

## Index

S.No.	Description	Yes	No
1	Academic calendar	√	
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5	Rubrics List for Internal Practical Assessment( <i>Only for Lab Courses</i> )	√	
6	Assignments	√	



Director  
Faculty of Engineering  
Teerthanker Mahaveer University  
Moradabad

**TEERTHANKER MAHAVEER UNIVERSITY**  
**COLLEGE OF COMPUTING SCIENCES & INFORMATION TECHNOLOGY**  
**Academic Calendar: Session 2019-20**

Activity	Odd Semester	Even Semester
Commencement of Semester	<b>August 01, 2019</b> (All Programmes) : Two weeks induction programme for new students at the commencement	<b>January 08, 2020</b> (All Programmes)
Last date of depositing Semester Tuition Fee (without late fee fine)	August 20, 2019	January 20, 2020
Founders Day	September 14, 2019	-
Sports Events	College trials and teams : 17-19 October, 2019	TMU Intercollegiate : February 10 – 21, 2020
CT-I	September 26 - 28, 2019	Feb 27 – 29, 2020
Diwali & Holi Break (for students only)	October 28 – November 02, 2019	March 09 – 14, 2020
CT-II	October 25, November 04 & 05, 2019	April 09 – 11, 2020
Last day of Submission of Examination Form	October 19, 2019	March 21, 2020
Last Teaching Day of Semester	December 04, 2019	May 06, 2020
Preparatory leave & CT - III	December 05-07,2019	May 07 – 09, 2020
External Examination (Theory & Practical)	December 09 – 27, 2019	May 11 – 30, 2020
Vacation/Education Tour/Training for students/ FDPs	December 28, 2019 – January 07, 2020	June 01 – July 31, 2020

Note:

- 1) Students of all the programmes are required to register themselves on or before the commencement of every semester.
- 2) If last date falls on a non-working day, the immediate next working day shall be treated as last date.
- 3) Dates may change due to unavoidable circumstances.

RG TT	9:00 - 9:55	9:55- 10:50	10:50- 11:05	11:05- 11:55	11:55-12:45	12:45- 1:45	1:45-2:35	2:35- 3:25	3:25 - 4:15
MON			<b>T E A B R E A K</b>			<b>L U N C H</b>			
TUE		ECS611/ ECS609							
WED	ECS- 851 A2 LAB	ECS-851 A2 LAB					ECS-851 A1 LAB		
THU		ECS 801					ECS 851 A2LAB	ECS 801	
FRI		ECS 801					ECS611/ ECS609	ECS 851 A1 LAB	ECS 851 A1 LAB
SAT		ECS611/ ECS609			ECS611/ ECS609			GATE	GATE



Sr. No.	Enrollment No.	Name	ECS851			TOTAL MARKS
			Max. Marks			
			INTERNAL			
			20	20	10	
EXP	VV	ATT	TOTAL			
1	TCA1609001	AARADHYA JAIN	18	18	9	45
2	TCA1609002	AARUSHI JAIN	17	18	9	44
3	TCA1609003	AMRITA KUMARI	18	17	10	45
4	TCA1609004	AAYUSH JAIN	19	18	10	47
5	TCA1609005	AAYUSHI JAIN	18	17	10	45
6	TCA1609006	AAYUSHI JAIN	19	16	10	45
7	TCA1609007	ABDUL KAFEEL	18	17	10	45
8	TCA1609008	ABDUL KAREEM	18	18	10	46
9	TCA1609009	ABHISHEK JAIN	18	17	9	44
10	TCA1609010	ABHISHEK JAIN	17	19	9	45
11	TCA1609013	ADHYATMA JAIN	18	19	9	46
12	TCA1609016	AKSHAT JAIN	19	18	9	46
13	TCA1609017	AKSHITA JAIN	18	18	9	45
14	TCA1609018	AMAN JAIN	18	18	9	45
15	TCA1609021	AMOL JAIN	18	18	9	45
16	TCA1609026	ANVITA JAIN	18	17	9	44
17	TCA1609029	AYUSH JAIN	19	19	9	47
18	TCA1609030	AYUSH JAIN	18	17	9	44
19	TCA1609034	AYUSHI JAIN	18	18	9	45
20	TCA1609036	DHEERAJ JAIN	18	18	9	45
21	TCA1609043	GOUTAM VOHRA	18	17	9	44
22	TCA1609045	HARSH JAIN	16	18	9	43
23	TCA1609047	HIMANI JAIN	17	19	9	45
24	TCA1609049	JATIN JAIN	18	18	9	45
25	TCA1609051	MAHAK ARA	17	18	7	42
26	TCA1609058	MD SHAMSHAD	17	17	8	42
27	TCA1609060	MITANSHU MEHTA	18	18	9	45
28	TCA1609062	MOHD AAMIR	18	18	9	45
29	TCA1609065	MOHIT JAIN	18	18	9	45
30	TCA1609067	NAMAN JAIN	18	18	8	44
31	TCA1609069	NAMITA PRADHAN	17	18	9	44
32	TCA1609075	PRAGATI JAIN	17	17	9	43
33	TCA1609076	PRAGATI JAIN	17	18	9	44
34	TCA1609079	PRANJAL JAIN	17	18	10	45
35	TCA1609081	PRIYANSHI JAIN	18	18	9	45
36	TCA1609082	PRIYANSHU JAIN	16	17	8	41
37	TCA1609088	RITIK JAIN	17	17	9	43
38	TCA1609089	RITIKA JAIN	17	16	10	43
39	TCA1609090	RIYA JAIN	18	17	8	43
40	TCA1609092	SAHIL JAIN	17	18	9	44
41	TCA1609095	SAJAL GUPTA	17	18	9	44
42	TCA1609096	SAMBHAV JAIN	18	18	9	45
43	TCA1609097	SAMBHAV KUMAR JAIN	19	18	9	46

2

44	TCA1609100	SANKALP JAIN	18	18	9	45
45	TCA1609101	SARTHAK JAIN	17	18	8	43
46	TCA1609102	SAUMYA JAIN	18	18	10	46
47	TCA1609111	SHUBHAM KUMAR JAIN	18	18	9	45
48	TCA1609113	SIDDHARTH JAIN	17	18	9	44
49	TCA1609115	SINJANEE JAIN	17	17	9	43
50	TCA1609117	SMRATI JAIN	16	17	9	42
51	TCA1609118	SOMYA JAIN	17	17	9	43
52	TCA1609119	SONALI JAIN	18	18	9	45
53	TCA1609121	SUBHAM JAIN	18	19	8	45
54	TCA1609125	UPVAN JAIN	17	18	9	44
55	TCA1609126	URVASHI TYAGI	17	17	9	43
56	TCA1609127	VAIBHAV JAIN	17	17	8	42
57	TCA1609129	VIKASH JAIN	18	17	9	44
58	TCA1609133	YASHI SHARMA	18	18	9	45
59	TCA1609135	ABHISHEK JAIN	17	17	9	43
60	TCA1609136	VIBHOR JAIN	17	17	9	43
61	TCA1711001	SANSKRITI JAIN	17	17	9	43
62	TCA1711002	VIJAY KUMAR TOMAR	17	18	8	43
63	TCA1711003	VAIBHAV JAIN	17	18	9	44
64	TCA1711005	MOHFEEZ AHMAD	17	17	9	43
65	TCA1711006	SHRUTIKA KHANAK	17	18	10	45
66	TCA1711010	VAISHALI	18	17	10	45





तीर्थकर महावीर विश्वविद्यालय  
Teerthanker Mahaveer University  
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Department of Computer Science & Engineering

Course Code: (CS 81)

Course Name: Data Warehousing & Data Mining

Class: 2<sup>nd</sup> B Tech 8<sup>th</sup> Sem

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
1	TCA1609001	AARADHYA JAIN		P	P	P	P	P	A	A	P	P	P
2	TCA1609002	AARUSHI JAIN		P	A	P	P	A	P	P	P	P	P
3	TCA1609003	AMRITA KUMARI		P	A	P	P	P	A	P	P	P	P
4	TCA1609004	AAYUSH JAIN		P	P	P	P	P	P	A	P	A	P
5	TCA1609005	AAYUSHI JAIN		P	P	A	A	P	P	P	P	P	P
6	TCA1609006	AAYUSHI JAIN		P	P	A	P	P	P	P	P	P	P
7	TCA1609007	ABDUL KAFEEL		P	P	P	P	P	P	P	A	A	P
8	TCA1609008	ABDUL KAREEM		P	P	P	P	P	P	P	P	P	P
9	TCA1609009	ABHISHEK JAIN		P	P	P	P	P	P	P	A	P	P
10	TCA1609010	ABHISHEK JAIN		P	P	P	P	P	P	P	P	P	A

Signature





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Department of Computer Science & Engineering

Course Code: EC885

Course Name: SW & DM Lab

Class: B. Tech 8th sem

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
11	TCA1609013	ADHYATMA JAIN		P y	P y	P y	P y	P y	A No	P y	P y	P y	A No
12	TCA1609016	AKSHAT JAIN		P y	P y	P y	P y	A No	P y	P y	P y	A No	P y
13	TCA1609017	AKSHITA JAIN		P y	P y	A No	P y	P y	A No	P y	P y	P y	P y
14	TCA1609018	AMAN JAIN		P y	P y	P y	A No	P y	P y	P y	A No	P y	P y
15	TCA1609021	AMOL JAIN		P y	P y	P y	P y	A No	P y	P y	P y	A No	P y
16	TCA1609026	ANVITA JAIN		P y	P y	P y	A No	P y	P y	A No	P y	P y	P y
17	TCA1609029	AYUSH JAIN		P y	P y	A No	P y	P y	P y	A No	P y	P y	P y
18	TCA1609030	AYUSH JAIN		P y	P y	P y	P y	P y	P y	P y	A No	P y	A No
19	TCA1609034	AYUSHI JAIN		P y	P y	P y	P y	P y	A No	P y	A No	P y	P y
20	TCA1609036	DHEERAJ JAIN		P y	P y	P y	A No	A No	P y	P y	P y	P y	P y

Signature





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Department of Computer Science & Engineering

Course Code: ECSE81

Course Name: DW & DM Lab

Class: B.Tech (CS) 8th sem

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
21	TCA1609043	GOUTAM VOHRA		y P	NO A	y P	y P	y P	y P	y P	y P	y P	NO A
22	TCA1609045	HARSH JAIN		y P	y P	y P	y P	NO A	y P	y P	NO A	y P	y P
23	TCA1609047	HIMANI JAIN		y P	y P	y P	NO A	y P	NO A	y P	y P	y P	y P
24	TCA1609049	JATIN JAIN		y P	y P	NO A	y P	y P	y P	NO A	y P	y P	y P
25	TCA1609051	MAHAK ARA		y P	y P	y P	y P	y P	y P	y P	NO A	NO A	y P
26	TCA1609058	MD SHAMSHAD		y P	y P	NO A	NO A	y P	y P	y P	y P	y P	y P
27	TCA1609060	MITANSHU MEHTA		NO A	y P	y P	y P	y P	y P	y P	y P	y P	NO A
28	TCA1609062	MOHD AAMIR		y P	y P	y P	y P	NO A	NO A	y P	y P	y P	y P
29	TCA1609065	MOHIT JAIN		y P	y P	y P	y P	y P	y P	NO A	y P	NO A	y P
30	TCA1609067	NAMAN JAIN		NO A	y P	NO A	y P	y P	y P	y P	y P	y P	y P

Signature





# तीर्थकर महावीर विश्वविद्यालय Teerthanker Mahaveer University

An Ultimate Destination for World Class Education

Course Code: FCS 801

Class: B.com (co) 8th sem

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
31	TCA1609069	NAMITA PRADHAN		P y	P y	P y	A NO	P y	P y	P y	P y	P y	A NO
32	TCA1609075	PRAGATI JAIN		A NO	P y	P y	P y	P y	P y	A NO	P y	P y	P y
33	TCA1609076	PRAGATI JAIN		P y	P y	P y	P y	A NO	P y	P y	A NO	P y	P y
34	TCA1609079	PRANJAL JAIN		P y	A NO	P y	P y	P y	P y	P y	P y	A NO	P y
35	TCA1609081	PRIYANSHI JAIN		A NO	P y	P y	P y	P y	P y	P y	A NO	P y	P y
36	TCA1609082	PRIYANSHU JAIN		P y	P y	P y	A NO	P y	P y	P y	P y	P y	A NO
37	TCA1609088	RITIK JAIN		P y	P y	A NO	P y	P y	A NO	P y	P y	P y	P y
38	TCA1609089	RITIKA JAIN		P y	A NO	P y	P y	P y	P y	A NO	P y	P y	P y
39	TCA1609090	RIYA JAIN		P y	P y	P y	P y	A NO	P y	P y	P y	A NO	P y
40	TCA1609092	SAHIL JAIN		P y	A NO	P y	P y	P y	A NO	P y	P y	P y	P y

Signature





# तीर्थकर महावीर विश्वविद्यालय Teerthanker Mahaveer University

An Ultimate Destination for World Class Education

Course Code: BC & ST

Class: B.Tech (IT) 4th sem

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
41	TCA1609095	SAJAL GUPTA		P	P	P	A	P	P	A	P	P	P
42	TCA1609096	SAMBHAV JAIN		P	P	P	P	A	A	P	P	P	P
43	TCA1609097	SAMBHAV KUMAR		No	P	P	P	A	P	P	P	P	P
44	TCA1609100	SANKALP JAIN		P	P	P	P	P	P	A	P	P	A
45	TCA1609101	SARTHAK JAIN		P	P	P	A	P	P	P	A	P	P
46	TCA1609102	SAUMYA JAIN		P	P	No	P	P	A	P	P	P	P
47	TCA1609111	SHUBHAM KUMAR		No	P	P	P	P	P	P	A	P	P
48	TCA1609113	SIDDHARTH JAIN		P	P	P	P	P	P	P	P	A	A
49	TCA1609115	SINJANEER JAIN		P	No	P	P	P	P	A	P	P	P
50	TCA1609117	SMRATI JAIN		P	P	No	P	A	P	P	P	P	P

Signature





# तीर्थकर महावीर विश्वविद्यालय Teerthanker Mahaveer University

An Ultimate Destination for World Class Education

Course Code: 2CS801

Class: B.Tech (CSE) 8th sem

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
51	TCA1609118	SOMYA JAIN		P y	P y	P y	A NO	P y	P y	P y	P y	A NO	P y
52	TCA1609119	SONALI JAIN		A NO	P y	P y	P y	D y	A NO	P y	P y	P y	P y
53	TCA1609121	SUBHAM JAIN		P y	P y	A NO	P y	P y	P y	P y	P y	A NO	P y
54	TCA1609125	UPVAN JAIN		P y	P y	P y	P y	A NO	P y	P y	P y	P y	A NO
55	TCA1609126	URVASHI TYAGI		P y	A NO	P y	P y	P y	P y	P y	A NO	P y	P y
56	TCA1609127	VAIBHAV JAIN		A NO	P y	P y	P y	P y	P y	A NO	P y	P y	P y
57	TCA1609129	VIKASH JAIN		P y	A NO	P y	P y	P y	P y	A NO	P y	P y	P y
58	TCA1609133	YASHI SHARMA		P y	P y	P y	P y	A NO	P y	P y	A NO	P y	P y
59	TCA1609135	ABHISHEK JAIN		P y	P y	A NO	P y	P y	A NO	P y	P y	P y	P y
60	TCA1609136	VIBHOR JAIN		P y	P y	P y	A NO	P y	P y	P y	P y	P y	A NO

Signature





# तीर्थकर महावीर विश्वविद्यालय Teerthanker Mahaveer University

An Ultimate Destination for World Class Education

Course Code: ECS 851

Class: B Tech (CSE) 8th sem

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
1	TCA1711001	SANSKRITI JAIN		A NO	P Y	P Y	P Y	P Y	P Y	P Y	A NO	P Y	P Y
2	TCA1711002	VIJAY KUMAR TOI		P Y	P Y	A NO	P Y	P Y	P Y	P Y	P Y	P Y	A NO
3	TCA1711003	VAIBHAV JAIN		P Y	P Y	P Y	P Y	A NO	P Y	P Y	P Y	A NO	P Y
4	TCA1711005	MOHFEEZ AHMAD		P Y	A NO	P Y	P Y	P Y	P Y	P Y	P Y	A NO	P Y
5	TCA1711006	SHRUTIKA KHANAK		A NO	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	A NO
6	TCA1711010	VAISHALI		P Y	P Y	A NO	P Y	P Y	P Y	P Y	A NO	P Y	P Y

Signature



# LAB ASSIGNMENT RECORD

On

**ECS851**

**DATA WAREHOUSING AND DATA MINING**



**COLLEGE OF COMPUTING SCIENCES AND INFORMATION  
TECHNOLOGY**

**TMU, MORADABAD**

**JAN 2019 - JUNE 2020**

**Submitted To:**

Rupal Gupta

Assistant Professor

## Lab Assignment No:1

S.NO	PROGRAM NAME
1. a)	Create table <b>EMP_INFO</b> having columns: emp_id (NUMBER), name (VARCHAR(20)), age (NUMBER), address (VARCHAR(30)), dob (DATE), dt_of_join(DATE), salary (NUMBER), dept_no (NUMBER)
b)	Insert atleast five records in the above table.
c)	List the sum of salaries department wise.
d)	Create a view which lists out the emp_id, dt_of_join,salary.
2. a)	Create the given <b>SALES</b> star schema: <b>SALES_FACT_Tb</b> ( time_key (FK), item_key (FK), branch_key (FK), location_key (FK), rupees_sold, units_sold ) <b>TIME_DIM_Tb</b> (time_key (PK), day, day_of_the_week, month, quarter, year) <b>ITEM_DIM_Tb</b> (item_key (PK), item_name, brand, type, supplier_type) <b>BRANCH_DIM_Tb</b> (branch_key (PK), branch_name, branch_type) <b>LOCATION_DIM_Tb</b> (location_key (PK), street, city, state, country)
b)	Insert at least 5 records in each of the above created relation.
c)	Write SQL query to find how much 'coffee' is sold in Paschim Vihar in Delhi?
d)	Write SQL query to find the total sales of 'coffee' in year 2016.
e)	Write SQL query to display item names along with units_sold in first quarter of year 2016.
3. a)	Create the given <b>ORDER</b> star schema: <b>ORDER_FACT_Tb</b> (order_no (PK), product_no (FK), customer_id (FK), salesperson_id (FK), time_id (FK), unit_price, no_ordered) <b>PRODUCT_DIM_Tb</b> (product_no (PK), name, supplier_no, supplier_name) <b>SALESPERSON_DIM_Tb</b> (salesperson_id (PK), firstname, lastname, address, phone) <b>CUSTOMER_DIM_Tb</b> (customer_id (PK), customer_name, billing_address, billing_city, billing_state, phone)
b)	Insert at least 5 records in each of the above created relation.
c)	Write SQL query to display the list of the products ordered by customer with customer id 'C101'
d)	Write SQL query to display the product with the maximum sale.
e)	Write SQL query to display the order placed during year 2016 for product with product id as 'P105'

## Lab Assignment No: 2











**B.Tech (CSE) Semester VIII  
DATA WAREHOUSING AND DATA MINING (LAB)**

Course Code: ECS851

<b>L</b>	<b>T</b>	<b>P</b>	<b>C</b>
0	0	4	2

<b>Course Outcomes:</b>	<b>On completion of the course, the students will be :</b>
<b>CO1.</b>	Understanding Modeling and design of data warehouse.
<b>CO2.</b>	Understanding how to Install and Configure WEKA Tool
<b>CO3.</b>	Applying the concept to design Modeling and design of data warehouses.
<b>CO4.</b>	Analyzing WEKA Explorer, Mining techniques and Attribute Relation File
<b>CO5.</b>	Developing basic data warehouse applications.

1. To develop an application to implement defining subject area, design of fact dimension table, data mart.
2. To develop an application to implement OLAP, roll up, drill down, slice and dice operations.
3. To develop an application to construct a multidimensional data.
4. To develop an application to implement data generalization and summarization technique.
5. To develop an application to extract association rule of data mining.
6. To develop an application for classification of data.
7. To develop an application for one clustering technique
8. To develop an application for Naïve Baye's classifier.
9. To develop an application for decision tree.

**Course Outcome:**

The practical of this subject should be provided in such a manner that it gives students hands on:

1. Modeling and design of data warehouses.
2. Install and Configure WEKA Tool
3. Demonstrate WEKA Explorer, Mining techniques and Attribute Relation File
4. Format (ARFF).
5. Compare various Data Mining techniques available in WEKA



ECS851

Sr. No.	Enrollment No.	Name	Max. Marks															Total				
			20	20	4	4.0	10.7	10.7	10.7	10.7	30	20	4	4	14	14	14	8	8	24.7	24.7	
			EXP	VV	CO1	CO2	CO3	CO4	CO5	EXP	VV	CO1	CO2	CO3	CO4	CO5	CO1	CO2	CO3	CO4	CO5	
1	TCA1609001	AARADHYA JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	7	7.2	22.2	22.2			
2	TCA1609002	AARUSHI JAIN	17	18	3.4	3.6	9.3	9.3	9.3	28	18	3.4	3.4	12.4	12.4	7	6.8	22	21.8			
3	TCA1609003	AMRITA KUMARI	18	17	3.6	3.4	9.4	9.4	9.4	27	17	3.6	3.6	12.9	12.9	7.4	7.2	23	22.9			
4	TCA1609004	AAYUSH JAIN	19	18	3.8	3.6	9.9	9.9	9.9	28	18	3.6	3.6	12.6	12.6	7.2	7.2	22	21.9			
5	TCA1609005	AAYUSHI JAIN	18	17	3.6	3.4	9.4	9.4	9.5	27	17	3.4	3.4	12.4	12.4	7.2	6.6	22	21.9			
6	TCA1609006	AAYUSHI JAIN	19	16	3.8	3.2	9.5	9.5	9.5	26	18	3.6	3.6	12.3	12.3	7.2	7	22	21.7			
7	TCA1609007	ABDUL KAFEEL	18	17	3.6	3.4	9.4	9.4	9.4	26	18	3.6	3.6	12.9	12.9	7.2	7.2	23	22.5			
8	TCA1609008	ABDUL KAREEM	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	6.8	6.6	21	21.3			
9	TCA1609009	ABHISHEK JAIN	18	17	3.6	3.4	9.4	9.4	9.4	26	16	3.2	3.2	11.9	11.9	6.8	7.2	22	22.2			
10	TCA1609010	ABHISHEK JAIN	17	19	3.4	3.8	9.5	9.5	9.5	28	17	3.4	3.4	12.7	12.7	7.4	7.4	23	23.1			
11	TCA1609011	ADHYATMA JAIN	18	19	3.6	3.8	9.8	9.8	9.8	29	18	3.6	3.6	13.3	13.3	7.2	7.4	23	22.9			
12	TCA1609012	AKSHAT JAIN	19	18	3.8	3.6	9.9	9.9	9.9	28	18	3.6	3.6	12.9	12.9	7.4	7	23	22.7			
13	TCA1609013	AKSHITA JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	7.2	7.2	23	22.5			
14	TCA1609014	AMAN JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	7.2	7.2	23	22.5			
15	TCA1609015	AMOL JAIN	18	18	3.6	3.6	9.6	9.6	9.6	27	17	3.4	3.4	12.4	12.4	7	6.8	22	22.5			
16	TCA1609016	ANVITA JAIN	18	17	3.6	3.4	9.4	9.4	9.4	29	17	3.4	3.4	13.1	13.1	7	7	23	22.7			
17	TCA1609017	AYUSH JAIN	19	19	3.8	3.8	10.1	10.1	10.1	28	16	3.2	3.2	12.5	12.5	6.8	6.6	22	21.9			
18	TCA1609018	AYUSH JAIN	18	17	3.6	3.4	9.4	9.4	9.4	28	16	3.2	3.2	12.5	12.5	7	7	22	22.3			
19	TCA1609019	AYUSHI JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	17	3.4	3.4	12.7	12.7	7	7	22	22.3			
20	TCA1609020	DHEERAJ JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	7.2	7	22	22.3			
21	TCA1609021	GOUTAM VOHRA	18	17	3.6	3.4	9.4	9.4	9.4	28	18	3.6	3.6	12.9	12.9	7.2	7	22	22.3			
22	TCA1609022	HARSH JAIN	16	18	3.2	3.6	8.9	8.9	8.9	27	17	3.4	3.4	12.4	12.4	6.6	7	22	22.1			
23	TCA1609023	HARSH JAIN	17	19	3.4	3.8	9.5	9.5	9.5	27	18	3.6	3.6	12.6	12.6	7.4	7	22	22.3			
24	TCA1609024	HIMANI JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	17	3.4	3.4	12.7	12.7	7	7	22	22.3			
25	TCA1609025	JATIN JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	17	3.4	3.4	12.7	12.7	7	7	22	22.3			
26	TCA1609026	MAHAK ARA	17	18	3.4	3.6	9.3	9.3	9.3	27	15	3	3	12.0	12.0	6.4	6.6	21	21.3			
27	TCA1609027	MD SHAMSHAD	17	17	3.4	3.4	9.1	9.1	9.1	28	16	3.2	3.2	12.5	12.5	6.6	6.6	22	21.6			
28	TCA1609028	MITANSHU MEHTA	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	7.2	7.2	23	22.5			
29	TCA1609029	MOHD AAMIR	18	18	3.6	3.6	9.6	9.6	9.6	29	18	3.6	3.6	13.3	13.3	7.2	7.2	23	22.5			
30	TCA1609030	MOHIT JAIN	18	18	3.6	3.6	9.6	9.6	9.6	29	18	3.6	3.6	13.3	13.3	7.2	7.2	23	22.5			
31	TCA1609031	MOHIT JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	17	3.4	3.4	12.7	12.7	7	7	22	22.3			
32	TCA1609032	NAMAN JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	7.2	7.2	23	22.5			
33	TCA1609033	NAMITA PRADHAN	17	18	3.4	3.6	9.3	9.3	9.3	28	18	3.6	3.6	12.9	12.9	7	7	21	21.3			
34	TCA1609034	PRAGATI JAIN	17	17	3.4	3.4	9.1	9.1	9.1	26	18	3.6	3.6	12.9	12.9	7.2	7.2	23	22.5			
35	TCA1609035	PRAGATI JAIN	17	18	3.4	3.6	9.3	9.3	9.3	25	18	3.6	3.6	12.9	12.9	7	7.2	22	22.2			
36	TCA1609036	PRANJAL JAIN	17	18	3.4	3.6	9.3	9.3	9.3	28	18	3.6	3.6	12.9	12.9	7.2	7.2	23	22.5			
37	TCA1609037	PRIYANSHI JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	19	3.8	3.8	13.1	13.1	7.4	7.4	23	22.7			
38	TCA1609038	PRIYANSHU JAIN	16	17	3.2	3.4	8.7	8.7	8.7	25	16	3.2	3.2	11.5	11.5	6.4	6.6	20	20.3			
39	TCA1609039	PRIYANSHU JAIN	16	17	3.2	3.4	8.7	8.7	8.7	25	16	3.2	3.2	11.5	11.5	6.4	6.6	20	20.3			
40	TCA1609040	RITIK JAIN	17	17	3.4	3.4	9.1	9.1	9.1	26	17	3.4	3.4	12.1	12.1	6.8	6.8	21	21.1			
41	TCA1609041	RITIKA JAIN	17	16	3.4	3.2	8.9	8.9	8.9	28	17	3.4	3.4	12.1	12.1	6.8	6.6	21	20.9			
42	TCA1609042	RITIKA JAIN	17	16	3.4	3.2	8.9	8.9	8.9	28	17	3.4	3.4	12.1	12.1	6.8	6.6	21	20.9			
43	TCA1609043	RIYA JAIN	18	17	3.6	3.4	9.4	9.4	9.4	27	18	3.6	3.6	12.6	12.6	7.2	7	22	22.0			
44	TCA1609044	SAHIL JAIN	17	18	3.4	3.6	9.3	9.3	9.3	25	17	3.4	3.4	11.7	11.7	6.8	7	21	21.0			
45	TCA1609045	SAHIL JAIN	17	18	3.4	3.6	9.3	9.3	9.3	25	17	3.4	3.4	11.7	11.7	6.8	7	21	21.0			
46	TCA1609046	SAJAL GUPTA	18	18	3.6	3.6	9.6	9.6	9.6	27	19	3.8	3.8	12.8	12.8	7.4	7.4	22	22.4			
47	TCA1609047	SAMBHAV JAIN	18	18	3.6	3.6	9.6	9.6	9.6	27	19	3.8	3.8	12.8	12.8	7.4	7.4	22	22.4			
48	TCA1609048	SAMBHAV JAIN	19	18	3.8	3.6	9.9	9.9	9.9	27	19	3.8	3.8	12.8	12.8	7.6	7.4	23	22.7			
49	TCA1609049	SAMBHAV KUMAR JAIN	19	18	3.8	3.6	9.9	9.9	9.9	27	19	3.8	3.8	12.8	12.8	7.6	7.4	23	22.7			
50	TCA1609050	SANKALP JAIN	18	18	3.6	3.6	9.6	9.6	9.6	27	18	3.6	3.6	12.6	12.6	7.2	7.2	22	22.2			

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Sr. No.	Enrollment No.	Name	ECS851																				
			Max. Marks																				
			20	20	4	4.0	10.7	10.7	10.7	10.7	30	20	20	4	4	14	14	14	8	8	24.7	24.7	24.7
			EXP	VV	CO1	CO2	CO3	CO4	CO5	EXP	VV	CO1	CO2	CO3	CO4	CO5	CO6	CO7	CO8	CO9	CO10	CO11	CO12
45	TCA1609101	SARTHAK JAIN	17	18	3.4	3.6	9.3	9.3	9.3	26	17	3.4	3.4	12.1	12.1	12.1	6.8	7	21	21.3	21.3		
46	TCA1609102	SAUMYA JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	12.9	7.2	7.2	23	22.5	22.5		
47	TCA1609111	SHUBHAM KUMAR JAIN	18	18	3.6	3.6	9.6	9.6	9.6	27	18	3.6	3.6	12.6	12.6	12.6	7.2	7.2	22	22.2	22.2		
48	TCA1609113	SIDDHARTH JAIN	17	18	3.4	3.6	9.3	9.3	9.3	27	17	3.4	3.4	12.4	12.4	12.4	6.8	7	22	21.7	21.7		
49	TCA1609115	SINJANEE JAIN	17	17	3.4	3.4	9.1	9.1	9.1	27	18	3.6	3.6	12.6	12.6	12.6	7	7	22	21.7	21.7		
50	TCA1609117	SMRATI JAIN	16	17	3.2	3.4	8.7	8.7	8.7	24	18	3.6	3.6	11.6	11.6	11.6	6.8	7	20	20.3	20.3		
51	TCA1609118	SOMYA JAIN	17	17	3.4	3.4	9.1	9.1	9.1	27	19	3.8	3.8	12.8	12.8	12.8	7.2	7.2	22	21.9	21.9		
52	TCA1609119	SONALI JAIN	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.9	12.9	12.9	7.2	7.2	23	22.5	22.5		
53	TCA1609121	SUBHAM JAIN	18	19	3.6	3.8	9.8	9.8	9.8	27	18	3.6	3.6	12.6	12.6	12.6	7.2	7.4	22	22.4	22.4		
54	TCA1609125	UPVAN JAIN	17	18	3.4	3.6	9.3	9.3	9.3	28	18	3.6	3.6	12.9	12.9	12.9	7	7.2	22	22.2	22.2		
55	TCA1609126	URVASHI TYAGI	17	17	3.4	3.4	9.1	9.1	9.1	27	17	3.4	3.4	12.4	12.4	12.4	6.8	6.8	21	21.5	21.5		
56	TCA1609127	VAIBHAV JAIN	17	17	3.4	3.4	9.1	9.1	9.1	27	17	3.4	3.4	12.4	12.4	12.4	6.8	6.8	21	21.5	21.5		
57	TCA1609129	VIKASH JAIN	18	17	3.6	3.4	9.4	9.4	9.4	26	16	3.2	3.2	11.9	11.9	11.9	6.8	6.6	21	21.3	21.3		
58	TCA1609133	YASHI SHARMA	18	18	3.6	3.6	9.6	9.6	9.6	28	18	3.6	3.6	12.3	12.3	12.3	7.2	7.2	22	21.9	21.9		
59	TCA1609135	ABHISHEK JAIN	17	17	3.4	3.4	9.1	9.1	9.1	26	17	3.4	3.4	12.1	12.1	12.1	6.8	6.8	21	21.1	21.1		
60	TCA1609136	VIBHOR JAIN	17	17	3.4	3.4	9.1	9.1	9.1	26	18	3.6	3.6	12.3	12.3	12.3	7	7	21	21.3	21.3		
61	TCA1711001	SANSKRITI JAIN	17	17	3.4	3.4	9.1	9.1	9.1	26	17	3.4	3.4	12.1	12.1	12.1	6.8	6.8	21	21.1	21.1		
62	TCA1711002	VIJAY KUMAR TOMAR	17	18	3.4	3.6	9.3	9.3	9.3	27	18	3.6	3.6	12.6	12.6	12.6	7	7.2	22	21.9	21.9		
63	TCA1711003	VAIBHAV JAIN	17	18	3.4	3.6	9.3	9.3	9.3	26	17	3.4	3.4	12.1	12.1	12.1	6.8	7	21	21.3	21.3		
64	TCA1711005	MOHFEZ AHMAD	17	17	3.4	3.4	9.1	9.1	9.1	25	18	3.6	3.6	11.9	11.9	11.9	7	7	21	21.0	21.0		
65	TCA1711006	SHRUTIKA KHANAK	17	18	3.4	3.6	9.3	9.3	9.3	27	17	3.4	3.4	12.4	12.4	12.4	6.8	7	22	21.7	21.7		
66	TCA1711010	VAISHALI	18	17	3.6	3.4	9.4	9.4	9.4	27	18	3.6	3.6	12.6	12.6	12.6	7.2	7	22	22.0	22.0		

Total marks COs

8	8	25	25	24.7
CO1	CO2	CO3	CO4	CO5
4	4	12	12	12.3
66	66	66	66	66

Target values>50

Students achieved target

  
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Benchmark and Attainment				
60% of Students get more than target				1
70% of Students get more than target				2
80% of Students get more than target				3

Students Above Threshold				
Cos	Students		%	Att.
CO1	66		100	3
CO2	66		100	3
CO3	66		100	3
CO4	66		100	3
CO5	66		100	3

3

CO	Statement	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO1	PSO2	PSO3
ECS851CO1	Understanding Modeling and design of data warehouse.	1	1											1	1	1
ECS851CO2	Understanding how to Install and Configure Weka Tool.	1	1			1				1.0						1
ECS851CO3	Applying the concept to design a star and snowflake schema.	1	2	2	1				1.0	1.0				2		2
ECS851CO4	Construct Various Query processing to retrieve data from Data Models.	2	2	2	1				1.0	1.0				2		2
ECS851CO5	Apply Data mining technique of arff file using Weka	1	1	1		1								1	2	1
	Average	1.2	1.4	1.666666667	1	1			1	1				1.5	1.5	1.4
	Attainment	1.2	1.4	1.666666667	1	1			1	1				1.5	1.5	1.4

  
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