



RAJARAJESWARI COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi.

Affiliated to the Visvesvaraya Technological University, Belagavi

Criterion: 2.3.2





Academic Year: 2023-24

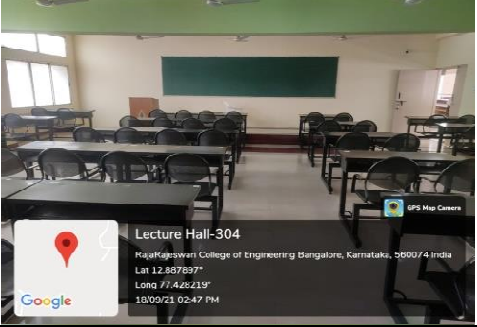





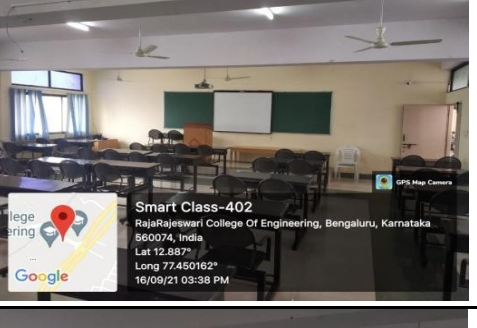








2.3.2. Teachers use ICT enabled tools for effective teaching learning process.

a. Classroom with Blackboard and ICT Tools (LCD Screen, Projector, wifi and Audio System)					
SL. NO.	Department	Name of classrooms / Seminar Hall	Room number	ICT facility	Photos which linked to Geo Tagging Camera
1	Mechanical	CLASS ROOM	102	Projector with screen, wifi and internet connection	
2		CLASS ROOM	103	Projector with screen, wifi and internet connection	
3		CLASS ROOM	104	Projector with screen, wifi and internet connection	
4		SEMINAR HALL	105	Projector with screen, Two Speaker, LAN hub, wifi. Air condition, Computer system.	
5		SEMINAR HALL	107	Projector with screen, Two Speaker, LAN hub, wifi, Air condition, Computer system.	
6		CLASS ROOM	108	Projector with screen, wifi and internet connection	
7		CLASS ROOM	109	Projector with screen, wifi and internet connection	


8	Mechanical	CLASS ROOM	110	wifi	 
9		CLASS ROOM	111	wifi	 
10	Electrical and Electronics Engineering	CLASS ROOM	119	Projector with screen, wifi and internet connection	 
11		CLASS ROOM	120	Projector with screen, wifi and internet connection	 
12		CLASS ROOM	121	wifi	 
13		SEMINAR HALL	122	Projector with screen, Two Speaker, LAN hub, wifi, Air condition.	 
14		Information Science and Engineering	CLASS ROOM	202	Projector with screen, wifi and internet connection.
15	CLASS ROOM		203	Projector with screen, wifi and internet connection.	 


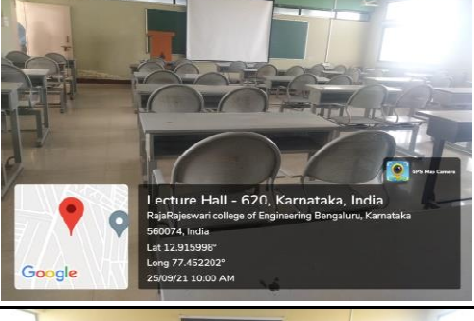
16	Information Science and Engineering	CLASS ROOM	204	Projector with screen, wifi and internet connection.	
17		SEMINAR HALL	205	Projector with screen, Two Speaker, LAN hub, wifi, Air condition.	
18	Science and Humanities	CLASS ROOM	218	wifi and internet connection	
19		CLASS ROOM	219	wifi and internet connection	
20		CLASS ROOM	220	wifi and internet connection	
21		CLASS ROOM	221	wifi and internet connection	
22		CLASS ROOM	302	wifi and internet connection	
23	CLASS ROOM	303	wifi and internet connection		

24	Science and Humanities	CLASS ROOM	304	wifi and internet connection	
25		CLASS ROOM	305	wifi and internet connection	
26		CLASS ROOM	314	wifi and internet connection	
27		CLASS ROOM	315	wifi and internet connection	
28		CLASS ROOM	316	wifi and internet connection	
29		CLASS ROOM	317	wifi and internet connection	
30	Electronics and Communication Engineering	SMART CLASS ROOM	402	Projector with Smart Board , wifi and internet connection and Two AC.	
31		CLASS ROOM	403	Projector with screen, wifi and internet connection.	

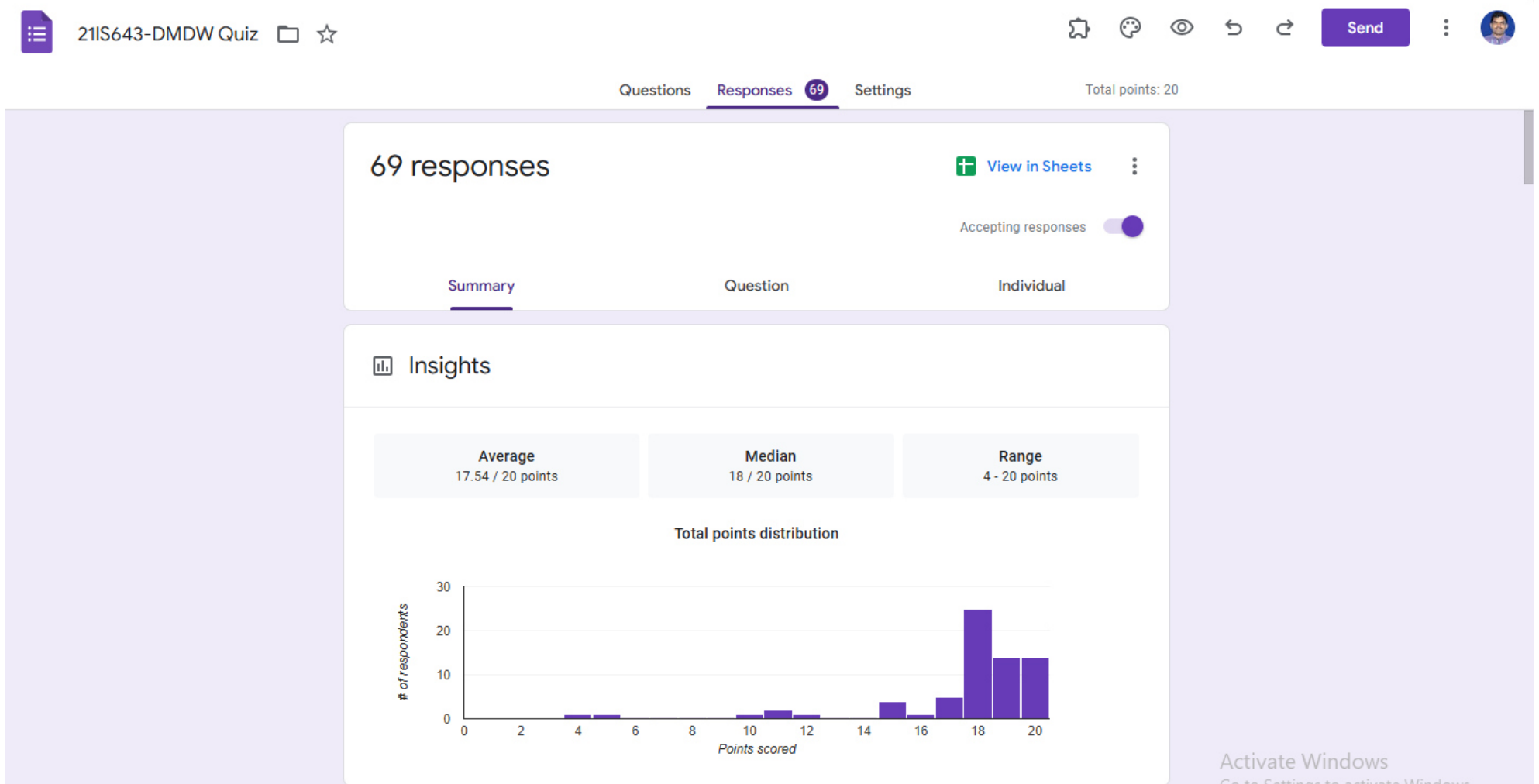
32	Electronics and Communication Engineering	CLASS ROOM	404	Projector with screen, wifi and internet connection.	 Lecture Hall -404 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887° Long 77.450162° 10/09/21 03:32 PM
33		CLASS ROOM	405	Projector with screen, wifi and internet connection	 Lecture Hall -405 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887° Long 77.450162° 16/09/21 03:29 PM
34		SEMINAR HALL	407	Projectorwith screen, Two Speaker, wifi and Two AC.	 ECE Seminar Hall - 407 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887008° Long 77.450162° 22/09/21 02:59 PM
35		CLASS ROOM	409	Projector with screen, wifi and internet connection.	 Lecture Hall -409 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887° Long 77.450162° 18/09/21 03:07 PM
36		CLASS ROOM	419	Projector with screen, wifi and internet connection.	 Lecture Hall - 419 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887° Long 77.450162° 18/09/21 03:16 PM
37		CLASS ROOM	420	Projector with screen, wifi and internet connection	 Lecture Hall - 420 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887° Long 77.450162° 18/09/21 03:12 PM
38		CLASS ROOM	421	Projector with screen, wifi and internet connection.	 Lecture Hall -421 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887° Long 77.450162° 16/09/21 03:50 PM
39		CLASS ROOM	422	Projector with screen, wifi and internet connection.	 Lecture Hall -422 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.887° Long 77.450162° 16/09/21 03:49 PM

40	Computer Science and Engineering	CLASS ROOM	502	Projector with screen, wifi and internet connection	
41		CLASS ROOM	503	Projector with screen, wifi and internet connection	
42		CLASS ROOM	504	Projector with screen, wifi and internet connection	
43		CLASS ROOM	505	Projector with screen, wifi and internet connection	
44		SEMINAR HALL	507	Projector with screen, Two Speaker, LAN hub, wifi and Two AC	
45		CLASS ROOM	509	wifi	
46		CLASS ROOM	510	wifi	
47		CLASS ROOM NO.519	519	Projector with screen, wifi and internet connection	

48	Computer Science and Engineering	CLASS ROOM	520	Projector with screen, wifi and internet connection	 Lecture Hall - 520 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886343° Long 77.449554° 16/09/21 02:47 PM
49		CLASS ROOM	521	Projector with screen, wifi and internet connection	 Lecture Hall - 521 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886343° Long 77.449554° 16/09/21 02:45 PM
50		SMART CLASS ROOM	522	Projector with Smart Board, wifi and internet connection and Two AC	 Smart Class - 522 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886343° Long 77.449554° 16/09/21 02:39 PM
51	Civil Engineering	CLASS ROOM	602	Projector with screen, wifi and internet connection	 Lecture Hall - 602 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886279° Long 77.449645° 17/09/21 03:13 PM
52		CLASS ROOM	603	Projector with screen, wifi and internet connection	 Lecture Hall - 603 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886279° Long 77.449645° 17/09/21 03:17 PM
53		CLASS ROOM	604	Projector with screen, wifi and internet connection	 Lecture Hall - 604 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886279° Long 77.449645° 17/09/21 03:16 PM
54		CLASS ROOM	605	Projector with screen, wifi and internet connection	 Lecture Hall - 605 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886279° Long 77.449645° 17/09/21 03:14 PM
55		SEMINAR HALL	608	Projector with screen, Two Speaker, LAN hub, wifi, Air condition	 Seminar Hall - 608 RajaRajeswari College Of Engineering, Bengaluru, Karnataka 560074, India Lat 12.886279° Long 77.449645° 18/09/21 12:10 PM

56	Civil Engineering	CLASS ROOM	609	wifi	
57		CLASS ROOM	610	wifi	
58	MBA/MCA	SEMINAR HALL	612	Projector with screen, Two Speaker, LAN hub, wifi, Air condition	
59	MBA	CLASS ROOM	620	Projector with screen, wifi and internet connection	
60	MCA	CLASS ROOM	621	Projector with screen, wifi and internet connection	
61		CLASS ROOM	622	Projector with screen, wifi and internet connection	
62	MBA	CLASS ROOM	623	Projector with screen, wifi and internet connection	

b. Quiz and polls are conducted while taking the class to have an interactive environment among the students and teachers through Google forms / sheets:



c. Power point Presentation:

Module 3 : Mining Association Rules

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Road map

- **Basic concepts**
- Apriori algorithm
- Different data formats for mining
- Mining with multiple minimum supports
- Mining class association rules
- Summary

Association rule mining

- Proposed by **Agrawal et al in 1993**.
- It is an important data mining model studied extensively by the database and data mining community.
- Assume all data are categorical.
- No good algorithm for numeric data.
- Initially used for **Market Basket Analysis** to find how items purchased by customers are related.

Bread → Milk [sup = 5%, conf = 100%]

The model: data

- $I = \{i_1, i_2, \dots, i_m\}$: a set of *items*.
- **Transaction t** :
 - t a set of items, and $t \subseteq I$.
- **Transaction Database T** : a set of transactions
 $T = \{t_1, t_2, \dots, t_n\}$.

Transaction data: supermarket data

- **Market basket transactions:**
 - t1: {bread, cheese, milk}
 - t2: {apple, eggs, salt, yogurt}
 - ...
 - tn: {biscuit, eggs, milk}
- **Concepts:**
 - **An item**: an item/article in a basket
 - I : the set of all items sold in the store
 - **A transaction**: items purchased in a basket; it may have TID (transaction ID)
 - **A transactional dataset**: A set of transactions

Transaction data: a set of documents

- **A text document data set. Each document is treated as a “bag” of keywords**
 - doc1: Student, Teach, School
 - doc2: Student, School
 - doc3: Teach, School, City, Game
 - doc4: Baseball, Basketball
 - doc5: Basketball, Player, Spectator
 - doc6: Baseball, Coach, Game, Team
 - doc7: Basketball, Team, City, Game