's
International Institute of Information Technology, Pune
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION**

Innovative Practices in Teaching-Learning

CBSE POSTER MAKING Activity

Academic Year and Semester: AY 2023-24 Sem II

Branch: E&TC

Class: BE

Subject: Mobile Computing

Subject code: 404191E

Day and Date: Wednesday, 10/04/2024

Objectives of the activity:

- a) To adapt Innovative teaching learning methodology to obtain maximum involvement of learners.
- b) Learn interfacing of real-world use cases in AI
- c) To encourage Self-learning from the real world problem and provide the effective solution with basic concept of the AI and the telecommunication.

The learning outcomes of the activity:

After completion of the activity students will be able to:

- a) Understand the fundamentals of Telecommunication industry and requirement. [Application]
- b) Develop logic for AI models according to applications. [Application]

No. of Students attended: 48

List of resources shared:-

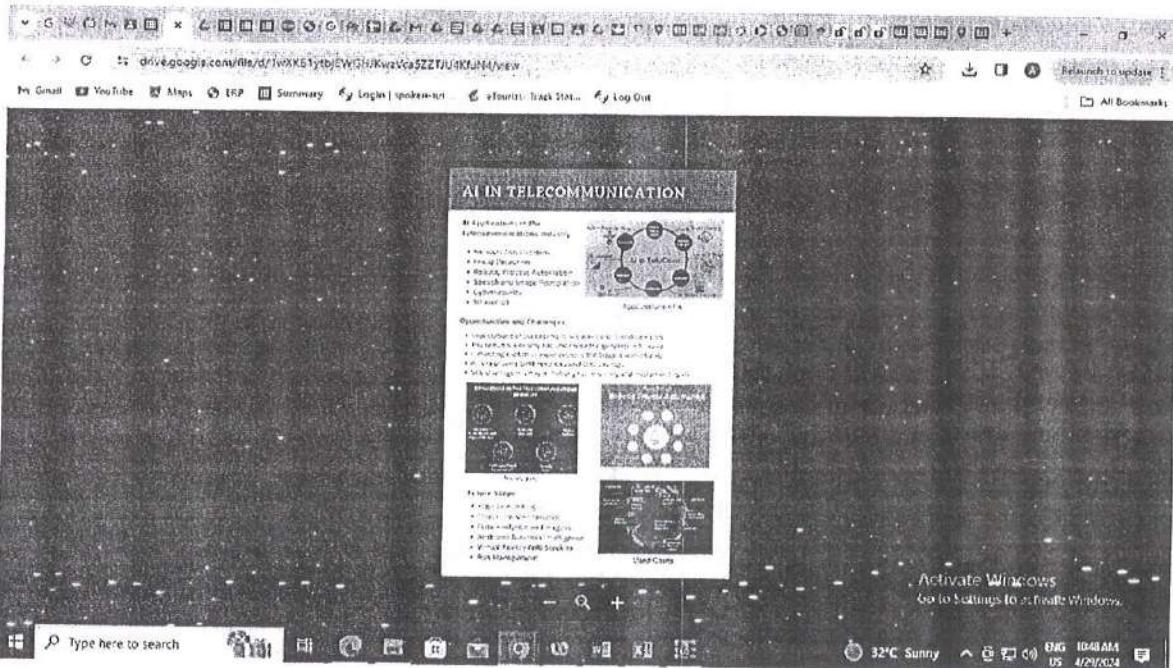
Proof of resources shared:

The screenshot shows a Google Classroom interface. On the left, there is a sidebar with various course links: Home, Calendar, Teaching (with sub-links To review and Mobile Computing 23-24 SEM II), Classwork, People, Marks, and Help. The main area is titled 'Mobile Computing 23-24 SEM II'. It displays a stream of posts from user 'Ashvin K'. The posts include:

- Ashvin K posted a new material: CBS-AI use cases in telecommunication (1 Apr)
- Ashvin K posted a new material: Technical Poster Presentation- AI In Telecom (20 Mar)
- Ashvin K posted a new assignment: Assignment 2 (1 Apr)
- Ashvin K posted a new assignment: Assignment 1 (3 Mar)
- Ashvin K posted 6 new assignments: Lab Manual Mobile Computing (1 Mar, 1 Apr, 1 May, 1 Jun, 1 Jul, 1 Aug)



Proof of resources shared:



Conduction platform: Google Classroom

Assessment tool: Direct

Rubrics for Stump your partner

Performance Criterion (PC)	Excellent (4)	Good (3)	Poor (2)	Unacceptable (1)
Accomplishment of Technical Poster Tasks	Complete in all respects; reflects all requirements	Complete in most respects; reflects most requirements	Incomplete many stages(task),reflects few requirements	Incomplete Technical Poster stages,does not reflect requirements
Operational Demonstration	Operational demonstration shows 100% completion and is on-time.	Operational demonstration with partial functionality.	Operational demonstration with marginal functionality.	No operational demonstration on demo day.
Technical Poster Report Organization and Mechanics	Report is complete with good detail, little/no spelling, grammar, or typography errors.	Report is complete with some detail, spelling, grammar, or typography errors.	Report missing some sections or in improper format; minimal detail; numerous errors.	Report lacking detail or organization or contains excessive errors.
Team Work	Actively contribute, present in all	Moderate contribution,	Little contribution,	No contribution,



	meetings, routinely share useful ideas.	occasionally present during meetings, sometimes share ideas.	rarely present during meetings, rarely share ideas.	not present during meetings, never share ideas.
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Steps followed for effective implementation:

- 1) Student has permitted go through the various AI based telecommunication case study videos available across internet.
- 2) Time Boundary was allotted with team limit of 3 students
- 3) Students need to apply basics of communication and AI logic to provide solution for any problem around them by means of applying the knowledge and the answers, question and submit them as an assignment submission on Google Classroom.

Details for student submission: Assignment on Google Classroom: Activity: Technical Poster presentation activity

Process followed for performance Evaluation:

Rules to be followed:

- Each team will consist of maximum 2 participants.
- Only one poster will be allowed to present per team.
- Names and Institute name should appear on the backside of the poster.
- All lettering and diagrams should be large enough to be read from a minimum of 2 feet.
- The official language for the poster will be English.
- Poster Size: maximum 1m x 1m (soft copy in PDF).
- Advisable to use coral draw

Judging Criteria:

- Content (Selection of Topic) (15 marks)
- Uniqueness of poster (use of new idea, creative approach) (5 marks)
- Its Presentation (10 marks) → Question and Answers (10 marks)
- Overall impact of poster (Poster Format and Appearance) (10 marks)
- Total Marks = 50
- The participants will be given a maximum of three to five minutes to present their poster before the panel.
- All the decisions made by judges and event head will be final.

Student 1	Student 2	Student 3	Title	Marks
BE23252 SARTHAK GUPTA	BE23257 SHIRKE KALPESH CHANDRAKANT	BE23274 ZAHRA JAWEED AMIN	AI IN TELECOMMUNICATION: Network Traffic Forecasting Model LSTM-FSD	15
BE23225 KHAMGAL DHANASHREE GORAKHNATH	BE23226 KHAMGAL NIKITA VITTHAL DHANASHREE GORAKHNATH	BE23234 MANDLIK GAURI PRAVIN	Internet Of Things	18
BE23225 KHAMGAL DHANASHREE GORAKHNATH	BE23226 KHAMGAL NIKITA VITTHAL	BE23234 MANDLIK GAURI PRAVIN	Robotics Process Automation	18
BE23210 CHOUDHARY NARAYAN RAMESHKUMAR	BE23220 JAWALEKAR PARTH SHAILESH MANOJ	BE23263 TEJAS BHAGAT	QRGuardian : Campus Safety	20
BE23204 ARGULWAR AJAY RAVIRAJ	BE23218 GODASE ABHINESH MOHAN	BE23269 WAGH ONKAR SHAHU	Smart Billing and Revenue Assurance Using AI In Telecom	19
BE23243 PATIL DIGVIJAY RAVIRAJ	BE23245 RANE YASH YOGIRAJ	BE23248 RISHAB KAR CHAUDHURI	Securing Connections: AI-Powered Telecommunication Cybersecurity	20
BE23240 NADARGE SAKSHI ANIL BE23254 SATPUTE TEJAS SAMBHANJI	BE23242 PATIL ANUSHREE UMESH		AI in Robotic Process Automation	17
BE23253 SATHE SAYALI KAILAS			AI in Telecommunication	17
BE23249 SAKSHI ULHAS PATIL	BE23253 SATHE SAYALI KAILAS	BE23255 SHREKAR YASH RAVINDRA	USE OF AI IN TELECOMMUNICATION INDUSTRY	18
			USE OF AI IN TELECOMMUNICATION INDUSTRY	20



BE23255 SHEREKAR YASH RAVINDRA			Use of AI in Telecommunication Industry	20
BE23212 DESAI GAURI SANJAY			AI in Telecommunication	20
BE23201 ALTE SHRUTI VILAS	BE23207 BARI SAKSHI SUNIL	BE23244 PATIL VAISHALI UMAKANT	Graph Attention Network	17
BE23211 DAYMA GIRIRAJ MANISH	BE23224 KANAWADE DEEP RAJENDRA	BE23239 MUJAWAR SALMAN BABULAL	AI powered network management in 5G Telecommunications	18
BE23206 BARAVKAR PIYUSH SURESH	BE23241 PARKHE KHUSHI KIRAN CHANDEL	BE23272 YASHSINGH DINESHSINGH	Connected Tomorrow	20
BE23249 SAKSHI ULHAS PATIL			Use of AI in Telecommunication industry	17
BE23208 BHURE RUPESH DATTA	BE23250 SANSKRUTI DIPAKRAO PATOND	BE23262 SURANA SMRUTI SUNIL	AI powered network management	18
BE23268 WAGH OM NILESH			AI POWERED NETWORK MANAGEMENT IN 5G TELECOMMUNICATIONS	17
BE23227 KHOLE DHANANJAY VIVEK	BE23229 KODAG SARATHAK MAHENDRA	BE23273 YUKTA MILIND KABRA	Advancing Telecommunications through AI Integration	17
BE23213 DHAKNE ASHISH VIJAY	BE23256 SHINDE AAKANKSHA BALAJI	BE23265 UMBARKAR YASH RAJIV	AI USING MOBILE COMPUTING IN 5G	19
BE23221 KADAM ATHARV YOGESH	BE23236 MIRKALE TANISHQ RAJKUMAR	BE23246 RATHOD ABHISHEK DILIP	AI	20
BE23231 MAHARAJ SHUBHAM KRISHNAMURARI	BE23238 MRUNMAI KULKARNI	BE23266 VARUN SURESH GUPTA	Use Cases of Artificial Intelligence in Telecommunication	16
BE23230 KUSALE NIKHIL DATTATRAY			Ai power and telecommunication: securing the connection	18
BE23213 DHAKNE ASHISH VIJAY	BE23256 SHINDE AAKANKSHA BALAJI	BE23265 UMBARKAR YASH RAJIV	SMART WHEELCHAIR	17
BE23202 ANKIT RAJ SHARMA	BE23219 HEMANG AMRITLAL JAIN	BE23271 YASH PRADIP JAGTAP	NETWORK MANAGEMENT IN 5G	19
BE23213 DHAKNE ASHISH VIJAY	BE23256 SHINDE AAKANKSHA BALAJI	BE23265 UMBARKAR YASH RAJIV	SMART WHEELCHAIR	16
BE23213 DHAKNE ASHISH VIJAY	BE23256 SHINDE AAKANKSHA BALAJI	BE23265 UMBARKAR YASH RAJIV	AI 5G Communication	20
BE23205 ATHARVA SAGAR CHATUR			AI	15
BE23216 GHATOL AMIT SANJAY			AI	17
BE23237 MISHRA YASH MANOJ			AI in Telecommunication	20
BE23232 MALAVADE MEGHNA NITIN			AI powered Network Management in Telecommunication	17

Feedback analysis of Direct Assessment:

Average Result:

The strategy used was a good success (100%). The students learnt the concept very well and actively participated in the activity.

Reflective critiques:

1. Challenges:

- While completing the submission for the activity, students were supposed to complete it on classroom, it is observed that many students have not participated it because of the tool and resources issues
- Submission is through google classroom with restriction on the video file submission because of size.

2. Changes for the next activity: Next time, this activity can be taken in the session and submission will be taken using Google Form. As specific time limit will be there and encouraging students to show their peer students work for their motivation.

One

Signature of the Course Teacher





Hope Foundation's **International Institute of Information Technology**

P-14, Rajiv Gandhi Info Tech Park, Phase – 1, Hinjawadi, Pune – 411 057

Department of Electronics & Telecommunications

Project Exhibition

Academic Year and Semester: 2023-2024 Semester II

Branch: E&TC

Class: SE

Subject: Project Based Learning

Subject code: 204200

Day and Date: Tuesday, 6th February 2024

Objectives of the activity:

- a) To create awareness about the design and implementation of the project
- b) To provide the opportunity for product demonstrations
- c) To seek clarifications about the product's features and benefits.

The learning outcomes of the activity:

After completion of the activity students will be able to

- a) To understand the product development cycle.
- b) To know the process of transforming an idea into a prototype.
- c) To get motivation for taking quality projects..

No. of Students attended: 52

List of resources shared: Previous academic year project were kept in exhibition.

Conduction platform: Classroom (A302)

Assessment tool: NA

Steps followed for effective implementation:

1. Previous academic year SE PBL project were kept in the exhibition.
2. Discussed the process form idea to product.

Details for student submission: Not Required

Process followed for performance Evaluation: Not Required

Feedback analysis of direct assessment: NA

Average result: NA



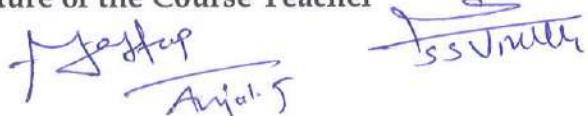
Impact of the innovative practice:

1. The students understood the selection of project idea/ problem statement.
2. The participation was active.
3. It made impact for lifelong use and learning.

Reflective critiques for team assisted individualization:

1. Innovative thinking session and lectures are required.
2. Students approach toward idea to product need motivation and financial support.

Signature of the Course Teacher

A handwritten signature in blue ink, appearing to read "Prof. S. V. Patil".





Hope Foundation's
International Institute of Information Technology

P-14, Rajiv Gandhi Info Tech Park, Phase – 1, Hinjawadi, Pune – 411 057

Department of Electronics & Telecommunications

Encouraging SE students for Intellectual Property Right

Academic Year and Semester: 2023-2024 Semester II

Branch: E&TC

Class: SE

Subject: Project Based Learning

Subject code: 204200

Day and Date: Tuesday, 2nd April 2024

Objectives of the activity:

- This awareness activity would expose the students to various types of IPR which in turn will ignite their intellectual thoughts.
- The Program would be a right platform for motivating them to innovate and further transform their innovative ideas into Intellectual assets.
- The institution also benefits through this IPR awareness by marching ahead in the overall national ranking.

The learning outcomes of the activity:

After completion of the activity students will be able to

- Understand the concept of IPR
- Interpret how IPR can be used to conceptualize their ideas for the benefit of the Society at large
- Create a platform for the institution for creating an IPR knowledge hub.

No. of Students attended: 61

List of resources shared:

- Format of No Objection Certificate from the institute.
- Format of report to be submitted.
- Sample documents required for filling copyright.



Conduction platform: Classroom (A302)

Assessment tool: Direct (Submitted 18 groups project idea for the copyright work)

Steps followed for effective implementation:

1. Explained importance of acquiring IPR.
2. Discussed the effective way of representing idea to be copyrighted.
3. Students completed the task given in the session itself.
4. Faculty coordinator have modified and checked the documents required
5. Submitted 18 ideas in the groups to IPR office.

Details for student submission: (Attached separately answer sheets)

Process followed for performance Evaluation:

Roll No.	Name of Student	Idea title copyrighted (Submitted)
SE23202	ALEX VIRENDRA SAKHA	
SE23205	APAR RIDDHI RAVINDRA	Portable Digital IC Tester
SE23208	BHAMARE NIMISHA NIMBA	
SE23204	ANSARI MOHD NOOR ALAM	
SE23207	BAIRAGI PRANJAL SANTOSH	Color Detecting Car
SE23209	BHANGALE MIHIR HITENDRA	
SE23206	ATHARVA VISHWAS DALVI	
SE23212	BOBADE TANMAY GAJANAN	Geofencing
SE23214	CHASKAR SUIT SIVAJI	
SE23210	BHOR SAYALI SAMPAT	
SE23213	BORSE PRAKRUTI PRAVIN	Solar Tracking System
SE23218	DARKUNDE ADITI D	
SE23211	BIJWE PAURAVI VINOD	
SE23216	CHAVAN ANISHA PRAKASH	Illumination Information Monitor
SE23217	DANAO YASHASWI VINOD	
SE23223	GAWAI APURV MOHAN	
SE23225	ILHE SAHIL KACHESHWAR	Boolean Algebra Calculator
SE23227	JADHAV GAURI PRABHAKAR	
SE23224	GOSAVI VEDANT MANGESH	
SE23226	JADHAV ASMITA KIRAN	SDP
SE23229	JAURKAR NARAYANI MAHESH	
SE23221	DHWANI SANJAY PATEL	
SE23222	GANGURDE VAISHNAVI RAHUL	Motion Sensing Notice Board
SE23220	DHUMANE GEETA AVINASH	
SE23228	JADHAV VISHWAJIT RAVINDRA	
SE23235	KHUSHAL RAVINDRA YADAV	Vehicle Pollution Monitoring
SE23236	KOLHE ARNAV VIJAY	
SE23231	KAHAAN SHAH	
SE23233	KAWLE ANIRUDDH ANANT	E-ReBook
SE23234	KHARAT RITESH VIJAY	
SE23244	MALVADKAR SUMER SHIRISH	
SE23245	MASKE VAISHNAVI RUPSEN	
SE23247	MOHITE PRATHMESH ANIL	Waste Segregation System



SE23238	KULKARNI ATHARV SANTOSH	RPM Counter
SE23239	KULKARNI CHAITANYA S	
SE23242	LEKULE ADITYA PANJAB	3D Hologram
SE23240	KULKARNI SIDDHANT SUNIL	
SE23249	MUTHE ASHWINI KISAN	Pentype Digital Voltmeter
SE23255	RAUT ADITI ANIL	
SE23264	TANISHKA AJAY PAWAR	Snuggle Seats
SE23265	TEJAS PATIL	
SE23258	SHEDGE VAISHNAVI DEEPAK	Vending Machine
SE23261	SOLANKEY KRISHNA MILIND	
SE23262	SURDE SANAYA SHAILESH	Electronics Snake and Ladder
SE23256	SARVESH DAYMA	
SE23257	SHANTANU DHANAJI KADAM	Interface Memory Card with Arduino to Store Data
SE23272	WALOKAR AYUSH NILESH	
SE23260	SHINDE VAIBHAVI RAOSAHEB	Interface Memory Card with Arduino to Store Data
SE23269	VARMA SHRUTI VIJAY	
SE23270	VERMA SHRISTI KUMARI	
SE23266	TEKALE ADESH GOVIND	Interface Memory Card with Arduino to Store Data
SE23268	VARALE SHRUTI YUVRAJ	
SE23271	WADGAONKAR TANVIS	

Feedback analysis of direct assessment: NA

Average result: NA

Impact of the innovative practice:

1. The students understood the importance of IPR.
2. The participation was active.
3. It made impact for lifelong use and learning.

Reflective critiques for team assisted individualization:

1. Innovative thinking session and lectures are required.
2. Students approach toward research and development needs to diverted.



Signature of the Course Teacher





Hope Foundation's
International Institute of Information Technology
P-14, Rajiv Gandhi Info Tech Park, Phase – I, Hinjawadi, Pune – 411 057

Department of Electronics & Telecommunications

Poster Making

Academic Year and Semester: 2023-2024 Semester II

Branch: E&TC

Class: TE

Subject: Cellular Networks

Subject code: 304192

Day and Date: Thursday, 18th April 2024

Objectives of the activity:

- a) To learn and relearn concepts of cellular networks through engaging activity.
- b) To understand concepts and architectures of cellular technologies.
- c) To encourage Self-learning.

The learning outcomes of the activity:

After completion of the activity students will be able to

- a) Understand the fundamentals of the Mobile communication.
- b) Develop conducive environment for learning.
- c) Demonstrate the Self-learning ability of students.

No. of Students attended: 49

List of resources shared: Topic list is attached as separate sheet.

Conduction platform: Classroom (A301)

Assessment tool: Direct (10 marks for every correct answer)

Steps followed for effective implementation:

1. Total 5 Teams of 10 students
2. Detail explanation and presentation is excepted.
3. Time Bound was allotted.

Details for student submission: Took submission of poster in hard form.
(Separate sheet is attached as proof from the link)



Topic allotted:

Roll No.	Name of Student	Topics allotted	Roll No.	Name of Student	Topics allotted
TE23201	SMRUTI RAMCHANDRA AWATE	GSM	TE23247	PRATIK SANTU HALKUNDE	Hata Okumura Model
TE23202	VAIBHAV PURUSHOTTAM BADHE		TE23248	HARSHIT RISHI PANDE	
TE23203	HARSH MUKESHBHAI BHARDWAJ		TE23249	TANMAY SANDESH KENDRE	
TE23204	GOURI SANDEEP BHoyer		TE23250	GANESH SHIVKUMAR KESARKAR	
TE23205	TANVI ANIL CHAVAN		TE23251	RHUTUJA PRASHANT KHANDARE	
TE23206	ATISH ASHOK DESAI		TE23252	SANIKA SANJAY LONKAR	
TE23207	SIDDHIKA SANTOSH GADGIL		TE23253	MANAS YOGESH MAINDE	
TE23208	ISHANT CHHOTUKUMAR GADHAVE		TE23254	RIYA MANISH MANANI	
TE23209	HRISHIKESH GORAKH AUTI		TE23255	RITESH RAJENDRA MANDAVGAD	
TE23210	ADITI DIGAMBAR JATAL		TE23256	MANGESH RAJABHAI GAIKWAD	
TE23211	SOHAM CHANDRASHEKHAR JOSHI		TE23257	JHANVI UDAY OZA	
TE23212	SHRAVANI PRASHANT KAPADNIS		TE23258	HARSHADA SUNIL PANSARE	
TE23213	MANDIRA BABULAL BAGLE		TE23259	DISHANT MOHAN PATIL	
TE23214	DANISH ROHIDAS MANE		TE23260	MANDAR SANTOSHRAO PATIL	
TE23215	RESHMA NAVNATH NAWALE		TE23261	ATHARVA SHASHIKANT PAWAR	
TE23216	NUZHAT ABDUS SALAM INAMDAR		TE23262	SAYYAM RAHUL CHORDIYA	Link Budget Analysis
TE23217	SHRUSHTI VISHWANBAR PAWAR		TE23263	SANIKA SANDESH SHINDE	
TE23218	ASHWINI RAJARAM RASAL		TE23264	SNEHAL RAJENDRA SHINDE	
TE23219	PALLAVI SAMPAT RASAL		TE23265	SWAPNIL UTTAM SHINDE	
TE23220	SAMRUDDHI DHANANJAY BHADANE		TE23266	VISHAKHA SANJEEV SHINDE	
TE23221	ISHITA SRIVASTAVA		TE23267	SIDDHANT YAJUR DHONGDE	
TE23222	SUYASH PARAG KARNAD		TE23268	HARSH SUNIL SONGIRE	
TE23223	SWAPNIL SHANTINATH SATPUTE		TE23269	AADITI SUJAYKUMAR WAYSE	
TE23224	PRATIK SANJAY TARFE		TE23270	YUVRAJ SINGH	
TE23225	DIPAK SANJAY URADE		TE23271	VIDHI DINESH ZAWAR	
TE23226	KANYA RAMCHANDRA UTTEKAR		TE23272	ANIKET BALAJI RATHOD	
TE23227	AKASH ARUN WAGHMARE				
TE23228	ADITYA MADHAV YADAV				
TE23229	ANIKET AMOL BASWADE				
TE23230	NISCHAL RAHUL CHAUDHARI				
TE23231	PRATHMESH ANANT TARKE				
TE23232	KSHITIJ MAHENDRA RAJGUIDE				
TE23233	RUHI HEMANT ARGHODE	LTE			
TE23234	SHUBHAM SURESH ATHANE				
TE23235	ATHARVA SACHIN KHARE				
TE23236	KHUSHI ABHAY BAFANA				
TE23237	YASH MANOJ BANKAR				
TE23238	LIMBNATH VYANKAT BANSODE				
TE23239	ADITYA MAHADEV BIRADAR				
TE23240	TEJAS CHANDRAKANT CHAKOTE				
TE23241	SOHAM PANDURANG CHAVAN				
TE23242	SHUBHAM SHRIKANT DHAGALE				
TE23243	FALGUN HEMANT PATIL				
TE23244	DARSHAN KISHOR GAHIWAD				
TE23245	RAGHAV VEERENDRA GOSAVI				
TE23246	PARAG BHIMRAJ GUNDAL				
		GPRS			



Process followed for performance Evaluation:

The total marks distribution was

1. 10 Marks for poster
2. 10 Marks for presentation

Roll No.	Name of Student	Marks Obtained	Roll No.	Name of Student	Marks Obtained
TE23201	SMRUTI RAMCHANDRA AWATE	18	TE23237	YASH MANOJ BANKAR	17
TE23202	VAIBHAV PURUSHOTTAM BADHE	AB	TE23238	LIMBNATH VYANKAT BANSODE	AB
TE23203	HARSH MUKESHBHAI BHARDWAJ	AB	TE23239	ADITYA MAHADEV BIRADAR	18
TE23204	GOURI SANDEEP BHIOYAR	20	TE23240	TEJAS CHANDRAKANT CHAKOTE	AB
TE23205	TANVI ANIL CHAVAN	AB	TE23241	SOHAM PANDURANG CHAVAN	15
TE23206	ATISH ASHOK DESAI	AB	TE23242	SHUBHAM SHRIKANT DHAGALE	16
TE23207	SIDDHIKA SANTOSH GADGIL	17	TE23243	FALGUN HEMANT PATIL	AB
TE23208	ISHANT CHHOTUKUMAR GADHAVE	16	TE23244	DARSHAN KISHOR GAHIWAD	16
TE23209	HRISHIKESH GORAKH AUTI	AB	TE23245	RAGHAV VEERENDRA GOSAVI	17
TE23210	ADITI DIGAMBAR JATAL	AB	TE23246	PARAG BHIMRAJ GUNDAL	18
TE23211	SOHAM CHANDRASHEKHAR JOSHI	14	TE23247	PRATIK SANTU HALKUNDE	18
TE23212	SHRAVANI PRASHANT KAPADNIS	18	TE23248	HARSHIT RISHI PANDE	AB
TE23213	MANDIRA BABULAL BAGLE	17	TE23249	TANMAY SANDESH KENDRE	18
TE23214	DANISH ROHIDAS MANE	AB	TE23250	GANESH SHIVKUMAR KESARKAR	17
TE23215	RESHMA NAVNATH NAWALE	15	TE23251	RHUTUJA PRASHANT KHANDARE	16
TE23216	NUZHAT ABDUS SALAM INAMDAR	AB	TE23252	SANIKA SANJAY LONKAR	15
TE23217	SHRUSHTI VISHWANBAR PAWAR	14	TE23253	MANAS YOGESH MAINDE	AB
TE23218	ASHWINI RAJARAM RASAL	16	TE23254	RIYA MANISH MANANI	16
TE23219	PALLAVI SAMPAT RASAL	17	TE23255	RITESH RAJENDRA MANDAVGAD	18
TE23220	SAMRUDDHI DHANANJAY BHADANE	19	TE23256	MANGESH RAJABHAU GAIKWAD	AB
TE23221	ISHITA SRIVASTAVA	AB	TE23257	JHANVI UDAY OZA	16
TE23222	SUYASH PARAG KARNAD	16	TE23258	HARSHADA SUNIL PANSARE	AB
TE23223	SWAPNIL SHANTINATH SATPUTE	AB	TE23259	DISHANT MOHAN PATIL	18
TE23224	PRATIK SANJAY TARFE	17	TE23260	MANDAR SANTOSHRAO PATIL	18
TE23225	DIPAK SANJAY URADE	AB	TE23261	ATHARVA SHASHIKANT PAWAR	17
TE23226	KANYA RAMCHANDRA UTTEKAR	14	TE23262	SAYYAM RAHUL CHORDIYA	19
TE23227	AKASH ARUN WAGHMARE	AB	TE23263	SANIKA SANDESH SHINDE	18
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TE23232	KSHITIJ MAHENDRA RAJGUIDE	12	TE23268	HARSH SUNIL SONGIRE	14
TE23233	RUHI HEMANT ARGHODE	AB	TE23269	AADITI SUJAYKUMAR WAYSE	14
TE23234	SHUBHAM SURESH ATHANE	18	TE23270	YUVRAJ SINGH	AB
TE23235	ATHARVA SACHIN KHARE	AB	TE23271	VIDHI DINESH ZAWAR	18
TE23236	KHUSHI ABHAY BAFANA	16	TE23272	ANIKET BALAJI RATHOD	AB



Feedback analysis of direct assessment:

Average result: 17

Impact of the innovative practice:

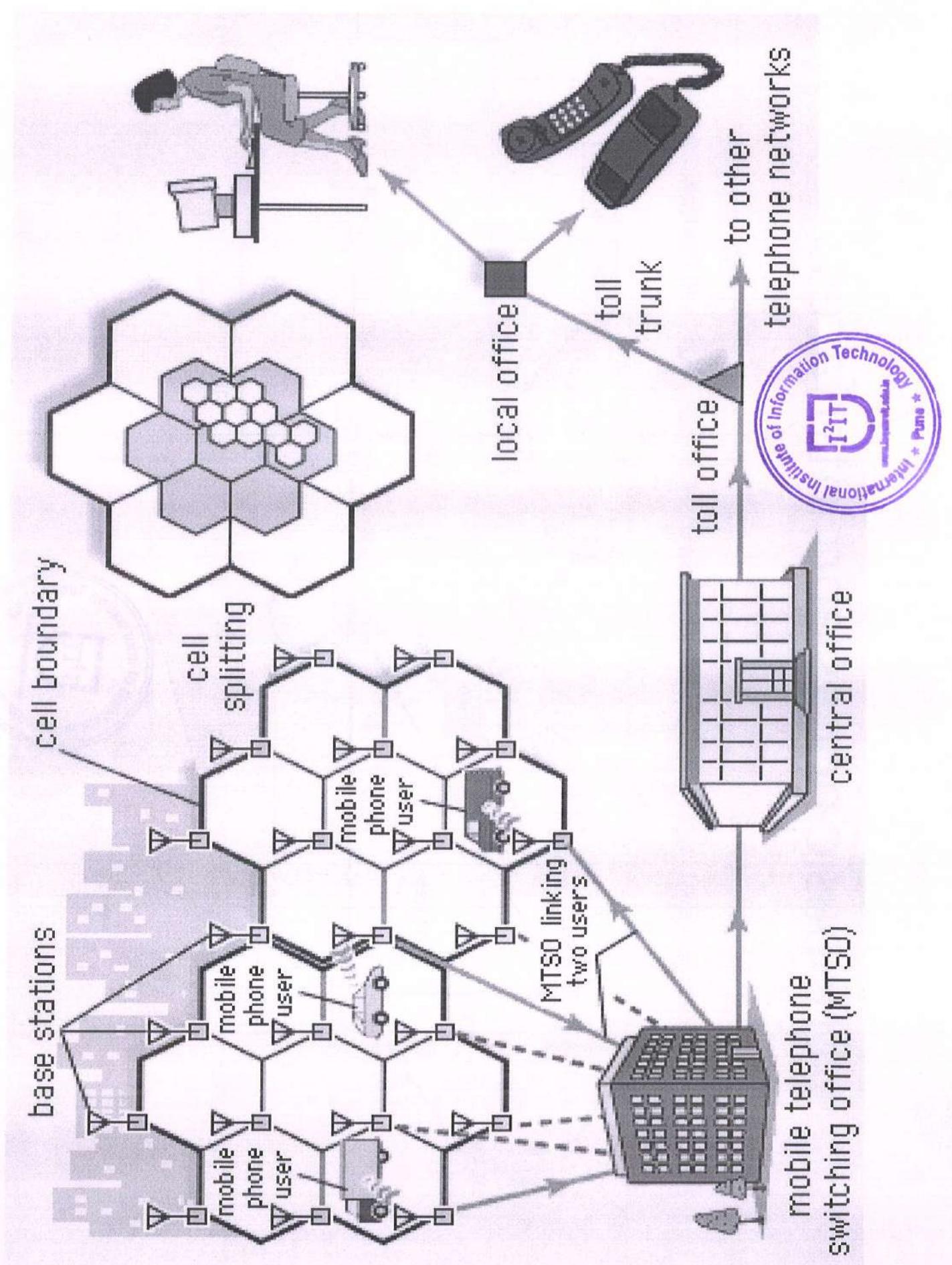
1. The students prepared the key technology of wireless communication/mobile communication in a engaging fun type environment.
2. The participation was active.
3. It made impact for lifelong use and learning.

Reflective critiques for team assisted individualization:

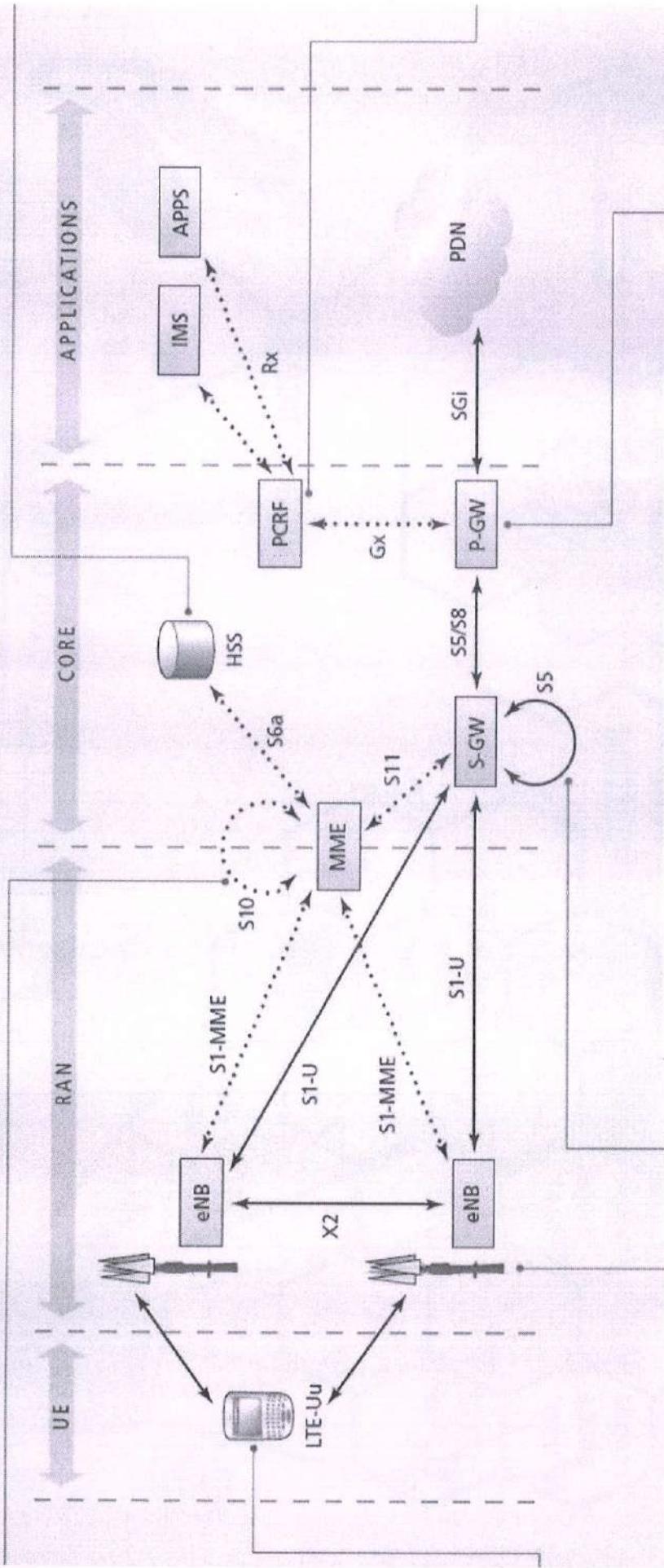
1. The activity needs to be followed by quiz of complete class.
2. Changes for the next activity: Quiz should be planned to get individual student involvement and identify the impact of such teaching methodology.

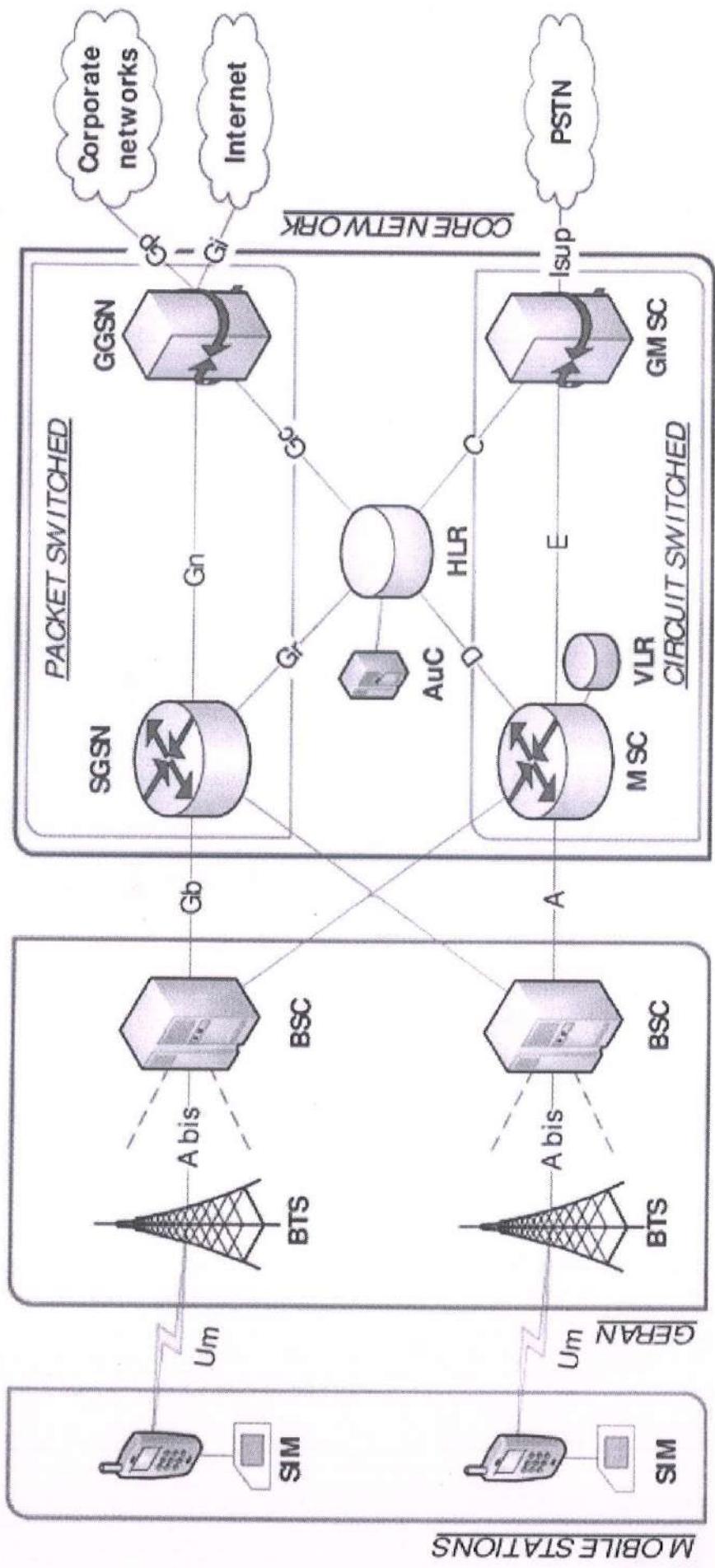

Signature of the Course Teacher





LTE basic nodes and interfaces





**Innovative Practices in Teaching-Learning
Flip Classroom Activity**

Academic Year and Semester: AY 2023-24 Sem II

Branch: E&TC

Class: BE

Subject: Elective-VI: Digital Marketing

Subject code: 404192D

Day and Date: Thursday, 04/04/2024

Objectives of the activity:

- To adapt Innovative teaching learning methodology so as to obtain maximum involvement of every type of learner.
- To understand the concept of Affiliate Marketing.
- To encourage Self-learning.

The learning outcomes of the activity:

After completion of the activity students will be able to:

- Apply the knowledge of Digital Marketing to become an affiliate marketer to promote other brands. [Application]
- Demonstrate their Self-learning skill. [Application]

No. of Students attended: 59

List of resources shared: Video and blog link on the topic "Affiliate Marketing" from Unit VI- Upcoming Trends in Digital Marketing.

The screenshot shows a Google Classroom interface. The title bar says "Digital Marketing BE E&TC 20...". The address bar shows the URL "classroom.google.com/c/NjQ2MDc2MDQz". The sidebar has links for "Classroom", "Digital Marketing BE E&TC 2023-24 Sem II", "Stream", "Classwork", "People", and "Marks". The main area shows a post from "Dr. Varsha Degaonkar Apr (Edited 4 days ago)". The message reads: "Dear students, Please watch the video and visit the blog on the topic 'Affiliate Marketing' from Unit VI- Upcoming Trends in Digital Marketing." Below the message is a "List of contents:" section with links to various topics: "What is affiliate marketing?", "How affiliate marketing works", "3 types of affiliate marketing", "Pros and cons of affiliate marketing", "Why be an affiliate marketer?", "How do affiliate marketers make money?", and "Tips for Affiliate Marketing Success". At the bottom of the post, there are "Video Link" and "Blog Link" with their respective URLs.

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★ Pune ★

The screenshot shows a Google Classroom interface. A message from Dr. Varsha Deshpande dated April 3rd says: "Dear students, You must have watched the video on the topic: Affiliate Marketing". It includes a link to a quiz titled "Quiz- Affiliate Marketing" with the URL <http://forms.gle/ZqGtqWzImGz>. Below the message, there are two class comments from Dr. Varsha Deshpande, one from April 5th and another from April 6th, both labeled "Gentle Reminder".

Conduction platform: Google Classroom

Assessment tool: Direct: Quiz on topic Affiliate Marketing (7 questions of total 10 marks)

Steps followed for effective implementation:

- 1) Students are requested to watch the Video and visit the blog link which is shared on Google Classroom.
- 2) The idea is that the students should get more time in-classroom focusing on achieving Higher Order of Thinking Skills (HOTS). The facilitator will guide the students to practice the contents more effectively by some assessment.
- 3) Quiz is conducted in the next session on the topic to check the understanding of students.
- 4) Later the topic is revised in the session.

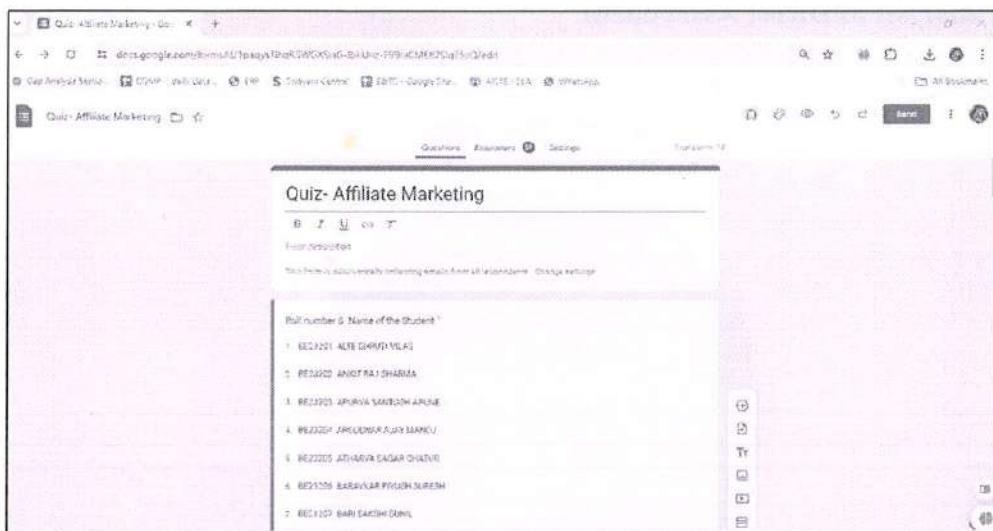
Details for student submission: Quiz Assignment on Google Classroom

The form consists of several questions:

- What is the first step in Affiliate Marketing?**
 - A) High initial costs
 - B) Low initial costs
 - C) Moderate initial costs
 - D) No initial costs
- What is the main goal of Affiliate Marketing?**
 - A) To increase sales
 - B) To increase customer satisfaction
 - C) To increase brand awareness
 - D) To increase profit
- What is the role of an affiliate in Affiliate Marketing?**
 - A) To sell products
 - B) To promote products
 - C) To sell services
 - D) To sell products and services
- How does an affiliate make money?**
 - A) By selling products
 - B) By creating content
 - C) By charging a commission fee to customers
 - D) By providing free services to customers
- Which of the following is NOT a type of affiliate marketing?**
 - A) Performance-based marketing
 - B) Product placement
 - C) Content marketing
 - D) Social media marketing

At the bottom right, it says "Google Forms".





Process followed for performance Evaluation:

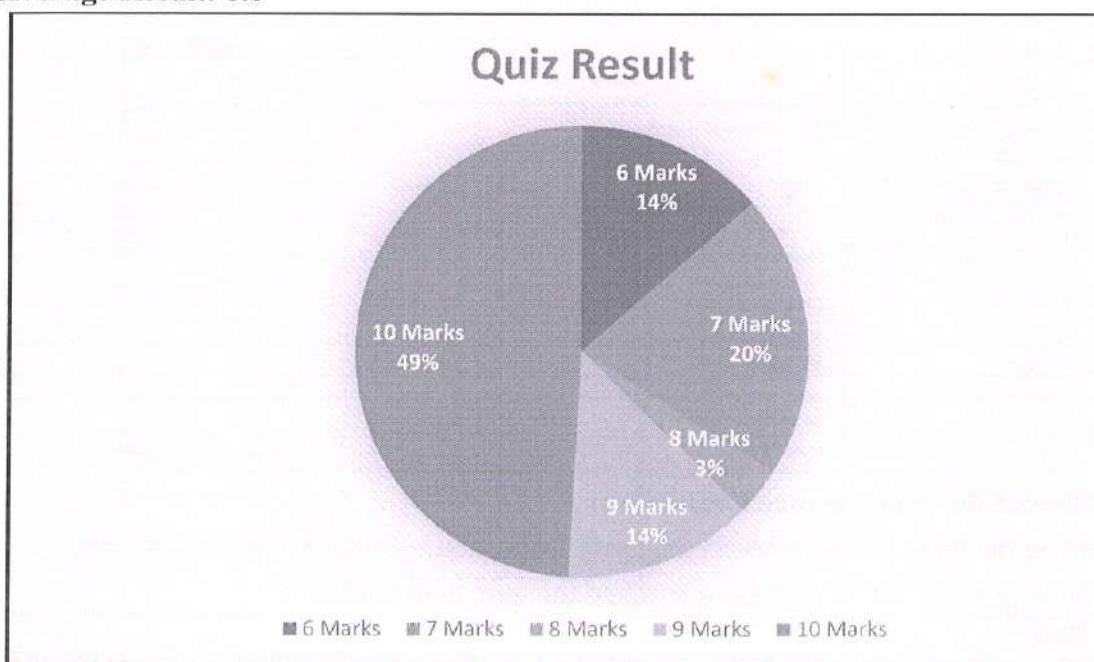
- Quiz on the topic Affiliate Marketing with 7 questions of total 10 marks is floated.
- Following is the list of students attempted the quiz with marks.

Sr. No.	Roll No.	Name of the Student	Marks	Sr. No.	Roll No.	Name of the Student	Marks
1	BE23201	Alte Shruti Vilas	10	31	BE23240	Nadarge Sakshi Anil	7
2	BE23202	Ankit Raj Sharma	7	32	BE23241	Parkhe Khushi Kiran	6
3	BE23203	Apurva Santosh Apune	6	33	BE23242	Patil Anushree Umesh	9
4	BE23205	Atharva Sagar Chatur	7	34	BE23243	Patil Digvijay Raviraj	6
5	BE23206	Baravkar Piyush Suresh	7	35	BE23244	Patil Vaishali Umakant	10
6	BE23207	Bari Sakshi Sunil	10	36	BE23245	Rane Yash Yogiraj	10
7	BE23208	Bhure Rupesh Datta	7	37	BE23246	Rathod Abhishek Dilip	9
8	BE23209	Bhure Vyankat Achyute	6	38	BE23247	Ravi Prakash	10
9	BE23211	Dayma Giriraj Manish	10	39	BE23248	Rishab Kar Chaudhuri	10
10	BE23212	Desai Gauri Sanjay	10	40	BE23249	Sakshi Ulhas Patil	10
11	BE23216	Ghatol Amit Sanjay	7	41	BE23250	Sanskriti D Patond	7
12	BE23217	Giriyal Atharva Jagadish	8	42	BE23251	Sardar Anurag Prabir	10
13	BE23218	Godase Abhinesh Mohan	10	43	BE23252	Sarthak Gupta	10
14	BE23219	Hemang Amritlal Jain	10	44	BE23253	Sathe Sayali Kailas	10
15	BE23221	Kadam Atharv Yogesh	9	45	BE23254	Satpute Tejas Sambhaji	9
16	BE23222	Kadam Bhakti Bhagwan	10	46	BE23255	Sherekar Yash Ravindra	6
17	BE23224	Kanawade Deep Rajendra	9	47	BE23256	Shinde Aakanksha Balaji	10
18	BE23225	Khamgal Dhanashree G	9	48	BE23257	Shirke Kalpesh C	10
19	BE23226	Khamgal Nikita Vitthal	10	49	BE23258	Shivangi Santosh Jadhao	10
20	BE23227	Khole Dhananjay Vivek	9	50	BE23262	Surana Smruti Sunil	10
21	BE23228	Khot Shrishail Sanjay	7	51	BE23264	Thakare Rupesh Vijay	7
22	BE23229	Kodag Sarthak Mahendra	10	52	BE23265	Umbarkar Yash Rajiv	6
23	BE23231	Maharaj Shubham K	10	53	BE23266	Varun Suresh Gupta	6
24	BE23232	Malavade Meghna Nitin	7	54	BE23268	Wagh Om Nilesh	6
25	BE23233	Malegavi Prajwal Ashok	10	55	BE23271	Yash Pradip Jagtap	7
26	BE23234	Mandlik Gauri Pravin	9	56	BE23272	Yashsingh D Chandel	7
27	BE23235	Mane Neha Sambhaji	10	57	BE23273	Yukta Milind Kabra	10
28	BE23237	Mishra Yash Manoj	10	58	BE23274	Zahra Jaweed Amin	10
29	BE23238	Mrunmai Kulkarni	10	59	BE23275	Mali Virendra	8
30	BE23239	Mujawar Salman Babulal	10				



Feedback analysis of Direct Assessment:

Average Result: 8.6



The strategy used was a good success. The students learnt the concept very well and actively participated in the activity.

Reflective critiques:

1. Challenges: It is observed that many students have not watched the video even though the reminder was given.
2. Steps to be taken to avoid the problems: To avoid these challenges, next time students will be encouraged by announcing the prizes for this type of activity.
3. Changes for the next activity: Next time, this activity will have prizes for correct submission of answers for first 10 timely responses.

Dr. Varsha Degaonkar

Signature of the Course Teacher





**Hope Foundation's
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DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION**

**Innovative Practices in Teaching-Learning Activity
Filp Classroom Activity**

Academic Year and Semester: AY 2023-24 SEM II

Branch: E&TC

Class: SE

Subject: Control System

Subject code: 204192

Day and Date: Friday, 19/04/2024

Objectives of the activity:

- a) To adapt Innovative teaching learning methodology so as to obtain maximum involvement of every type of student
- b) To encourage self -learning.
- c) To understand the basic concept of Control System

The learning outcomes of the activity :

After completion of the activity students will be able to :

- a) Apply the knowledge of control system in real time application

No. of Students attended : 72

List of resources shared: Video on topics Control System

SE Control System (2019 Pat)
SEM-II

Instructions Student work

Innovative teaching practice activity

Suvarna Hande • 19 Apr

100 points

<https://www.youtube.com/watch?v=oXMdDsud5vg>

https://www.youtube.com/watch?v=Tn4nPh_N2A

Note : Watch this video and solve quiz
<https://forms.gle/9ZqMw2MSiBPhn5qW7>

Class comments

Add class comment...





Conduction platform : Google Classroom

Assessment tool : Quiz on topic Control System

<https://forms.gle/9ZqMw2MSiBPhn5qW7>

Steps followed for effective implementation:

- 1) Students are requested to watch the video which is on Google classroom
- 2) Quiz is on the shared session.

Details For student submission (Quiz)

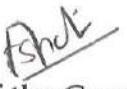
Roll No.	Name of Student	Marks	Roll No.	Name of Student	Marks
SE23201	ADHAV YASH PRAVIN	5	SE23237	KOLI GIRISH BAPURAO	7
SE23202	ALEX VIRENDRA SAKHA	15	SE23238	KULKARNI ATHARV SANTOSH	8
SE23203	AMBEKAR PARTH RAVINDRA	12	SE23239	KULKARNI CHAITANYA S	8
SE23204	ANSARI MOHD NOOR ALAM	15	SE23240	KULKARNI SIDDHANT SUNIL	9
SE23205	APAR RIDDHII RAVINDRA	10	SE23241	LAKUNDE NAGA HARSHITHA	10
SE23206	ATHARVA VISHWAS DALVI	12	SE23242	LEKULE ADITYA PANJAB	9
SE23207	BAIRAGI PRANJAL SANTOSH	8	SE23243	MAHALE SHRAVANI VIKAS	9
SE23208	BHAMARE NIMISHA NIMBA	9	SE23244	MALVADKAR SUMER SHIRISH	8
SE23209	BHANGALE MIHIR HITENDRA	9	SE23245	MASKE VAISHNAVI RUPSEN	9
SE23210	BHOR SAYALI SAMPAT	8	SE23246	MEHAK KOUL	8
SE23211	BIJWE PAURAVI VINOD	8	SE23247	MOHITE PRATHAMESH ANIL	8
SE23212	BOBADE TANMAY GAJANAN	15	SE23249	MUTHE ASHWINI KISAN	12
SE23213	BORSE PRAKRUTI PRAVIN	15	SE23250	NAGFASE ISHNA RAVI	13
SE23214	CHASKAR SUMIT SHIVAJI	10	SE23251	PATIL DIKSHA GOPAL	11
SE23215	CHAUDHARI AMEYA SATISH	15	SE23252	PATIL RUSHIKESH RAVINDRA	12
SE23216	CHAVAN ANISHA PRAKASH	15	SE23253	PURANIK SHREYA TUSHAR	15
SE23217	DANAO YASHASWI VINOD	6	SE23254	RAMYASHREE S	15
SE23218	DARKUNDE ADITI D		SE23255	RAUT ADITI ANIL	15



SE23219	DEOTARE TUSHAR RAJU	10	SE23256	SARVESH DAYMA	10
SE23220	DHUMANE GEETA AVINASH	12	SE23257	SHANTANU DHANJI KADAM	9
SE23221	DHWANI SANJAY PATEL	14	SE23258	SHEDGE VAISHNAVI DEEPAK	11
SE23222	GANGURDE VAISHNAVI RAHUL	15	SE23259	SHINDE SUPRIYA SANTOSH	12
SE23223	GAWAI APURV MOHAN	10	SE23260	SHINDE VAIBHAVI RAOSAHEB	15
SE23224	GOSAVI VEDANT MANGESH	12	SE23261	SOLANKEY KRISHNA MILIND	11
SE23225	ILHE SAHIL KACHESHWAR	15	SE23262	SURDE SANAYA SHAILESH	12
SE23226	JADHAV ASMITA KIRAN	15	SE23263	SURYAWANSHI SHRUTI T	12
SE23227	JADHAV GAURI PRABHAKAR	13	SE23264	TANISHKA AJAY PAWAR	13
SE23228	JADHAV VISHWAJIT RAVINDRA	12	SE23265	TEJAS PATIL	15
SE23229	JAURKAR NARAYANI MAHESH	15	SE23266	TEKALE ADESH GOVIND	12
SE23230	KADAM SHRUTI RAVINDRA	10	SE23267	TOLKAR VEDANT GOVIND	11
SE23231	KAHAAN SHAH	6	SE23268	VARALE SHRUTI YUVRAJ	12
SE23232	KARDILE SHITAL HARIDAS	11	SE23269	VARMA SHRUTI VIJAY	12
SE23233	KAWLE ANIRUDDH ANANT	12	SE23270	VERMA SHRISTI KUMARI	12
SE23234	KHARAT RITESH VIJAY	12	SE23271	WADGAONKAR TANVIS	13
SE23235	KHUSHAL RAVINDRA YADAV	15	SE23272	WALOKAR AYUSH NILESH	10
SE23236	KOLHE ARNAV VIJAY	11			

Impact of the innovative practice:

- 1) Students acquired the concept very easily.
- 2) Almost All student has solved questioner correctly.


Signature of the Course Teacher





**Hope Foundation's
International Institute of Information Technology, Pune**
DEPARTMENT OF ELECTRONICS AND TELECOMMUNICATION

**Innovative Practices in Teaching-Learning
Flip Classroom Activity**

Academic Year and Semester: AY 2023-24 Sem I

Branch: E&TC

Class: SE

Subject: Data Structures

Subject code: 204184

Day and Date: Friday, 6/10/2023

Objectives of the activity:

- To adapt Innovative teaching learning methodology so as to obtain maximum involvement of every type of learner.
- To understand the concept of Graph Traversal-BFS and DFS.
- To encourage Self-learning.
- To achieve the “Higher Order Thinking Skills” in effective Teaching Learning Process

The learning outcomes of the activity:

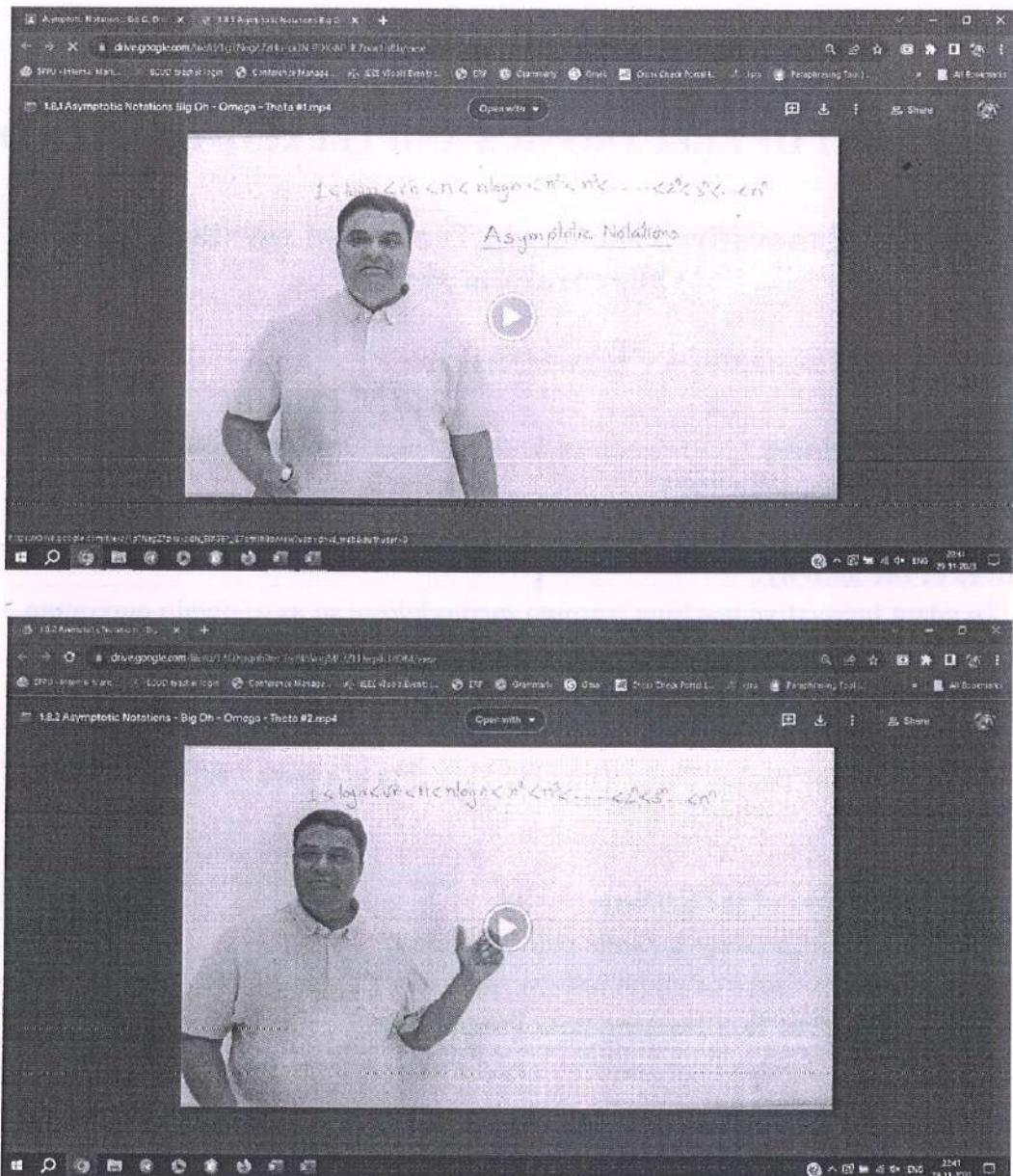
After completion of the activity students will be able to:

- Apply the knowledge of graph in traversal using BFS and DFS. [Application]
- Demonstrate their Self-learning skill. [Application]

No. of Students attended: 72

List of resources shared: Video on topic Graph Traversals-BFS and DFS

A screenshot of a Google Classroom interface. The top navigation bar shows the URL as classroom.google.com. Below the bar, the sidebar indicates the user is in the 'Classroom' section, specifically 'Data Structures - SE E&TC AY 2023-24 Sem I'. The main content area shows a video thumbnail with the title 'Asymptotic Notations: Big O, Omega, Theta'. Below the video, a post from 'Dr. Versha Degaonker' is visible, stating 'posted a new material: Watch the video for- Asymptotic Notations...'. The video has two preview images: one labeled '1.8.2 Asymptotic Notatio...' and another labeled '1.8.1 Asymptotic Notation...'. At the bottom of the video player, there is a button for 'Add class comment...'. On the right side of the screen, there is a circular purple stamp with the text 'International Institute of Information Technology' and 'www.iisquareit.edu.in * Pune *'. The bottom of the screen shows the Windows taskbar with various icons and the date '29-11-2023'.



Conduction platform: Google Classroom

Assessment tool: Direct: Quiz on topic Graph Traversals-BFS and DFS (5 questions of 2 marks each)

Steps followed for effective implementation:

- 1) Students are requested to watch the Video which is posted on Google Classroom.
- 2) The idea is that the students should get more time in-classroom focusing on achieving Higher Order of Thinking Skills (HOTS). The teacher will guide the students to practice the contents more effectively by some assessment.
- 3) Quiz is conducted in the next session on the topic to check the understanding of students.
- 4) Later the topic is revised in the session.

Details for student submission: Quiz Assignment on Google Classroom

Quiz on Graph Traversals-Breadth First Search (BFS) and Depth First Search (DFS)

Dear students,

After watching the video 'Graph Traversals - BFS & DFS - Breadth First Search and Depth First Search', please complete this quiz.

varshad@isquareit.com Switch accounts 

* Indicates required question

Overall * 

Record varshad@isquareit.com as the email to be included with my response

Roll Number & Name of the Student *

The Data structure used in standard implementation of Breadth First Search * 2 points
Is?

a) Stack
 b) Queue
 c) Linked List
 d) Tree

Depth First Search is equivalent to which of the traversal in the Binary Trees? * 2 points

a) Pre-order Traversal
 b) Post-order Traversal
 c) Level-order Traversal
 d) In-order Traversal

A person wants to visit some places. He starts from a vertex and then wants to visit every vertex till it finishes from one vertex, backtracks and then explores other vertex from same vertex. What algorithm he should use? * 2 points

a) Depth First Search
 b) Breadth First Search
 c) Tim's algorithm
 d) Kruskal's Algorithm

In Depth First Search, how many times a node is visited? * 2 points

a) Once
 b) Twice
 c) Equivalent to number of Indegree of the node
 d) Three

Traversal of a graph is different from tree because * 2 points

a) There can be a loop in graph so we must maintain a visited flag for every vertex
 b) BFS of a graph uses stack, but inorder traversal of a tree is recursive
 c) BFS of a graph uses queue, but a time efficient BFS of a tree is recursive.
 d) All of the above



Process followed for performance Evaluation:

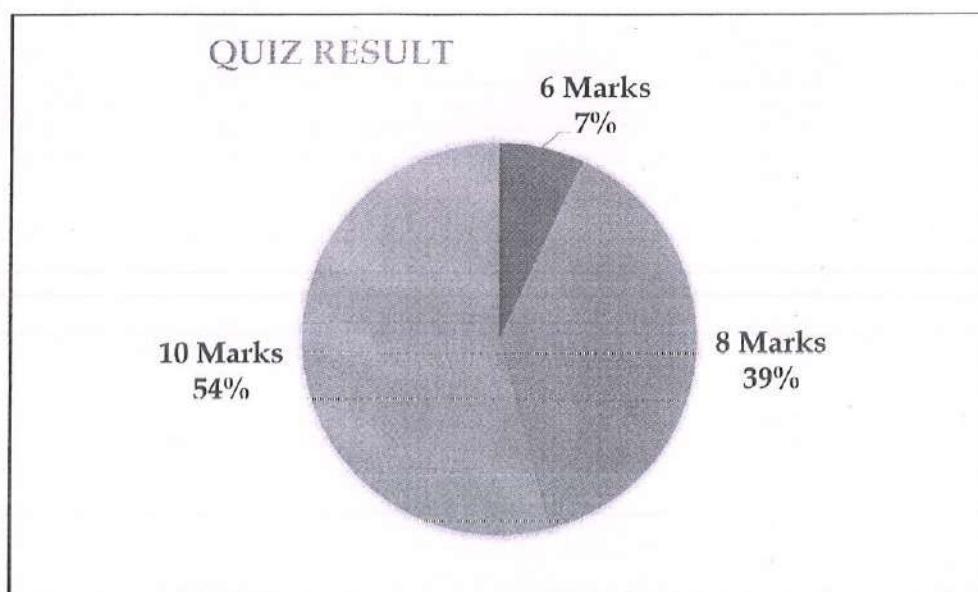
- Quiz on the topic Graph Traversals, BFS and DFS with 5 questions is floated.
- Each question in quiz carried 2 marks.
- Following is the list of students attempted the quiz with marks.

Roll No.	Name of the Student	Marks	Roll No.	Name of the Student	Marks
SE23101	YASH PRAVIN ADHAV	8	SE23139	HARSHITHA LAKUNDE	8
SE23102	ALEX VIRENDRA SAKHA	8	SE23140	ADITYA PANJAB LEKULE	10
SE23103	PARTH RAVINDRA AMBEKAR	10	SE23141	SHRAVANI VIKAS MAHALE	8
SE23104	MOHD NOORALAM ANSARI	10	SE23142	SUMER SHIRISH MALVADKAR	8
SE23105	RIDDHI RAVINDRA APAR	10	SE23143	MEHAK KOUL	10
SE23106	SHRUTI RAVINDRA KADAM	8	SE23144	PRATHAMESH ANIL MOHITE	6
SE23107	ATHARVA VISHWAS DALVI	8	SE23145	ISHNA RAVI NAGFASE	6
SE23108	PRANJAL SANTOSH BAIRAGI	8	SE23147	DIKSHA GOPAL PATIL	10
SE23109	NIMISHA NIMBA BHAMARE	8	SE23148	RUSHIKESH RAVINDRA PATIL	8
SE23110	SAYALI SAMPAT BHOR	10	SE23149	SHREYA TUSHAR PURANIK	8
SE23112	PAURAVI VINOD BIJWE	10	SE23150	RAMYASHREE S	10
SE23113	TANMAY GAJANAN BOBADE	10	SE23151	ADITI ANIL RAUT	10
SE23114	PRAKRUTI PRAVIN BORSE	8	SE23153	SARVESH DAYMA	10
SE23115	SUMIT SHIVAJI CHASKAR	8	SE23154	SHANTANU DHANAJI KADAM	10
SE23116	AMEYA SATISH CHAUDHARI	10	SE23155	VAISHNAVI DEEPAK SHEDGE	10
SE23117	YASHASWI VINOD DANAO	10	SE23156	VAIBHAVI RAOSAHEB SHINDE	8
SE23118	ADITI D DARKUNDE	8	SE23158	KRISHNA MILIND SOLANKEY	10
SE23119	TUSHAR RAJU DEOTARE	8	SE23159	SANAYA SHAILESH SURDE	8
SE23120	GEETA AVINASH DHUMANE	10	SE23160	TANISHKA AJAY PAWAR	10
SE23121	DHWANI SANJAY PATEL	8	SE23161	TEJAS GAJANAN PATIL	8
SE23122	VAISHNAVI RAHUL GANGURDE	10	SE23163	VEDANT GOVIND TOLKAR	8
SE23123	APURV MOHAN GAWAI	8	SE23164	SHRUTI VIJAY VARMA	8
SE23124	VEDANT MANGESH GOSAVI	10	SE23165	SHRISTI KUMARI VERMA	6
SE23126	SAHIL KACHESHWAR ILHE	10	SE23166	TANVI SUDHIR WADGAONKAR	10
SE23127	ASMITA KIRAN JADHAV	10	SE23167	AYUSH NILESH WALOKAR	6
SE23128	VISHWAJIT RAVINDRA JADHAV	10	SE23168	ADESH GOVIND TEKALE	10
SE23129	NARAYANI MAHESH JAURKAR	10	SE23169	ANISHA PRAKASH CHAVAN	8
SE23130	KAHAAN SHAH	10	SE23170	ASHWINI KISAN MUTHE	10
SE23131	ANIRUDDH ANANT KAWLE	10	SE23171	BHOOMIK ATUL MONANI	8
SE23132	RITESH VIJAY KHARAT	10	SE23172	GAURI PRABHAKAR JADHAV	10
SE23133	KHUSHAL RAVINDRA YADAV	10	SE23173	SHITAL HARIDAS KARDILE	10
SE23134	ARNAV VIJAY KOLHE	6	SE23174	SHRUTI TANAJI SURYAWANSHI	10
SE23135	GIRISH BAPURAO KOLI	10	SE23175	SHRUTI YUVRAJ VARALE	8
SE23136	ATHARV SANTOSH KULKARNI	10	SE23176	SUPRIYA SANTOSH SHINDE	10
SE23137	CHAITANYA S KULKARNI	10	SE23177	VAISHNAVI RUPSEN MASKE	10
SE23138	SIDDHANT SUNIL KULKARNI	8	SE23178	MIHIR HITENDRA BHANGALE	8



Feedback analysis of Direct Assessment:

Average Result: 8.9



The strategy used was a good success. The students learnt the concept very well and actively participated in the activity.

Reflective critiques:

1. Challenges: It is observed that many students have not watched the video even though the reminder was given. Also, it is observed that many students have copied answers from others students.
2. Steps to be taken to avoid the problems: To avoid these challenges, next time students will be encouraged by announcing the prizes for this type of activity.
3. Changes for the next activity: Next time, this activity will have prizes for correct submission of answers for first 10 timely responses.

Dr. Varsha Degaonkar

Signature of the Course Teacher



Quiz on Graph Traversals-Breadth First Search (BFS) and Depth First Search (DFS)

Dear students,

After watching the video "Graph Traversals - BFS & DFS - Breadth First Search and Depth First Search", please complete this quiz.

* indicates required question.

1. Email *

- SE23101 ADHAV YASH PRAVIN
 SE23102 ALEX VIRENTRA SAKHA
 SE23103 AMBEKAR PARTH RAVINDRA
 SE23104 ANSARI MOHD NOOR ALAM MOHAMMED
 SE23105 APRIL FIDHI RAVINDRA
 SE23106 SHRUTI RAVINDRA KALAM
 SE23107 ATHARVA VISHWAS DALVI
 SE23108 BAIRAGI PRANJAL SANTOSH
 SE23109 BHAMARE NIMISHA NIVABA
 SE23110 BHOR SAYALI SAMPAT
 SE23112 BIJWE PAURAVI VINOD
 SE23113 BOBADE TANMAY GAJANAN
 SE23114 BORSE PRAKRUTI PRAVIN
 SE23115 CHASKAR SUMIT SHIVAJI
 SE23116 CHAUDHARI AMEYA SATISH
 SE23117 DHAO YASH ASWIN VINOD
 SE23118 DARKUNDE ADITI DNYANESHWAR
 SE23119 DEOTARE TUSHAR RAJU
 SE23120 DHUIMANE GEETA AVINASH
 SE23121 DHWANI SANJAY PATEL
 SE23122 GANGURDE VAISHNAVI RAHUL
 SE23123 GAWAI APURV MOHAN
 SE23124 GOSAVI VEDANT MANGESH
 SE23126 ILHE SAHIL KACHESHWAR
 SE23127 JADHAV ASMITA KIRAN
 SE23128 JADHAV VISHWAJIT RAVINDRA
 SE23129 JAURKAR NARAYANI MAHESHI
 SE23130 KAHAAN SHAH
 SE23131 KAWLE ANIRUDH ANANT
 SE23132 KHARAT RITESH VIJAY
 SE23133 KHUSHAL RAVINDRA VADAV
 SE23134 KOLHE ARNAV VIJAY
 SE23135 KOLLI GIRISH BAIPURAQ
 SE23136 KULKARNI ATHARV SANTOSH
 SE23137 KULKARNI CHAITANYA SHRIDHAR
 SE23138 KULKARNI SIDDHANT SUNIL
 SE23139 LAKUNDE NAGA HARSHITHA L
 SE23140 LEKULE ADITYA PANNJAB
 SE23141 MAHALE SHRAVANI VIKAS
 SE23142 MALVADKAR SUMER S-HRISH

2. Roll Number & Name of the student *

Mark only one oval.



- SE23143 MEHAK KOUL
 SE23144 MOHITE PRATHAMESH ANIL
 SE23145 NAGFASE ISHNA RAVI
 SE23147 PATIL DIKSHA GOPAL
 SE23148 PATIL RUSHIKESH RAVINDRA
 SE23149 PURANIK SHREYA TUSHAR
 SE23150 RAMYASHREE S
 SE23151 RAUT ADITI ANIL
 SE23153 SARVESH DAYMA
 SE23154 SHANTANU DHANAJI KADAM
 SE23155 SHEDGE VAISHNAVII DEEPAK
 SE23156 SHINDE VAIBHAV RAOSAHEB
 SE23158 SOLANKI KRISHNA MILIND
 SE23159 SURDE SANAYA SHAILESH
 SE23160 TANISHKA AJAY PAWAR
 SE23161 TEJAS PATIL
 SE23163 TOLKAR VEDANT GOVIND
 SE23164 YARMA SHRUTI VIJAY
 SE23165 VERMA SHRISTI KUMARI
 SE23166 WADGAONKAR TANVI SUDHIR
 SE23167 WALOKAR AYUSH NILESH
 SE23168 ADESH GOVIND TEKALE
 SE23169 ANISHA PRAKASH CHAVAN
 SE23170 ASHWINI KISAN MUTHE
 SE23171 BHoomik ATUL MONANI
 SE23172 GAURI PRABHAKAR JADHAV
 SE23173 SHITAL HARIDAS KARDILLE
 SE23174 SHRUTI TANAJI SURYAWANSHI
 SE23175 SHRUTI YUVRAJ VARALE
 SE23176 SUPRIYA SANTOSH SHinde
 SE23177 VAISHNAVII RUPSEN MASKE
 SE23178 MIHIR HITENDRA BHANGALE

3. The Data structure used in standard implementation of Breadth First Search is? *

- Mark only one oval.
 a) Stack
 b) Queue
 c) Linked List
 d) Tree

2 points

3. The Data structure used in standard implementation of Breadth First Search is? *

2 points

4. Depth First Search is equivalent to which of the traversal in the Binary Trees? *

- Mark only one oval.
 a) Pre-order Traversal
 b) Post-order Traversal
 c) Level-order Traversal
 d) In-order Traversal

5. A person wants to visit some places. He starts from a vertex and then wants to visit every vertex till it finishes from one vertex, backtracks and then explores other vertex from same vertex. What algorithm he should use? *

- Mark only one oval.
 a) Depth First Search
 b) Breadth First Search
 c) Trim's algorithm
 d) Kruskal's Algorithm

6. In Depth First Search, how many times a node is visited? *

- Mark only one oval.
 a) Once
 b) Twice
 c) Equivalent to number of indegree of the node
 d) Thrice

7. Traversal of a graph is different from tree because? *

- Mark only one oval.
 a) There can be a loop in graph so we must maintain a visited flag for every vertex
 b) DFS of a graph uses stack, but inorder traversal of a tree is recursive
 c) BFS of a graph uses queue, but a time efficient BFS of a tree is recursive.
 d) All of the above



Criss-Cross Puzzle Activity

Academic Year and Semester: 2023-2024 Semester I

Branch: E&TC

Class: BE

Subject: Data Mining

Subject code: 404105A

Day and Date: Saturday, 14th October 2023

Objectives of the activity:

- a) To identify important key words in data mining.
- b) To revise data mining concepts in self paced learning method.
- c) To create interest in students by taking fun type teaching and learning activities.

The learning outcomes of the activity:

After completion of the activity students will be able to

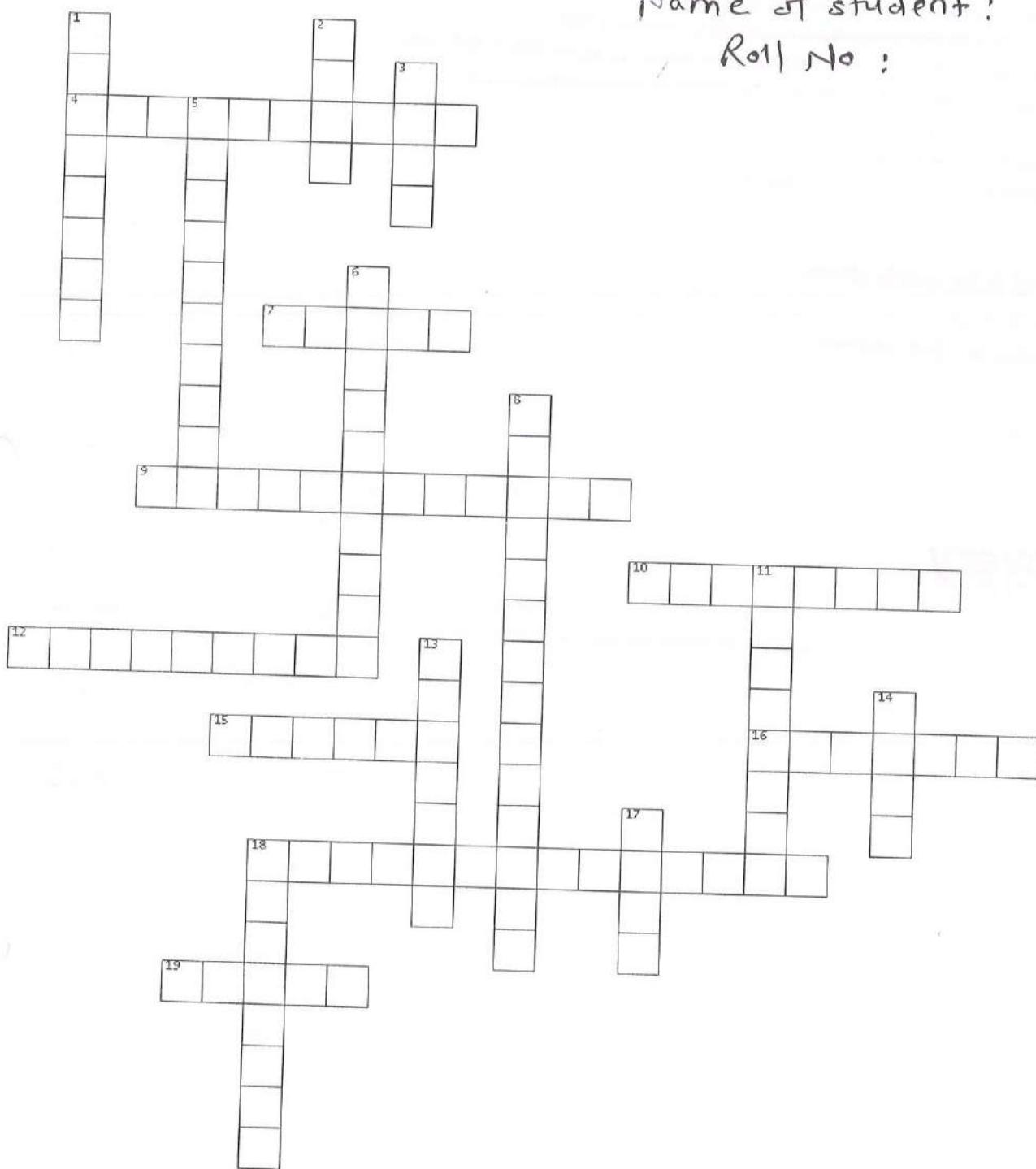
- a) Trace and recall common and popular data mining keyword.
- b) Demonstrate self learning ability.

No. of Students attended: 77

List of resources shared:



Data Mining



ACROSS

4. gathers data from multiple, heterogeneous, and external sources.
7. Multidimensional OLAP
9. finding abstracted patterns (or structures) in the unlabeled data
10. data about data.
12. to remove noise from the data.
15. popular clustering algorithm used for data analysis and pattern recognition
16. data object that deviates significantly from the rest of the data objects
18. reduces the number of random variables
19. algorithm and program for comparing primary biological sequence information

Name of student :
Roll No :



DOWN

- DOWN**

 1. routines attempt to fill in missing values,
 2. online transaction processing
 3. sorts, summarizes, consolidates, computes views, checks integrity, and builds indices and partitions.
 5. process of fitting a curve or a straight line on various data points
 6. process of making a group of abstract objects into classes of similar objects
 8. transforms numeric data by mapping values to interval or concept labels
 11. statistical classification meta-algorithm formulated by Yoav Freund and Robert Schapire
 13. data pre-processing method used to minimize the effects of small observation errors
 14. Online analytical processing
 17. Classification and Regression Trees
 18. data to be modeled and viewed in multiple dimensions.

Use the clues to fill in the words above.

Words can go across or down.

Letters are shared when the words intersect.

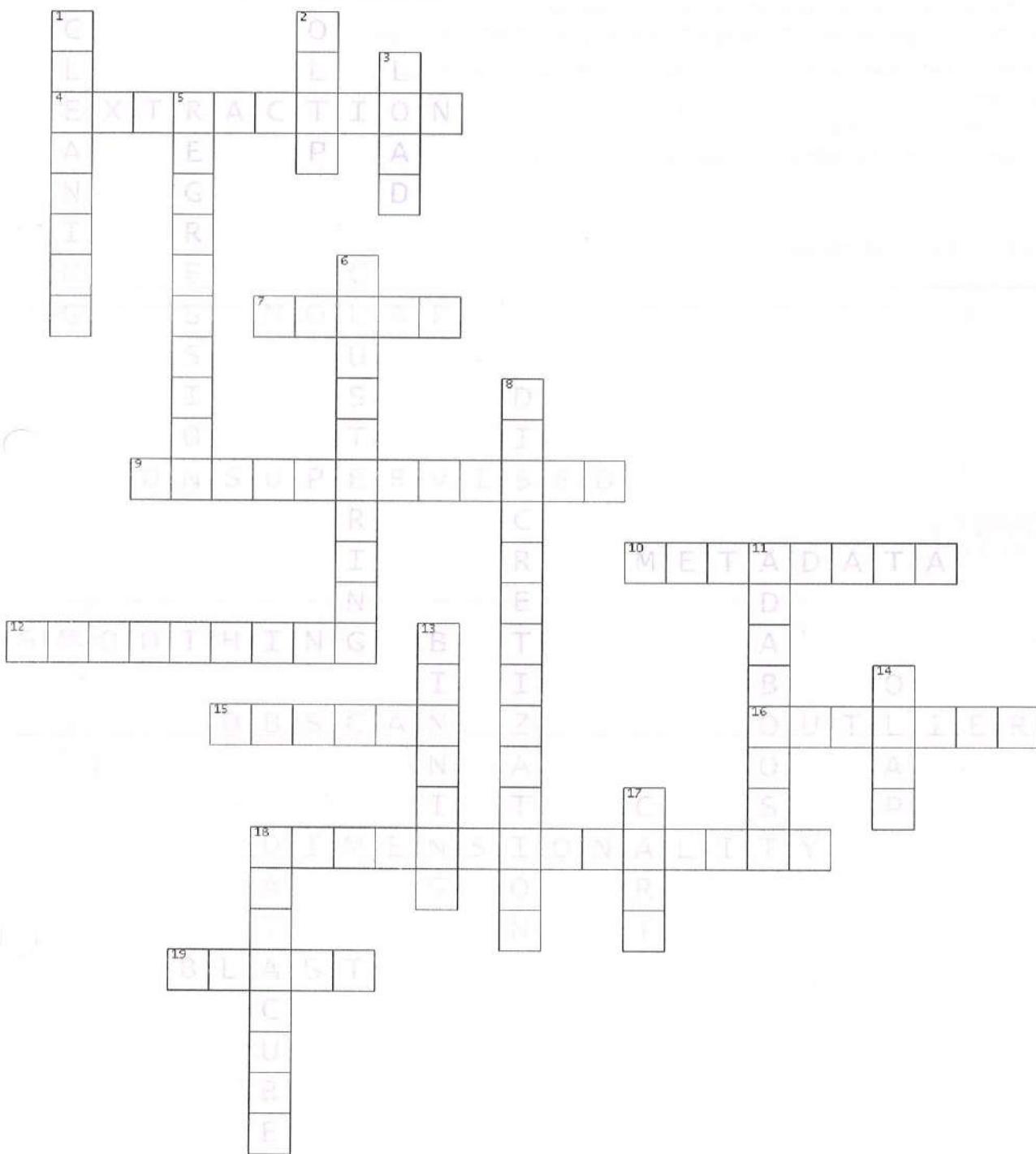
20 of 20 words placed.



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Data Mining (Answer)



ACROSS

4. gathers data from multiple, heterogeneous, and external sources.
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20 of 20 words placed.



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ANKIT RAJ SHARMA

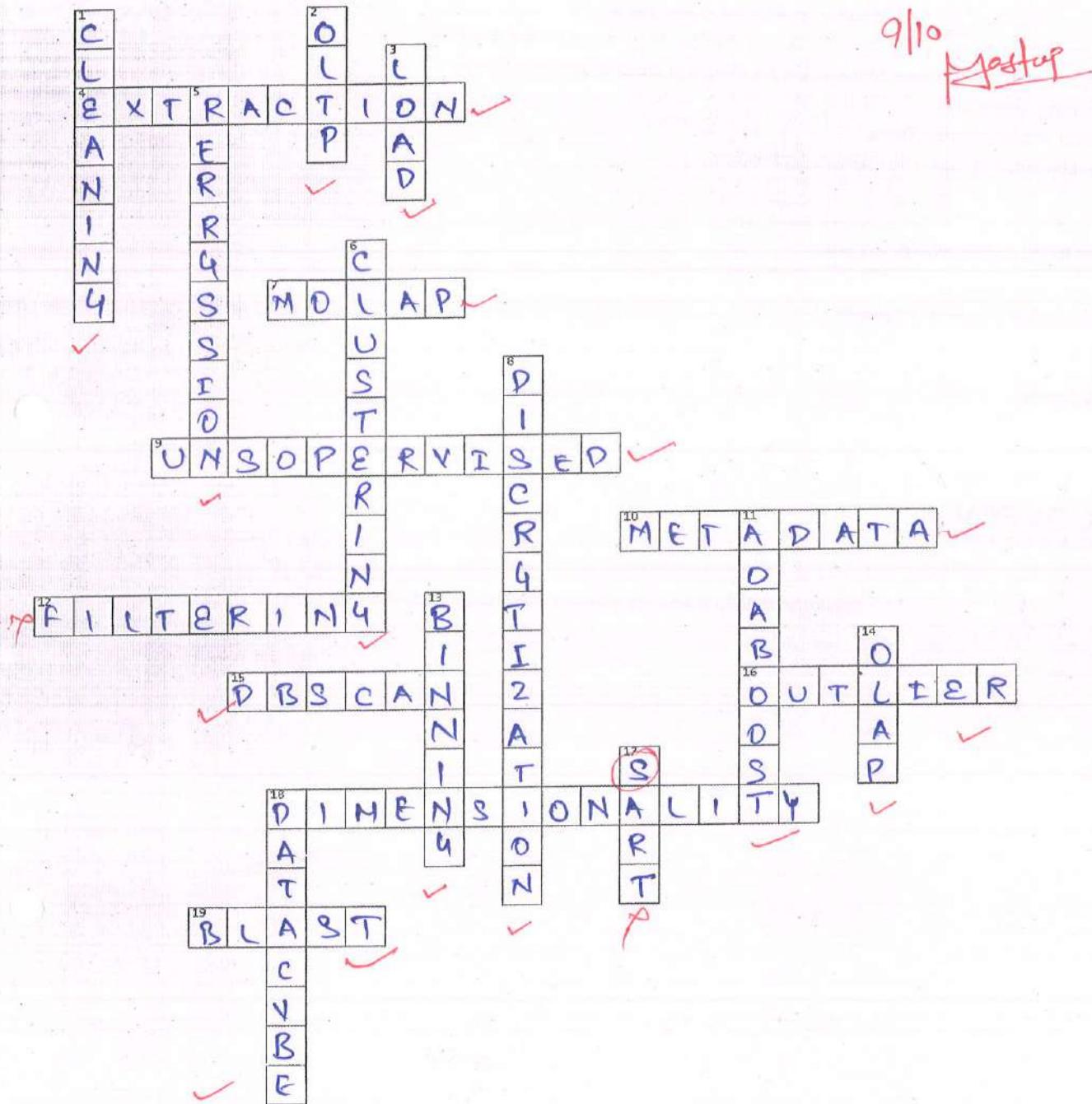
BE23149

PUZZLEMAKER
CREATE YOUR OWN PUZZLES

F
R
E
E
A
P
N

Puzzlemaker is a puzzle generation tool for teachers, students and parents. Create and print customized word search, criss-cross, math puzzles, and more-using your own word lists.

Data Mining



ACROSS

4. gathers data from multiple, heterogeneous, and external sources.
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Use the clues to fill in the words above.

Words can go across or down.

Letters are shared when the words intersect.

20 of 20 words placed.

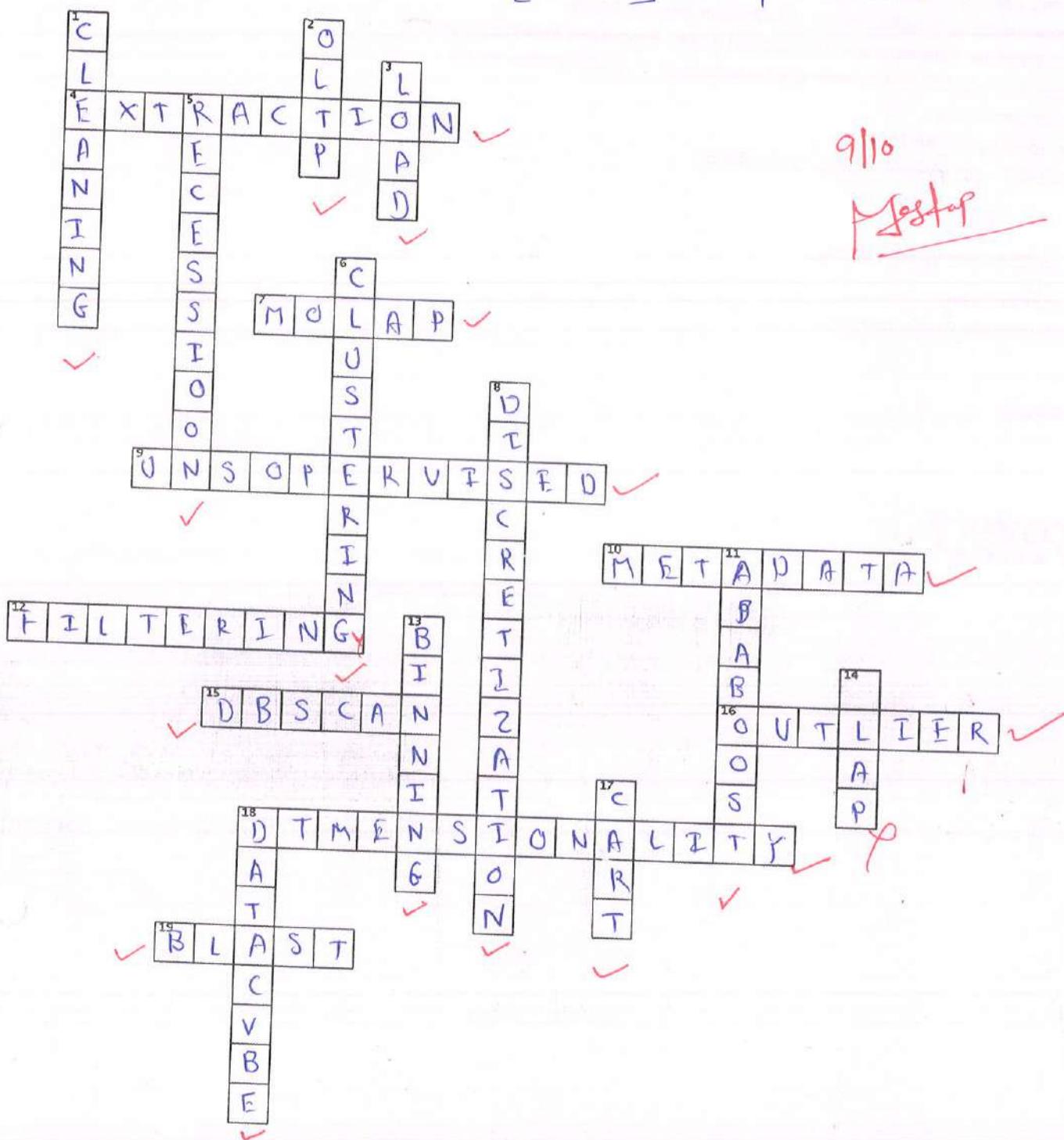


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Data Mining

[BE-57] Deep kanawade.



9/10

Mostap

ACROSS

4. gathers data from multiple, heterogeneous, and external sources.
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1
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the clues to fill in the words above.

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ers are shared when the words intersect.

of 20 words placed.



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Conduction platform: Classroom (A302)

Assessment tool: Direct (0.5 marks for every correct answer)

Steps followed for effective implementation:

1. Criss cross puzzle was designed to involve students in self and lifelong learning for key points of course.
2. Time Bound was allotted.
3. Students must submit complete solved puzzle in classroom only.

Details for student submission: (Attached separately answer sheets)

Process followed for performance Evaluation:

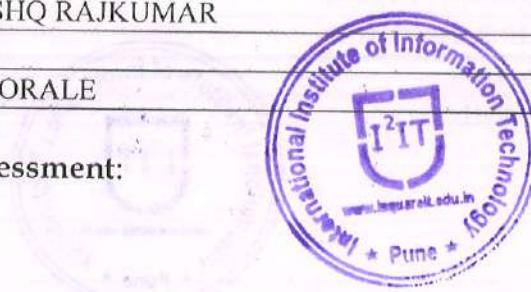
Roll No.	Name of Student	Marks (out of 10)
BE23101	APURVA SANTOSH APUNE	7
BE23102	ATHARVA SAGAR CHATUR	7
BE23103	BARAVKAR PIYUSHI SURESH	10
BE23104	DESAI GAURI SANJAY	7
BE23105	GHATOL AMIT SANJAY	9
BE23106	GIRIYAL ATHARVA	7
BE23107	HEMANG AMRITLAL JAIN	8
BE23108	KAITKAR PRIYANKA	10
BE23109	KHOLE DHANANJAY VIVEK	9
BE23110	KODAG SARTHAK MAHENDRA	10
BE23111	MAHARAJ SHUBHAM	8
BE23112	MALAVADE MEGHNA NITIN	8
BE23113	MALI VIRENDRA	8
BE23114	MISHRA YASH MANOJ	10
BE23115	MRUNMAI KULKARNI	7
BE23116	NADARGE SAKSHI ANIL	9
BE23117	PARKHE KHUSHI KIRAN	7
BE23118	PATIL ANUSHREE UMESH	8
BE23119	PATIL DIGVIJAY RAVIRAJ	7
BE23120	RANE YASH YOGIRAJ	7
BE23121	RAVI PRAKASH	7
BE23122	SHIRKE KALPESH	9
BE23123	SURANA SMRUTI SUNIL	8
BE23124	THAKARE RUPESH VIJAY	6
BE23125	YASHSINGH CHANDEL	6
BE23126	YUKTA MILIND KABRA	10
BE23127	ZAHRA JAWEED AMIN	9
BE23128	KHOT SHRISHAIL SANJAY	8
BE23129	RISHAB KAR CHAUDHURI	9
BE23130	SHEREKAR YASH RAVINDRA	10
BE23131	ABHISHEK DILIP RATHOD	8
BE23132	ALTE SHRUTI VILAS	8
BE23133	BARI SAKSHI SUNIL	7



BE23134	DHAKNE ASHISH VIJAY	6
BE23135	KADAM ATHARV YOGESH	8
BE23136	KADAM BHAKTI BHAGWAN	10
BE23137	KADAM VAIBHAV	10
BE23138	KHAMGAL DHANASHREE	9
BE23139	KHAMGAL NIKITA VITTHAL	10
BE23140	MANDLK GAURI PRAVIN	8
BE23141	MANE NEHA SAMBHADI	6
BE23142	PATIL VAISHALI UMAKANT	9
BE23143	SATPUTE TEJAS SAMBHADI	9
BE23144	SHINDE AAKANKSHA	8
BE23145	SHIVANGI SANTOSH JADHAO	8
BE23146	SOLANKE MANGESH	10
BE23147	UMBARKAR YASH RAJIV	7
BE23148	WAGH OM NILESH	7
BE23149	ANKIT RAJ SHARMA	9
BE23150	ARGULWAR AJAY MANOJ	7
BE23151	BHURE VYANKAT ACHYUTE	10
BE23152	DAYMA GIRIRAJ MANISH	6
BE23153	GAIDHANI VISHVESH	7
BE23154	GHARDE ARADHYA VIJAY	10
BE23155	GODASE ABHINESH MOHAN	9
BE23156	KAMBLE GEETA SURYAKANT	AB
BE23157	KANAWADE DEEP RAJENDRA	9
BE23158	KUSALE NIKHIL DATTATRAY	7
BE23159	MUJAWAR SALMAN	9
BE23160	PATIL SAKSHI ULHAS	10
BE23161	SANSKRUTI PATOND	8
BE23162	SARTHAK GUPTA	10
BE23163	SATHE SAYALI KAILAS	8
BE23164	SHREYA SHARMA	7
BE23165	SUMIT AMIT TIWARI	7
BE23166	VARUN SURESH GUPTA	8
BE23167	WAGH ONKAR SHAHU	6
BE23168	WAGHMARE ATHARVA	7
BE23169	YASH PRADIP JAGTAP	10
BE23170	BHURE RUPESH DATTA	9
BE23171	MALEGAVI PRAJWAL ASHOK	9
BE23172	SARDAR ANURAG PRABIR	9
BE23173	CHOUDHARY NARAYAN	7
BE23174	JAWALEKAR PARTH SHAILESH	8
BE23175	MIRKALE TANISHQ RAJKUMAR	9
BE23176	TEJAS BHAGAT	6
BE23177	VINAY VILAS MORALE	8

Feedback analysis of direct assessment:

Average result: 8.18



Impact of the innovative practice:

1. The students learnt important keyword followed by concept in a engaging fun type environment.
2. The participation was active.
3. It made impact for lifelong use and learning.

Reflective critiques for team assisted individualization:

1. The activity has to be taken in less time for more impact.
2. Changes for the next activity: Overlapping and mirror words must be avoided.

Mastur *→* *Angal: A Jevgtau*

Signature of the Course Teacher





Hope Foundation's
International Institute of Information Technology
P-14, Rajiv Gandhi Info Tech Park, Phase – 1, Hinjawadi, Pune – 411 057
Department of Electronics & Telecommunications

Team Quiz Activity

Academic Year and Semester: 2023-2024 Semester I

Branch: E&TC

Class: TE

Subject: Database Management

Subject code: 304103

Day and Date: Thursday, 12th October 2023

Objectives of the activity:

- a) To revise SQL syntax in database management.
- b) To revise concepts in database management in self paced learning method.
- c) To create interest in students by taking fun type teaching and learning activities.

The learning outcomes of the activity:

After completion of the activity students will be able to

- a) Trace and recall common and popular SQL.
- b) Demonstrate self learning ability.

No. of Students attended: 47

List of resources shared:

Link: <https://jeopardylabs.com/play/sql-queries> on projector

Question sheet is attached as separate sheet

Conduction platform: Classroom (A301)

Assessment tool: Direct (10 marks for every correct answer)

Steps followed for effective implementation:

1. Total 4 Teams of 12 students
2. No pass of Question to other teams
3. After answer, detail explanation is excepted.
4. Time Bound was allotted.



Questions

A	B	C	D
10 which of the following displays the unique values of the column? <code>SELECT dept_name FROM instructor;</code> Distinct	10 <code>SELECT emp_name FROM department WHERE dept_name LIKE _____ Computer Science';</code> Which one of the following has to be added into the blank to select the dept_name which has Computer Science as its ending string? %	10 Aggregate functions are functions that take a _____ as input and return a single value. Collection of values	10 The _____ condition allows a general predicate over the relations being joined. on
10 The _____ clause is used to list the attributes desired in the result of a query. select	10 <code>SELECT name FROM instructor WHERE dept name = 'Physics' ORDER BY name;</code> By default, the order by clause lists items in _____ order. Ascending	10 <code>SELECT name FROM instructor WHERE dept name = 'Comp. Sci.';</code> Which of the following should be used to find the mean of the salary ?	10 <code>SELECT COUNT (____ ID) FROM teaches WHERE semester = 'Spring' AND YEAR = 2010;</code> Avg(salary)
10 In the given query which of the keyword has to be inserted? <code>INSERT INTO employee _____ (1002,Joey,2000);</code> values	10 <code>SELECT * FROM instructor ORDER BY salary _____, name _____;</code> To display the salary from greater to smaller and name in ascending order which of	10 What type of join is needed when you wish to include rows that do not have matching values? Inner join	10 Outer join  If we do want to eliminate duplicates, we use the keyword _____ in the aggregate expression.

the following options should be used?	<p>10</p> <p>Desc, Asc</p>		<p>10</p> <p>In SQL the spaces at the end of the string are removed by _____ function</p> <p>Trim</p> <p>Count(*)</p>
<p>10</p> <p>SELECT name _____ instructor name, course id FROM instructor, teaches WHERE instructor.ID= teaches.ID;</p> <p>Which keyword must be used here to rename the field name?</p>			<p>10</p> <p>The phrase "greater than at least one" is represented in SQL by _____</p> <p> </p> <p>> some</p> <p>"Comp Sci"</p> <p>In the SQL given above there is an error . Identify the error.</p>
			<p>10</p> <p>How many tables may be included with a join?</p> <p>multiple</p>



Details for student submission: Maintain as team score and was live available to see.
 (Separate sheet is attached as proof from the link)

The image shows a digital quiz interface. At the top, there are buttons for 'Continue' and 'ESC' on the left, 'D for 10' in the center, 'Reveal Correct Response' and 'Spacebar' on the right. Below this, a large question is displayed: "Which join refers to join records from the right table that have no matching key in the left table are include in the result set:". Underneath the question, the text "right outer join" is centered. On the left side of the interface, there is a vertical 'MENU' button. In the center, there are four boxes labeled 'Team 1', 'Team 2', 'Team 3', and 'Team 4'. Each box contains a score (50, 40, 30, 30) and a plus-minus sign below it. To the right of the boxes, there is a message: "Activate Windows Go to Settings to activate Windows".

Fig 1: Score Card of Quiz

Process followed for performance Evaluation:

Roll No.	Name of Student	Marks (out of 50)	Team Name
TE23101	AWATE SMRUTI RAMCHANDRA	50	A
TE23102	BADHE VAIBHAV PURUSHOTTAM	50	A
TE23104	BHARDWAJ HARSH MUKESHBHAI	AB	AB
TE23105	BHOYAR GOURI SANDEEP	AB	AB
TE23106	CHAVAN TANVI ANIL	AB	AB
TE23107	DESAI ATISH ASHOK	AB	AB
TE23108	GADGIL SIDDHIKA SANTOSH	50	A
TE23109	GADHAVE ISHANT CHHOTUKUMAR	50	A
TE23110	HRISHIKESH GORAKH AUTI	50	A
TE23111	JATAL ADITI DIGAMBAR	AB	AB
TE23112	JOSHI SOHAM CHANDRASHEKHAR	50	A
TE23113	KAKDE RUTIKA SUNIL	50	A
TE23115	KAPADNIS SHRAVANI PRASHANT	50	A
TE23116	MANDIRA BABULAL BAGLE	AB	AB
TE23117	MANE DANISH ROHIDAS	AB	AB
TE23118	NAWALE RESHMA NAVNATH	50	A
TE23119	NUZHAT ABDUS SALAM INAMDAR	50	A
TE23120	PAWAR SHRUSHTI VISHWANBAR	50	A
TE23121	RASAL ASHWINI RAJARAM	50	A
TE23122	RASAL PALLAVI SAMPAT	40	B
TE23123	SAMRUDDHI DHANANJAY BHADANE	40	B
TE23124	SRIVASTAVA ISHTA	40	B
TE23125	SUYASH PARAG KARNAD	40	B
TE23126	SWAPNIL SHANTINATH SATPUTE	40	B
TE23127	TARFE PRATIK SANJAY	AB	AB



TE23128	URADE DIPAK SANJAY	40	B
TE23129	UTTEKAR KANYA RAMCHANDRA	40	B
TE23130	WAGHMARE AKASH ARUN	40	B
TE23131	YADAV ADITYA MADHAV	40	B
TE23132	ARGHODE RUHI HEMANT	40	B
TE23133	ATHANE SHUBHAM SURESH	40	B
TE23134	ATHARVA SACHIN KHARE	AB	AB
TE23135	BAFANA KHUSHI ABHAY	AB	AB
TE23136	BANKAR YASH MANOJ	40	B
TE23137	BANSODE LIMBNATH VYANKAT	AB	AB
TE23138	BASWADE ANIKET AMOL	30	C
TE23139	BIRADAR ADITYA MAHADEV	30	C
TE23140	CHAKOTE TEJAS CHANDRAKANT	AB	AB
TE23141	CHAUDHARI NISCHAL RAHUL	30	C
TE23142	CHAVAN SOHAM PANDURANG	AB	AB
TE23143	DHAGALESHUBHAM SHRIKANT	30	C
TE23144	FALGUN HEMANT PATIL	AB	AB
TE23145	GAHIWAD DARSHAN KISHOR	AB	AB
TE23146	GOSAVI RAGHAV VEERENDRA	AB	AB
TE23147	GUNDAL PARAG BHIMRAJ	30	C
TE23148	HALKUNDE PRATIK SANTU	30	C
TE23149	HARSHIT RISHI PANDE	30	C
TE23150	KENDRE TANMAY SANDESH	AB	AB
TE23151	KESARKAR GANESH SHIVKUMAR	30	C
TE23152	KHANDARE RHUTUJA PRASHANT	30	C
TE23153	LONKAR SANIKA SANJAY	30	C
TE23154	MAINDE MANAS YOGESH	30	C
TE23155	MANANI RIYA MANISH	AB	AB
TE23156	MANDAVGAD RITESH RAJENDRA	AB	AB
TE23157	MANGESH RAJABHAU GAIKWAD	30	C
TE23158	OZA JHANVI UDAY	AB	AB
TE23159	PANSARE HARSHADA SUNIL	30	D
TE23160	PATIL DISHANT MOHAN	AB	AB
TE23161	PATIL MANDAR SANTOSHRAO	30	D
TE23162	PAWAR ATHARVA SHASHIKANT	30	D
TE23163	RAJGUIDE KSHITIJ MAHENDRA	30	D
TE23164	RATHOD ANIKET BALAJI	AB	AB
TE23165	SAYYAM RAHUL CHORDIYA	30	D
TE23166	SHINDE SANIKA SANDESH	30	D
TE23167	SHINDE SNEHAL RAJENDRA	30	D
TE23168	SHINDE SWAPNIL UTTAM	30	D
TE23169	SHINDE VISHAKHA SANJEEV	AB	AB
TE23170	SIDDHANT YAJUR DHONGDE	AB	AB
TE23171	SONGIRE HARSH SUNIL	30	D
TE23172	TARKE PRATHMESH ANANT	AB	AB
TE23173	WAYSE AADITI SUJAYKUMAR	30	D
TE23174	YUVRAJ SINGH	AB	AB
TE23175	ZAWAR VIDHI DINESH	30	D



Feedback analysis of direct assessment:

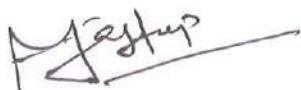
Average result: 38

Impact of the innovative practice:

1. The students learnt SQL query followed by concept in a engaging fun type environment.
2. The participation was active.
3. It made impact for lifelong use and learning.

Reflective critiques for team assisted individualization:

1. The activity has to be taken in less time for more impact.
2. Changes for the next activity: Team size will be reduced to get individual student involvement.



signature of the Course Teacher

