



तीर्थकर महावीर विश्वविद्यालय
Teerthanker Mahaveer University
An Ultimate Destination for World Class Education

COURSE FILE

FACULTY OF ENGINEERING

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Program : B.Tech. CSE
Academic Year : 2019-20
Faculty Member : Dr Varun Kumar Singh
Faculty Email Id : drvarun.engineering@tmu.ac.in
Course Name : Engineering Chemistry (Lab)
Course Code : EAS 263
Semester : II

Director
Faculty of Engineering
Teerthanker Mahaveer University
Moradabad.

1. Academic Calendar Session: 2019-20

Activity	Odd Semester	Even Semester
Commencement of Semester	August 01, 2019 (All Programmes) : Two weeks induction programme for new students at the commencement	January 08, 2020 (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.

3. Syllabus

Course Perspective:

Students will develop and gain various skills that are transferable within the engineering world and practical skills that are equally useful in plenty of other sectors. Problem-solving skills are honed, and their interpersonal and communication skills will also improve with the amount of team work that they will be required to do.

Course Code: EAS163	Laboratory Course-1 Specialization- Artificial Intelligence, Machine Learning & Deep Learning B.TECH(CSE)- Semester-I Engineering Chemistry (Lab)	L-0 T-0 P-2 C-1
Course Outcomes:	On completion of the course, the students will be :	
CO1.	Understanding the concepts of Hardness of water.	
CO2.	Analyzing & estimating of various parameters of water.	
CO3.	Analyzing of Calorific value of Solid fuel by Bomb calorimeter & Liquid Fuels by Junkers Gas Calorimeter.	
CO4.	Analyzing of open & closed Flash point of oil by Cleveland & Pensky's Martens apparatus.	
CO5.	Analyzing of viscosity of lubricating oil using Redwood Viscometer.	
LIST OF EXPERIMENTS:	Note: Select any ten experiments from the following list	
1	Determination of Total Hardness of a given water sample.	
2	Determination of mixed alkalinity (a) Hydroxyl & Carbonate (b) Carbonate & Bicarbonate	
3	To determine the pH of the given solution using pH meter and pH-metric titration	
4	Determination of dissolved oxygen content of given water sample	
5	To find chemical oxygen demand of waste water sample by potassium dichromate	
6	Determination of free chlorine in a given water sample	
7	To determine the chloride content in the given water sample by Mohr's method	
8	To prepare the Bakelite resin polymer	
9	To determine the concentration of unknown sample of iron spectrophotometrically	
10	To determine the viscosity of a given sample of a lubricating oil using Redwood Viscometer	
11	To determine the flash & fire point of a given lubricating oil	
12	Determination of calorific value of a solid or liquid fuel.	
13	Determination of calorific value of a gaseous fuel	
14	Determination of % of O ₂ , CO ₂ , % CO in flue gas sample using Orsat apparatus.	
15	Proximate analysis of coal sample.	

Evaluation Scheme of Practical Examination:

Internal Evaluation (50 marks)



TEERTHANKER MAHAVEER UNIVERSITY

Delhi Road, Moradabad U.P-244001

AWARD LIST

(PRACTICAL/VIVA VOCE INTERNAL EXAMINATION)

PROGRAM B TECH(CSE)
SEMESTER-II
COURSE ENGINEERING CHEMISTRY LAB
COLLEGE

CCSIT

MAX MARKS : 50
SESSION : 2019-20
COURSE CODE: EAS263
DATE :

5/8/2020

Sl.No.	ENROLLMENT NUMBER	STUDENT'S NAME	ASSESSMENT BASIS				MARKS OBTAINED	
			EXP	VV	Attd	-	Figure	In words
			20	20	10	-	50	Fifty Only
1	TCA1909001	GOVIND KUMAR GUPTA	20	18	10		48	FORTY EIGHT
2	TCA1909002	NEHA SINGH	20	18	10		48	FORTY EIGHT
3	TCA1909003	SAIJAL JAIN	18	16	9		43	FORTY THREE
4	TCA1909004	AALI ABBASI	20	18	10		48	FORTY EIGHT
5	TCA1909005	ATISHAY JAIN	18	16	10		44	FORTY FOUR
6	TCA1909006	RISHABH CHAUHAN	20	18	9		47	FORTY SEVEN
7	TCA1909007	ANSHIKA JAIN	18	16	10		44	FORTY FOUR
8	TCA1909008	VIDHI JAIN	18	16	10		44	FORTY FOUR
9	TCA1909009	SNEHA JAIN	18	16	10		44	FORTY FOUR
10	TCA1909010	SHUBHAM JAIN	18	16	10		44	FORTY FOUR
11	TCA1909011	ABHISHEK SINGH	20	18	10		48	FORTY EIGHT
12	TCA1909012	SIMRAN JAIN	20	18	10		48	FORTY EIGHT
13	TCA1909013	ABHISHEK SAINI	18	16	10		44	FORTY FOUR
14	TCA1909014	AKSHAY VAISHAKHIYA	18	16	9		43	FORTY THREE
15	TCA1909015	TUSHAR JAIN	18	16	10		44	FORTY FOUR
16	TCA1909016	KAMAL JAIN	18	16	10		44	FORTY FOUR
17	TCA1909017	SILKI JAIN	20	18	10		48	FORTY EIGHT
18	TCA1909018	HARSH JAIN	20	18	9		47	FORTY SEVEN
19	TCA1909019	ZOHAIB HASAN KHAN	16	18	9		43	FORTY THREE
20	TCA1909020	PUNEET JAIN	18	16	9		43	FORTY THREE
21	TCA1909021	ARSHAN KHAN	16	16	9		41	FORTY ONE
22	TCA1909022	GARVIT JAIN	18	16	10		44	FORTY FOUR
23	TCA1909023	PRATEEK JAIN	18	16	10		44	FORTY FOUR
24	TCA1909024	NIKITA JAIN	20	18	10		48	FORTY EIGHT
25	TCA1909025	RASHI JAIN	18	16	10		44	FORTY FOUR
26	TCA1909026	SUPRABH GADIA	18	16	10		44	FORTY FOUR
27	TCA1909027	KANISHKA JAIN	18	16	10		44	FORTY FOUR
28	TCA1909028	HIRDESH JAIN	18	16	10		44	FORTY FOUR
29	TCA1909029	ANIKESH JAIN	18	16	10		44	FORTY FOUR
30	TCA1909030	AMAN JAIN	18	16	9		43	FORTY THREE

EXP - EXPERIMENT, VV - VIVA VOCE Attd- Attendance

COURSE FACULTY
NAME :

HOD
NAME :

DIRECTOR/PRINCIPAL
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Sl.No.	ENROLLMENT NUMBER	STUDENT'S NAME	ASSESSMENT BASIS				MARKS OBTAINED	
			EXP	VV	Attd	-	Figure	In words
			20	20	10	-	50	Fifty Only
61	TCA1909061	PRAGYA JAIN	20	18	10		48	FORTY EIGHT
62	TCA1909062	PRIYAM VARSHNEY	18	16	10		44	FORTY FOUR
63	TCA1909063	ANMOL TYAGI	18	15	9		42	FORTY TWO
64	TCA1909064	NEHA VERMA	20	18	10		48	FORTY EIGHT
65	TCA1909065	PRIYANSH JAIN	18	16	9		43	FORTY THREE
66	TCA1909066	RAHUL RAI	18	16	9		43	FORTY THREE

EXP - EXPERIMENT,

VV - VIVA VOCE

Attd- Attendance

COURSE FACULTY
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Faculty of Engineering

Department of Computer Science & Engineering

Course Code: EAS 263

Course Name: Engineering Chemistry (Lab)

Class: B.Tech (CSE)

Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
1	TCA1909001	GOVIND KUMAR GU		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
2	TCA1909002	NEHA SINGH		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
3	TCA1909003	SAIJAL JAIN		A N 1 N	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
4	TCA1909004	AALI ABBASI		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
5	TCA1909005	ATISHAY JAIN		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
6	TCA1909006	RISHABH CHAUHAN		P Y 1 Y	A N 2 N	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
7	TCA1909007	ANSHIKA JAIN		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
8	TCA1909008	VIDHI JAIN		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
9	TCA1909009	SNEHA JAIN		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y
10	TCA1909010	SHUBHAM JAIN		P Y 1 Y	P Y 2 Y	P Y 3 Y	P Y 4 Y	P Y 5 Y	P Y 6 Y	P Y 7 Y	P Y 8 Y	P Y 9 Y	P Y 10 Y



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Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
11	TCA1909011	ABHISHEK SINGH		P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y
12	TCA1909012	SIMRAN JAIN		P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y
13	TCA1909013	ABHISHEK SAINI		P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y
14	TCA1909014	AKSHAY VAISHAKHI		P Y	P Y	A N	P N	P Y	P Y	P Y	P Y	P Y	P Y
15	TCA1909015	TUSHAR JAIN		P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y
16	TCA1909016	KAMAL JAIN		P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y
17	TCA1909017	SILKI JAIN		P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y	P Y
18	TCA1909018	HARSH JAIN		P Y	P Y	P Y	A N	P Y	P Y	P Y	P Y	P Y	P Y
19	TCA1909019	ZOHAIB HASAN KHA		P Y	P Y	P Y	P N	A N	P Y	P Y	P Y	P Y	P Y
20	TCA1909020	PUNEET JAIN		P Y	P Y	P Y	P Y	P Y	A N	P Y	P Y	P Y	P Y



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Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
21	TCA1909021	ARSHAN KHAN		P	P	P	P	P	P	P	A	P	P
22	TCA1909022	GARVIT JAIN		P	P	P	P	P	P	P	P	P	P
23	TCA1909023	PRATEEK JAIN		P	P	P	P	P	P	P	P	P	P
24	TCA1909024	NIKITA JAIN		P	P	P	P	P	P	P	P	P	P
25	TCA1909025	RASHI JAIN		P	P	P	P	P	P	P	P	P	P
26	TCA1909026	SUPRABH GADIA		P	P	P	P	P	P	P	P	P	P
27	TCA1909027	KANISHKA JAIN		P	P	P	P	P	P	P	P	P	P
28	TCA1909028	HIRDESH JAIN		P	P	P	P	P	P	P	P	P	P
29	TCA1909029	ANIKESH JAIN		P	P	P	P	P	P	P	P	P	P
30	TCA1909030	AMAN JAIN		P	P	P	P	P	P	P	A	P	P



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Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
31	TCA1909031	ADITI JAIN		P	P	P	P	P	P	P	P	P	P
				1	2	3	4	5	6	7	8	9	10
32	TCA1909032	DHAWAL JAIN		P	P	P	P	P	P	P	P	A	P
				1	2	3	4	5	6	7	8	9	10
33	TCA1909033	HARSHIT JAIN		P	P	P	P	P	P	P	P	P	P
				1	2	3	4	5	6	7	8	9	10
34	TCA1909034	RITESH JAIN		P	P	P	P	P	P	P	P	P	P
				1	2	3	4	5	6	7	8	9	10
35	TCA1909035	SHASHANK GANGW		P	P	P	P	P	P	P	P	P	P
				1	2	3	4	5	6	7	8	9	10
36	TCA1909036	SHUBHAM SAINI		P	P	P	P	P	P	P	P	P	P
				1	2	3	4	5	6	7	8	9	10
37	TCA1909037	ATAUL MUSTAFA		P	P	P	P	P	P	P	P	P	P
				1	2	3	4	5	6	7	8	9	10
38	TCA1909038	ARYAN JAIN		A	A	A	A	A	A	A	A	A	A
				1	2	3	4	5	6	7	8	9	10
39	TCA1909039	SHUBH SAXENA		P	P	P	P	P	P	P	P	P	P
				1	2	3	4	5	6	7	8	9	10
40	TCA1909040	SANJEEV VASU		A	P	P	P	P	A	P	P	P	P
				1	2	3	4	5	6	7	8	9	10



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Sl. No	Roll No	Name	Date	1	2	3	4	5	6	7	8	9	10
41	TCA1909041	PIYUSH JAIN		P 1	A 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10
42	TCA1909042	SUCHITA JAIN		P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10
43	TCA1909043	HARSHIT UPADHYAY		P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10
44	TCA1909044	SONAM JAIN		P 1	P 2	A 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10
45	TCA1909045	ASHI JAIN		P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10
46	TCA1909046	ATISHA JAIN		P 1	P 2	P 3	A 4	P 5	P 6	P 7	P 8	P 9	P 10
47	TCA1909047	ZEESHAN AHMAD		A 1	P 2	P 3	P 4	P 5	P 6	A 7	P 8	P 9	P 10
48	TCA1909048	APURV JAIN		P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10
49	TCA1909049	PRIYANSHU JAIN		P 1	P 2	P 3	P 4	A 5	P 6	P 7	P 8	P 9	P 10
50	TCA1909050	MATEEN RAZA KHAN		P 1	P 2	P 3	P 4	P 5	P 6	P 7	P 8	P 9	P 10

