



ESTD : 2007

Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

An Autonomous Institution Under UGC

NAAC Accredited. Recognized Under 2(f) of UGC Act 1956

EAMCET CODE: INDI

Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.

JNTUH CODE: X3



COURSE FILE

ON

ENGINEERING CHEMISTRY LAB

Course Code - CH206BS

I B. Tech Semester-II

A.Y. 2022-2023

Prepared by

K.MOUNIKA

Asst. Professor

Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(V), Ibrahimpatnam (M) R.R. Dist-501 510

PRINCIPAL
Sri Indu Institute of Engineering & Tech.
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



ESTD : 2007



Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

An Autonomous Institution Under UGC

NAAC Accredited. Recognized Under 2(f) of UGC Act 1956

EAMCET CODE: INDI Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad. JNTUH CODE: X3

| | |
|---|---------------------------|
| Name of the Physical laboratory: | ENGINEERING CHEMISTRY LAB |
| Course code | CH206BS |
| Room No | D-103 & B-104 |
| Name of the lab incharge | K.MOUNIKA |
| Name of the faculty incharge | K.MOUNIKA |

Index of Lab File

| S. No. | Name of the content |
|--------|--|
| 1 | Institute vision and mission |
| 2 | Programme outcomes |
| 3 | Course Syllabus with Structure |
| 4 | Course Outcomes (CO) and CO-PO mapping |
| 5 | List of experiments and their CO, PO mapping |
| 6 | Time table |
| 7 | Model Practical End examination questions |
| 8 | Schedule of end practical examinations |
| 9 | List of examiners |
| 10 | Lab occupancy chart |
| 11 | Dos and Don'ts |
| 12 | Physical lab floor plan with area in Sq.m |
| 13 | Lab manual |
| 14 | CO-PO Attainments |



ESTD : 2007

Sri Indu Institute of Engineering and Technology (Autonomous)

(Formerly RVR Institute of Engineering & Technology)

An Autonomous Institution Under UGC

NAAC Accredited. Recognized Under 2(f) of UGC Act 1956

EAMCET CODE: INDI

Approved by AICTE, New Delhi, & Affiliated to JNTUH, Hyderabad.

JNTUH CODE: X3



INSTITUTE VISION & MISSION

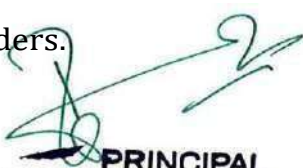
Vision:

To become a premier institute of academic excellence by providing the world class education that transforms individuals into high intellectuals, by evolving them as empathetic and responsible citizens through continuous improvement.

Mission:

- **IM1:** To offer outcome-based education and enhancement of technical and practical skills.
- **IM2:** To Continuous assess of teaching-learning process through institute-industry collaboration.
- **IM3:** To be a centre of excellence for innovative and emerging fields in technology development with state-of-art facilities to faculty and students' fraternity.
- **IM4:** To Create an enterprising environment to ensure culture, ethics and social responsibility among the stakeholders.


Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(VII) Ibrahimpatnam (M) R.R. Dist-501 510


PRINCIPAL
Sri Indu Institute of Engineering & Tect.
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

PROGRAMME OUTCOMES

PO1: Engineering Knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

PO2: Problem Analysis: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

PO3: Design / Development of Solutions: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

PO4: Conduct Investigations of Complex Problems: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

PO5: Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

PO6: The Engineer & Society: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

PO7: Environment & Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

PO9: Individual & Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10: Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, give and receive clear instructions.

PO11: Project Management & Finance: Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

PO12: Life-Long Learning: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda (V) Ibrahimpatnam (M) R.R. Dist-501 510



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

B.Tech. in COMPUTER SCIENCE AND ENGINEERING(AI&ML)

COURSE STRUCTURE

I YEAR SYLLABUS (BR22 Regulations)

Applicable from Academic Year: 2022-23 Batch

I Year I Semester

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------------|-------------|--|-----------|----------|-----------|-----------|
| 1. | MA101BS | Matrices and Calculus | 3 | 1 | 0 | 4 |
| 2. | AP102BS | Applied Physics | 3 | 1 | 0 | 4 |
| 3. | CS103ES | Programming for Problem Solving | 3 | 0 | 0 | 3 |
| 4. | ME102ES | Engineering Workshop | 0 | 1 | 3 | 2.5 |
| 5. | EN104HS | English for Skill Enhancement | 2 | 0 | 0 | 2 |
| 6. | CS106ES | Elements of Computer Science & Engineering | 0 | 0 | 2 | 1 |
| 7. | AP105BS | Applied Physics Laboratory | 0 | 0 | 3 | 1.5 |
| 8. | CS107ES | Programming for Problem Solving Laboratory | 0 | 0 | 2 | 1 |
| 9. | EN107HS | English Language and Communication Skills Laboratory | 0 | 0 | 2 | 1 |
| 10. | *MC101ES | Environmental Science | 3 | 0 | 0 | 0 |
| 11. | | Induction Programme | | | | |
| Total | | | 14 | 3 | 12 | 20 |

I Year II Semester

| S. No. | Course Code | Course Title | L | T | P | Credits |
|--------------|-------------|---|-----------|----------|-----------|-----------|
| 1. | MA201BS | Ordinary Differential Equations and Vector Calculus | 3 | 1 | 0 | 4 |
| 2. | CH203BS | Engineering Chemistry | 3 | 1 | 0 | 4 |
| 3. | ME201ES | Computer Aided Engineering Graphics | 1 | 0 | 4 | 3 |
| 4. | EE201ES | Basic Electrical Engineering | 2 | 0 | 0 | 2 |
| 5. | EC201ES | Electronic Devices and Circuits | 2 | 0 | 0 | 2 |
| 6. | CH206BS | Engineering Chemistry Laboratory | 0 | 0 | 2 | 1 |
| 7. | EE202ES | Basic Electrical Engineering Laboratory | 0 | 0 | 2 | 1 |
| 8. | CS201ES | Python Programming Laboratory | 0 | 1 | 2 | 2 |
| 9. | CS203ES | IT Workshop | 0 | 0 | 2 | 1 |
| Total | | | 11 | 3 | 12 | 20 |



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

ENGINEERING CHEMISTRY LABORATORY

(Course Code: CH206BS)

B.Tech. I Year II Sem.

L T P C

0 0 2 1

Prerequisites: Engineering Chemistry

Course Objectives: The course consists of experiments related to the principles of chemistry required for engineering student. The student will learn:

- Estimation of hardness of water to check its suitability for drinking purpose.
- Students are able to perform estimations of acids and bases using conductometry, potentiometry and pH metry methods.
- Students will learn to prepare polymers such as Bakelite and nylon-6 in the laboratory.
- Students will learn skills related to the lubricant properties such as saponification value, surface tension and viscosity of oils.

Course Outcomes: The experiments will make the student gain skills on:

- Determination of parameters like hardness of water and rate of corrosion of mild steel in various conditions.
- Able to perform methods such as conductometry, potentiometry and pH metry in order to find out the concentrations or equivalence points of acids and bases.
- Students are able to prepare polymers like bakelite and nylon-6.
- Estimations saponification value, surface tension and viscosity of lubricant oils.

List of Experiments:

I. Volumetric Analysis: Estimation of Hardness of water by EDTA Complexometry method.

II. Conductometry: Estimation of the concentration of an acid by Conductometry.

III. Potentiometry: Estimation of the amount of Fe^{+2} by Potentiometry.

IV. pH Metry: Determination of an acid concentration using pH meter.

V. Preparations:

1. Preparation of Bakelite.
2. Preparation Nylon – 6.

VI. Lubricants:

1. Estimation of acid value of given lubricant oil.
2. Estimation of Viscosity of lubricant oil using Ostwald's Viscometer.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

VII. Corrosion: Determination of rate of corrosion of mild steel in the presence and absence of inhibitor.

VIII. Virtual lab experiments

1. Construction of Fuel cell and its working.
2. Smart materials for Biomedical applications
3. Batteries for electrical vehicles.
4. Functioning of solar cell and its applications.

REFERENCE BOOKS:

1. Lab manual for Engineering chemistry by B. Ramadevi and P. Aparna, S Chand Publications, New Delhi (2022)
2. Vogel's text book of practical organic chemistry 5th edition
3. Inorganic Quantitative analysis by A.I. Vogel, ELBS Publications.
College Practical Chemistry by V.K. Ahluwalia, Narosa Publications Ltd. New De



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Website: <https://siiet.ac.in/>

COURSE OUTCOMES

Course Name: Engineering Chemistry Lab (C126)

At the End of the course, student will be able to

C126.1 Determination of parameters like hardness of water by the complexometric titrations
(Understanding L2)

C126.2 Students can able to perform the methods such as conductometry, pH metry to find out concentration of unknown solutions. (Applying L3)

C126.3 Students can determine the Potentiometry in order to find out the concentrations of acids and bases. (Applying L3)

C126.4 Students are able to synthesise Polymers-Bakelite & Nylon-6. (Applying L3)

C126.5 Students can estimate the saponification value and viscosity of the lubricants.
(Analyzing L4)

C126.6 They can able to demonstrate the rate of corrosion of mild steel in various conditions
(Understanding L2)

COs and POs & PSOs Mapping

High -3

Medium-2

Low-1

| Course Outcome | PO 1 | PO 2 | PO 3 | PO 4 | PO 5 | PO 6 | PO 7 | PO 8 | PO 9 | PO 10 | PO 11 | PO 12 | PSO 1 | PSO 2 |
|----------------|------|------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|
| C126.1 | 2 | 2 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| C126.2 | 2 | 2 | - | - | 1 | - | - | - | - | - | - | - | - | - |
| C126.3 | 2 | 1 | - | 1 | 1 | - | 1 | - | - | - | - | - | - | - |
| C126.4 | 2 | - | 2 | - | - | 1 | - | - | - | - | - | - | - | - |
| C126.5 | 2 | 1 | - | - | - | - | 1 | - | - | - | - | - | - | - |
| C126.6 | 2 | 1 | - | 1 | - | 1 | 1 | - | - | - | - | - | - | - |
| AVE | 2.00 | 1.4 | 2.00 | 1.0 | 1.0 | 1.0 | 1.0 | - | - | - | - | - | - | - |



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

MAPPING OF EXPERIMENT OUTCOMES WITH CO/PO'S/PSO

| EXPERIMENT OBJECTIVES | EXPERIMENT OUTCOMES | CO | PO'S |
|---|---|--------|-------------------------|
| 1.To estimate the total hardness of water byEDTA method. | The students will be able to analyze the nature of salts causing hardness and to solve the engineering problems arising during steam production in boilers. | C126.1 | PO1, PO2 ,PO7 |
| 2.To determine the strength ofthe strong acid bytitration with strong base conductometrically. | The student shall be able to analyze the variation of conductance values of given acid with addition of strong base using conductivity meter. | C126.2 | PO1, PO2 PO5 |
| 3.To estimate the Fe ⁺² by potentiometry using KMnO ₄ . | The student shall be able to Analyze the variation of EMF values of given acid with addition of KMnO ₄ using potentiometer. | C126.3 | PO1, PO2, PO4, PO5, PO7 |
| 4.To estimate the amount of HCl present in the given volume of test solution by P ^H metry. | The student shall be able to find out the concentrations of acids and bases. | C126.2 | PO1, PO2 PO5 |
| 5.To prepare Bakelite polymer using Phenoland Formaldehyde. | The student shall be able to prepare the polymer of Bakelite | C126.4 | PO1, PO3 PO6 |
| 6.To prepare Nylon-6,6 polymer using adipoyl chloride and hexamethylenediammine. | The student shall be able to prepare the polymer of Nylon-6,6. | C126.4 | PO1, PO3 PO6 |
| 7.To determine the acid value of Coconut oil. | The student shall be able to identity and calculate the acid values of coconut oil. | C126.5 | PO1, PO2 PO7 |



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

| | | | |
|---|--|--------|-----------------------------|
| 8. To determine the viscosity of the given coconut oil and ethanol. | The students shall be able to Determine and calculate the Viscosity coefficient values of coconut oil and ethanol. | C126.5 | PO1, PO2 PO7 |
| 9. To determine the rate of corrosion of mild steel in acidic medium in the absence and presence of an inhibitor and calculate the efficiency of the Inhibitor. | The student can able to understand the efficiency and function of inhibitor in the Process of corrosion. | C126.6 | PO1, PO2 PO4, PO6 PO7 |
| ADDITIONAL EXPERIMENTS | | | |
| 10. To determine the strength of the weak acid by titration with strong base conductometrically. | The student shall be able to analyze the variation of conductance values of given weak acid with addition of strong base using conductivity meter. | C126.2 | PO1, PO2 PO5 |
| 11. To determine the surface tension of a given liquid at room temperature using stalagmometer by drop number method. | The student shall be able to determine and calculate the surface tension values of reference liquid and given liquid | C126.5 | PO1, PO2 PO7 |



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501 510

<https://siiet.ac.in/>

Class:AI&ML-A

Semester: II W.E.F-03-04-2023

LH:-D-105

| | I 9:40- 10:30 | II 10:30 - 11:20 | III 11:20- 12:10 | 12:10- 12:45 | IV 12.45- 1.35 | V 1.35- 2.25 | VI 2.25- 3.15 | VII 3.15-4.00 |
|-----|---------------------|------------------------|------------------------|-----------------------|----------------------|--------------------|---------------------|------------------|
| MON | | EC BEE LAB | | L U N C H | EC | EDC | BEE | PYTHON(T) |
| TUE | EDC | ODE | EC | | PYTHON LAB | | | ODE(T)/EC(T) |
| WED | CAEG PRACTICE | | | | BEE | ODE | EDC | EDC(T)/ BEE(T) |
| THU | BEE | ODE | BEE | | ITWS LAB | | | EC(T)/ODE(T) |
| FRI | | EC BEE LAB | | | ODE | EC | EDC | LIBRARY |
| SAT | BEE | ODE | EC | | CAEG PRACTICE | | | BEE(T)/EDC(T) |

| Course Code | Course Name | Name of the Faculty | Course Code | Course Name | Name of the Faculty |
|-------------|---|---------------------|-------------|---|-------------------------------|
| MA201BS | ODE-Ordinary Differential Equations & Vector Calculus | V.SRINIVAS | CH206BS | EC LAB Engineering Chemistry Laboratory | Dr.D.PREMALATHA/ K.MOUNIKA |
| CH203BS | EC-Engineering Chemistry | Dr.D.PREMALATHA | EE202ES | BEE LAB-Basic Electrical Engineering Laboratory | K.RAJASHEKAR/S. NISCHALA |
| ME201ES | CAEG-Computer Aided Engineering Graphics | M.YADHAGIRI | CS201ES | PYTHON Programming Laboratory | M.TEJASWI/P.BALU |
| EE201ES | BEE-Basic Electrical Engineering | K.RAJASHEKAR | CS203ES | ITWS-IT Workshop | N.KEERTHI CHANDANA/B.SWATHI |
| EC201ES | EDC-Electronic Devices & Circuits | P.ARUNA KUMARI | | | |

[Signature]
Class In-Charge

[Signature]
Time Table Coordinator

[Signature]
Head of The Department



Sri Indu Institute of Engg. & Tech
Main Road, Sheriguda(V)
Ibrahimpatnam(M), R.P. Dist.,
Telangana-501 510



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

UGC Autonomous Institution, Accredited by NAAC with A+ Grade

Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)
Sheriguda(V), Ibrahimpatnam(M), R.R Dist., Telangana - 501 510

X3

BR22

Lab External Question paper

Year & Semester: I-II

Branch: AI&ML-A

Subject Name: Engineering Chemistry Lab

Faculty Name: K.MOUNIKA

EXTERNAL EXAM QUESTION PAPER

1. Estimate the total hardness of water by complexometric method using EDTA. [CREATING L6]
2. Estimate of an HCL by conductometric titration. [EVALUATING L5]
3. Estimate of Fe⁺² by Potentiometry using by kmno₄. [EVALUATING L5]
4. Determine the acid concentration by using PH meter. [EVALUATING L5]
5. Estimate of an acetic acid by conductometric titration. [EVALUATING L5]
6. Determine the viscosity of a given liquid by using Ostwald's viscometer. [EVALUATING L5]
7. Write about preparation of Bakelite. [REMEMBARING L1]
8. Write about preparation of Nylon 6,6. [REMEMBARING L1]
9. Determine the acid value of coconut oil. [REMEMBARING L1]
10. Determine the surface tension of a given liquid by using stalagmometer. [REMEMBARING L1]



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501 510

<https://siiet.ac.in/>

EC Lab External Time Table Examination Branch

A.Y.: 2022-23

SEM-II

| DATE | Day | Branch | Session | HT.No | Total No of Students |
|-----------|-----------|-------------|---------|--|----------------------|
| 21-8-2023 | MONDAY | ECE & CIVIL | FN | 22X31A0401 TO 22X31A0464 22X31A0101 TO 22X31A0103 | 67 |
| 22-8-2023 | TUESDAY | IOT | FN | 22X31A6901 TO 22X31A6963 | 63 |
| 23-8-2023 | WEDNESDAY | AI&ML-B | FN | 22X31A6651 TO 22X31A6697 | 47 |
| 24-8-2023 | THURSDAY | AI&ML-A | FN | 22X31A6601 TO 22X31A6650 | 50 |
| 25-8-2023 | FRIDAY | AI&DS | FN | 22X31A7201 TO 22X31A7264 | 64 |

FN: 9:40am to 12:25pm


Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(V) Ibrahimpatnam (M) R.R. Dist-501 510


PRINCIPAL
Sri Indu Institute of Engineering & Tech.
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(UGC AUTONOMOUS INSTITUTION)

Accredited by NAAC A+ Grade, Recognized under 2(f) of UGC Act 1956.

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda(V), Ibrahimpatnam(M), Ranga Reddy Dist., Telangana – 501510



EC Lab External Time Table Examination Branch

A.Y:2022-2023

SEM-II

| Date | Day | Branch | Session | HT.NO | Total No. of Students | Remarks | |
|------------|-----------|-------------|---------|--|-----------------------|-------------------|--|
| | | | | | | Internal examiner | External examiner |
| 21-08-2023 | MONDAY | ECE & CIVIL | FN | 22X31A0401 TO 22X31A0464 22X31A0101 TO 22X31A0103 | 67 | O.SUBHASHINI | D.Swathi 7032248997 Asst.prof BIET |
| 22-08-2023 | TUESDAY | IOT | FN | 22X31A6901 TO 22X31A6963 | 63 | V.MOUNIKA | Dr.Nagaveni 9959073712 Assoc.prof BIET |
| 23-08-2023 | WEDNESDAY | AI&ML-B | FN | 22X31A6651 TO 22X31A6697 | 47 | O.SUBHASHINI | Dr.Rinki kumar 7488730602 Asst.prof BIET |
| 24-08-2023 | THURSDAY | AI&ML-A | FN | 22X31A6601 TO 22X31A6650 | 50 | V.MOUNIKA | Dr.Litun swain 9489576721 Asst.prof BIET |
| 25-08-2023 | FRIDAY | AI&DS | FN | 22X31A7201 TO 22X31A7264 | 64 | K.MOUNIKA | Dr.Shahroora sameen 9149454924 Asst.prof BIET |

FN: 9:40AM to 12:25PM


Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(V), Ibrahimpatnam (M), R.R. Dist-501510


PRINCIPAL
Sri Indu Institute of Engineering & Tech
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

LAB OCCUPANCY CHART

ENGINEERING CHEMISTRY LAB

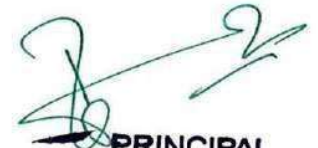
Class :I B.Tech

Semister-II

LH:B-104

| | I 9:40-10:30 | II 10:30 -11:20 | III 11:20-12:10 | 12:10- 12.45 | IV 12.45-1.35 | V 1.35-2.25 | VI 2.25-3.15 | VII 3.15- 4.00 |
|-----|------------------------|--------------------|--------------------|-----------------------|------------------------|----------------|-----------------|----------------------|
| MON | I BTECH II SEM AI&ML-A | | | L U N C H | | | | |
| TUE | I BTECH II SEM AI&DS | | | | I BTECH II SEM AI&ML-B | | | |
| WED | I BTECH IISEM ECE | | | | I BTECH II SEM IOT | | | |
| THU | MAINTAINANCE | | | | | | | |
| FRI | | | | | | | | |
| SAT | | | | | | | | |


Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(V), Ibrahimpatnam (M) R.R. Dist-501 510


PRINCIPAL
Sri Indu Institute of Engineering & Tech,
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

LAB OCCUPANCY CHART

ENGINEERING CHEMISTRY LAB

Class :I B.Tech

Semester-II

LH: D-103

| | I 9:40-10:30 | II 10:30 -11:20 | III 11:20-12:10 | 12:10- 12.45 | IV 12.45-1.35 | V 1.35-2.25 | VI 2.25-3.15 | VII 3.15- 4.00 |
|-----|-----------------|------------------------|--------------------|-----------------|------------------------|----------------|-----------------|----------------------|
| MON | MAINTAINANCE | | | | | | | |
| TUE | | | | | | | | |
| WED | | | | | | | | |
| THU | | | | | I BTECH II SEM AI&DS | | | |
| FRI | | I BTECH II SEM AI&ML-A | | | I BTECH IISEM ECE | | | |
| SAT | | I BTECH II SEM IOT | | | I BTECH II SEM AI&ML-B | | | |


Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda(V), Ibrahimpatnam (M) R.R. Dist-501 510


PRINCIPAL
Sri Indu Institute of Engineering & Tech,
Sheriguda(VIII), Ibrahimpatnam
R.R. Dist. Telangana-501 510.



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

ENGINEERING CHEMISTRY LAB

Do's

1. Attend all the practical classes with
 - a) Observation note book
 - b) Chemistry practical manual
 - c) A neat hand kerchief
2. Follow the instructions of your Lecturer carefully.
3. Read the experiment perfectly before starting.
4. Take the required apparatus and clean them.
5. The observations should be in noted in the note book immediately.
6. Clean the apparatus immediately after the experiment and return to the concerned lab incharge.
7. Do the calculation and get the signature of Lecturer on the observation note book.
8. Always throw the pieces of papers, broken glass pieces etc., in a waste basket only.
9. The observations and calculations should be recorded neatly in the record book and submit the same of the lecturer.

Don'ts

1. Don't handle the apparatus roughly; it leads in damage (or) breakage.
2. Don't perform the experiment with incomplete knowledge, it may lead you in confusion.
3. Don't use excess amount of chemicals (or) reagents.
4. Don't consult your fellow student, if you have doubt in the experiment, consult Lecturer only.
5. Don't throw any solid matter in the sink. Don't waste the chemical or reagent.
6. Don't taste any chemical and inhale poisonous gases.
7. Don't waste the water. If it is not required, the tap must be closed.
8. Don't leave the laboratory unless your work bench is clean and all the apparatus is returned to the attender.

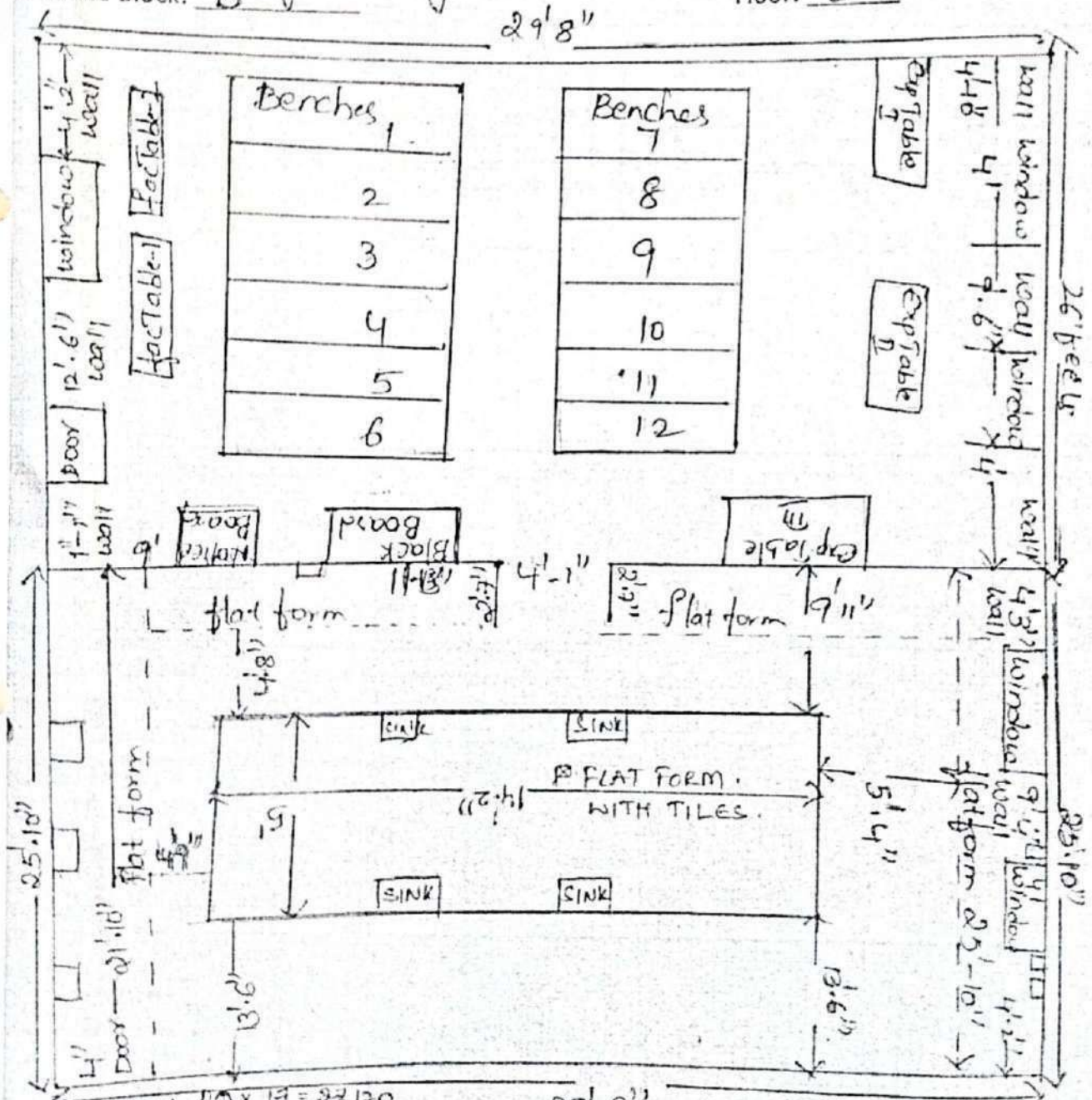


SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY
 Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501 510
DEPARTMENT OF HUMANITIES AND SCIENCES

PHYSICAL LAB FLOOR PLAN

NAME: Engineering chemistry
 Block of the Block: B V

ROOM NO: B-104
 Floor: I



Lab Area (ln. Sqm.) = $10 \times 17 = 27.170$
 Lab Area (ln. Sft.) = $30 \times 52 = 1560$

LAB In charge

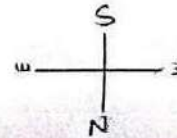
Head of the Department



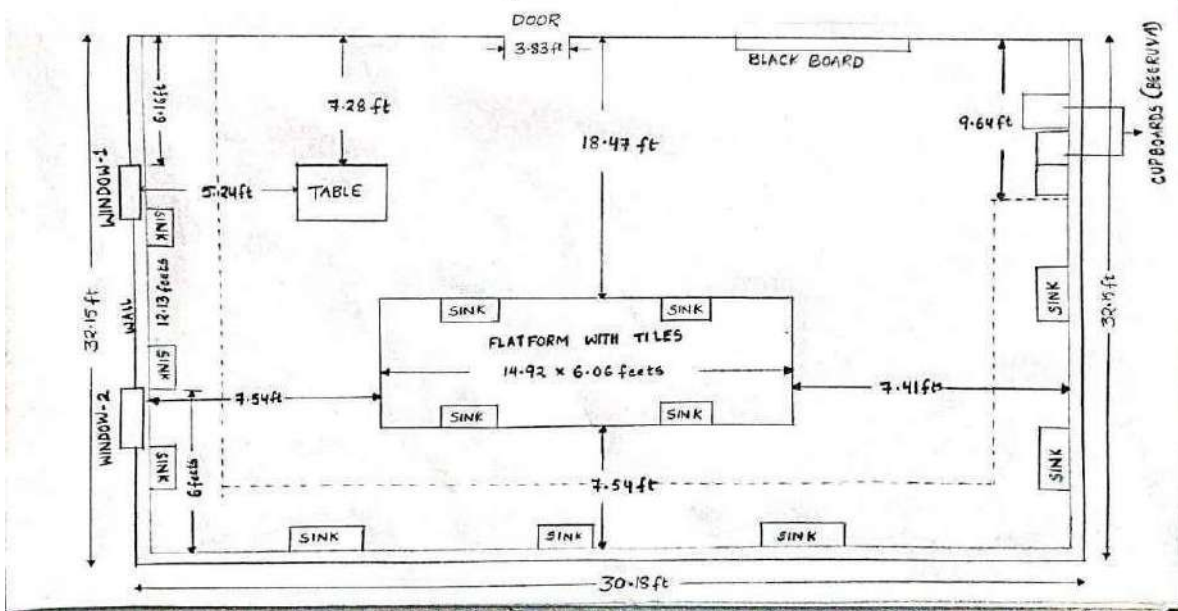
PHYSICAL LAB FLOOR-1 PLAN

ROOM NO - D103

CHEMISTRY LAB



Window dimensions + 4x4 feet



Lab area in sq.m = $9.198 \times 9.80 = 90.14$

Lab area in sq.ft = $30.18 \times 32.15 = 970.287$

LAB in charge

Head of the Department
Department of H&S
SRI INDU INSTITUTE OF ENGG & TECH
Sheriguda (V), Ibrahimpatnam (M), R.R. Dist-501510

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

(An Autonomous Institution under UGC)

Accredited by NAAC with A+ Grade, Recognized under 2(f) of UGC Act 1956

(Approved by AICTE, New Delhi and Affiliated to JNTUH, Hyderabad)

Khalsa Ibrahimpatnam, Sheriguda (V), Ibrahimpatnam (M), Ranga Reddy Dist., Telangana – 501 510

Lab manual link

<https://drive.google.com/file/d/1QjP0tK0jpATEqLV1Wcww6fUdJzJ8mwi9/view?usp=sharing>

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOL

Department of Humanities and Sciences



Course Outcome Attainment (Internal Examination-I)

Name of the faculty : K.MOUNIKA Academic Year: 2022-23
 Branch & Section: AIML-A Examination: INTERNAL -I
 Lab Course Name: ENGINEERINGCHEMISTRY Year/semester I/II

| S.No | HT No. | R+O+A | V+V | E+E+R |
|--------------------------|------------|-----------|-----------|-----------|
| Max. Marks ==> | | 10 | 10 | 10 |
| 1 | 22X31A6601 | 10 | 8 | 9 |
| 2 | 22X31A6602 | 10 | 9 | 10 |
| 3 | 22X31A6603 | 9 | 8 | 10 |
| 4 | 22X31A6604 | 10 | 8 | 10 |
| 5 | 22X31A6605 | 8 | 6 | 9 |
| 6 | 22X31A6606 | 7 | 8 | 8 |
| 7 | 22X31A6607 | 10 | 10 | 10 |
| 8 | 22X31A6608 | 9 | 8 | 10 |
| 9 | 22X31A6609 | 10 | 8 | 10 |
| 10 | 22X31A6610 | A | A | A |
| 11 | 22X31A6611 | A | A | A |
| 12 | 22X31A6612 | 10 | 8 | 10 |
| 13 | 22X31A6613 | 10 | 7 | 10 |
| 14 | 22X31A6614 | 10 | 9 | 10 |
| 15 | 22X31A6615 | 6 | 8 | 10 |
| 16 | 22X31A6616 | 10 | 7 | 10 |
| 17 | 22X31A6617 | 10 | 8 | 10 |
| 18 | 22X31A6618 | 9 | 8 | 10 |
| 19 | 22X31A6619 | 2 | 8 | 10 |
| 20 | 22X31A6620 | 5 | 8 | 10 |
| 21 | 22X31A6621 | 8 | 5 | 10 |
| 22 | 22X31A6622 | 10 | 9 | 10 |
| 23 | 22X31A6623 | 10 | 7 | 10 |
| 24 | 22X31A6624 | 9 | 7 | 10 |
| 25 | 22X31A6625 | 9 | 8 | 10 |
| 26 | 22X31A6626 | 10 | 10 | 10 |
| 27 | 22X31A6627 | 10 | 10 | 10 |
| 28 | 22X31A6628 | 10 | 10 | 10 |
| 29 | 22X31A6629 | 9 | 4 | 10 |
| 30 | 22X31A6630 | 10 | 7 | 10 |
| 31 | 22X31A6631 | 10 | 10 | 10 |
| 32 | 22X31A6632 | 10 | 4 | 10 |
| 33 | 22X31A6633 | 8 | 4 | 10 |
| 34 | 22X31A6634 | 9 | 5 | 10 |
| 35 | 22X31A6635 | 10 | 4 | 10 |
| 36 | 22X31A6636 | 9 | 6 | 10 |
| 37 | 22X31A6637 | 9 | 2 | 9 |
| 38 | 22X31A6638 | 9 | 7 | 10 |
| 39 | 22X31A6639 | 10 | 10 | 10 |
| 40 | 22X31A6640 | 4 | 3 | 8 |
| 41 | 22X31A6641 | 10 | 7 | 10 |
| 42 | 22X31A6642 | 9 | 7 | 10 |
| 43 | 22X31A6643 | 10 | 4 | 10 |
| 44 | 22X31A6644 | A | A | A |
| 45 | 22X31A6645 | 10 | 4 | 10 |
| 46 | 22X31A6646 | 9 | 4 | 10 |
| 47 | 22X31A6647 | 10 | 4 | 10 |
| 48 | 22X31A6648 | 10 | 4 | 10 |
| 49 | 22X31A6649 | 10 | 4 | 10 |
| 50 | 22X31A6650 | 10 | 4 | 10 |

R+O+A : RECORD+OBSERVATION+ATTANDANCE

V+V: VIVA VOICE

E+E+R:EXPERIMENT WRITE UP+EXECUTION+RESULT

| | | | | | | | | |
|--|-------------------------|--------------|----------------|--------------|-------------------------|-----|--|--|
| Target set by the faculty / HoD | 6.00 | 6.00 | 6.00 | | | | | |
| Number of students performed above the target | 44 | 32 | 47 | | | | | |
| Number of students attempted | 50 | 50 | 50 | | | | | |
| Percentage of students scored more than target | 88% | 64% | 94% | | | | | |
| <u>CO Mapping with Exam Questions:</u> | | | | | | | | |
| CO - 1 | Y | Y | Y | | | | | |
| CO - 2 | Y | Y | Y | | | | | |
| CO - 3 | Y | Y | Y | | | | | |
| CO - 4 | | | | | | | | |
| CO - 5 | | | | | | | | |
| CO - 6 | | | | | | | | |
| <u>CO Attainment based on Exam Questions:</u> | | | | | | | | |
| CO - 1 | 88% | 88% | 94% | | | | | |
| CO - 2 | 88% | 88% | 94% | | | | | |
| CO - 3 | 88% | 88% | 94% | | | | | |
| CO - 4 | | | | | | | | |
| CO - 5 | | | | | | | | |
| CO - 6 | | | | | | | | |
| CO | Intrnal practica | E+E+R | Overall | Level | Attainment Level | | | |
| CO-1 | 88% | 94% | 91% | 3 | 1 | 40% | | |
| CO-2 | 88% | 94% | 91% | 3 | 2 | 50% | | |
| CO-3 | 88% | 94% | 91% | 3 | 3 | 60% | | |
| CO-4 | | | | | | | | |
| CO-5 | | | | | | | | |
| CO-6 | | | | | | | | |
| Attainment (Internal 1 Examination) = | | | | 3 | | | | |

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences



Course Outcome Attainment (Internal Examination-2)

| | | | |
|-----------------------|-----------------------|----------------|-------------|
| Name of the faculty : | K.MOUNIKA | Academic Year: | 2022-23 |
| Branch & Section: | AIML-A | Examination: | INTERNAL II |
| Lab Course Name: | ENGINEERING CHEMISTRY | Year/semester | I/II |

| S.No | HT No. | R+O+A | V+V | E+E+R | ppt |
|----------------|------------|-------|-----|-------|-----|
| Max. Marks ==> | | 10 | 10 | 10 | 10 |
| 1 | 22X31A6601 | 10 | 8 | 10 | 10 |
| 2 | 22X31A6602 | 10 | 10 | 10 | 10 |
| 3 | 22X31A6603 | 9 | 8 | 10 | 10 |
| 4 | 22X31A6604 | 9 | 8 | 9 | 10 |
| 5 | 22X31A6605 | 9 | 7 | 10 | 10 |
| 6 | 22X31A6606 | 9 | 6 | 10 | 10 |
| 7 | 22X31A6607 | 10 | 10 | 10 | 10 |
| 8 | 22X31A6608 | 10 | 9 | 10 | 10 |
| 9 | 22X31A6609 | 10 | 7 | 10 | 10 |
| 10 | 22X31A6610 | 8 | 8 | 9 | 10 |
| 11 | 22X31A6611 | A | A | A | A |
| 12 | 22X31A6612 | 10 | 9 | 10 | 10 |
| 13 | 22X31A6613 | 9 | 8 | 10 | 10 |
| 14 | 22X31A6614 | 10 | 9 | 10 | 10 |
| 15 | 22X31A6615 | 8 | 7 | 10 | 10 |
| 16 | 22X31A6616 | 9 | 8 | 10 | 10 |
| 17 | 22X31A6617 | 10 | 10 | 10 | 10 |
| 18 | 22X31A6618 | 10 | 10 | 10 | 10 |
| 19 | 22X31A6619 | 9 | 7 | 9 | 10 |
| 20 | 22X31A6620 | 9 | 7 | 9 | 10 |
| 21 | 22X31A6621 | 8 | 6 | 10 | 10 |
| 22 | 22X31A6622 | 10 | 10 | 10 | 10 |
| 23 | 22X31A6623 | 9 | 9 | 10 | 10 |
| 24 | 22X31A6624 | 8 | 8 | 10 | 10 |
| 25 | 22X31A6625 | 9 | 8 | 10 | 10 |
| 26 | 22X31A6626 | 10 | 8 | 10 | 10 |
| 27 | 22X31A6627 | 10 | 8 | 10 | 10 |
| 28 | 22X31A6628 | 10 | 7 | 10 | 10 |
| 29 | 22X31A6629 | 10 | 5 | 10 | 10 |
| 30 | 22X31A6630 | 10 | 9 | 10 | 10 |
| 31 | 22X31A6631 | 9 | 8 | 10 | 10 |
| 32 | 22X31A6632 | 7 | 6 | 7 | 10 |
| 33 | 22X31A6633 | 7 | 6 | 7 | 10 |
| 34 | 22X31A6634 | 10 | 9 | 10 | 10 |
| 35 | 22X31A6635 | 9 | 6 | 10 | 10 |
| 36 | 22X31A6636 | 10 | 8 | 10 | 10 |
| 37 | 22X31A6637 | 8 | 5 | 7 | 10 |
| 38 | 22X31A6638 | 10 | 6 | 10 | 10 |
| 39 | 22X31A6639 | 10 | 7 | 10 | 10 |
| 40 | 22X31A6640 | A | A | A | 10 |
| 41 | 22X31A6641 | 10 | 4 | 10 | 10 |
| 42 | 22X31A6642 | 9 | 3 | 9 | 10 |
| 43 | 22X31A6643 | 10 | 4 | 10 | 10 |
| 44 | 22X31A6644 | 6 | 4 | 5 | 10 |
| 45 | 22X31A6645 | 10 | 8 | 10 | 10 |
| 46 | 22X31A6646 | 10 | 6 | 8 | 10 |
| 47 | 22X31A6647 | 10 | 6 | 10 | 10 |
| 48 | 22X31A6648 | 10 | 7 | 10 | 10 |
| 49 | 22X31A6649 | 10 | 7 | 10 | 10 |
| 50 | 22X31A6650 | 9 | 9 | 10 | 10 |

R+O+A : RECORD+OBSERVATION+ATTANDANCE

V+V: VIVA VOICE

E+E+R:EXPERIMENT WRITE UP+EXECUTION+RESULT

| | | | | | | | | |
|--|------|------|------|------|--|--|--|--|
| Target set by the faculty / HoD | 6.00 | 6.00 | 6.00 | 6.00 | | | | |
| Number of students performed above the target | 48 | 42 | 47 | 49 | | | | |
| Number of students attempted | 50 | 50 | 50 | 50 | | | | |
| Percentage of students scored more than target | 96% | 84% | 94% | 98% | | | | |

CO Mapping with Exam Questions:

| | | | | |
|--------|---|---|---|---|
| CO - 1 | | | | |
| CO - 2 | | | | |
| CO - 3 | | | | |
| CO - 4 | Y | Y | Y | Y |
| CO - 5 | Y | Y | Y | Y |
| CO - 6 | Y | Y | Y | Y |

CO Attainment based on Exam Questions:

| | | | | |
|--------|-----|-----|-----|-----|
| CO - 1 | | | | |
| CO - 2 | | | | |
| CO - 3 | | | | |
| CO - 4 | 96% | 84% | 94% | 94% |
| CO - 5 | 96% | 84% | 94% | 94% |
| CO - 6 | 96% | 84% | 94% | 94% |

| CO | Intrnal practica | E+E+R | ppt | Overall | Level | Attainment Level | |
|--|------------------|-------|-----|---------|----------|------------------|-----|
| CO-1 | | | | | | 1 | 40% |
| CO-2 | | | | | | 2 | 50% |
| CO-3 | | | | | | 3 | 60% |
| CO-4 | 90% | 94% | 94% | 93% | 3 | | |
| CO-5 | 90% | 94% | 94% | 93% | 3 | | |
| CO-6 | 90% | 94% | 94% | 93% | 3 | | |
| Attainment (Internal 2 Examination) = | | | | | 3 | | |



SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY

Department of Humanities and Sciences

Course Outcome Attainment (University Examinations)

| Name of the faculty : | | K.MOUNKA | | Academic Year: | | 2022-23 | |
|--|-------------|-----------------------|----------|-------------------------|-------------|-------------------|--|
| Branch & Section: | | AIML-A | | Year / Semester: | | I/II | |
| Lab Course Name: | | ENGINEERING CHEMISTRY | | | | | |
| S.No | Roll Number | Marks Secured | | S.No | Roll Number | Marks Secured | |
| 1 | 22X31A6601 | 58 | | 35 | 22X31A6635 | 50 | |
| 2 | 22X31A6602 | 60 | | 36 | 22X31A6636 | 54 | |
| 3 | 22X31A6603 | 50 | | 37 | 22X31A6637 | 50 | |
| 4 | 22X31A6604 | 51 | | 38 | 22X31A6638 | 50 | |
| 5 | 22X31A6605 | 55 | | 39 | 22X31A6639 | 59 | |
| 6 | 22X31A6606 | 50 | | 40 | 22X31A6640 | 47 | |
| 7 | 22X31A6607 | 60 | | 41 | 22X31A6641 | 54 | |
| 8 | 22X31A6608 | 58 | | 42 | 22X31A6642 | 55 | |
| 9 | 22X31A6609 | 59 | | 43 | 22X31A6643 | 35 | |
| 10 | 22X31A6610 | 35 | | 44 | 22X31A6644 | 58 | |
| 11 | 22X31A6612 | 55 | | 45 | 22X31A6645 | 58 | |
| 12 | 22X31A6613 | 55 | | 46 | 22X31A6646 | 56 | |
| 13 | 22X31A6614 | 60 | | 47 | 22X31A6647 | 59 | |
| 14 | 22X31A6615 | 52 | | 48 | 22X31A6648 | 59 | |
| 15 | 22X31A6616 | 60 | | 49 | 22X31A6649 | 55 | |
| 16 | 22X31A6617 | 54 | | 50 | 22X31A6650 | 58 | |
| 17 | 22X31A6618 | 57 | | | | | |
| 18 | 22X31A6619 | 35 | | | | | |
| 19 | 22X31A6620 | 53 | | | | | |
| 20 | 22X31A6621 | 35 | | | | | |
| 21 | 22X31A6622 | 60 | | | | | |
| 22 | 22X31A6623 | 58 | | | | | |
| 23 | 22X31A6624 | 53 | | | | | |
| 24 | 22X31A6625 | 56 | | | | | |
| 25 | 22X31A6626 | 60 | | | | | |
| 26 | 22X31A6627 | 60 | | | | | |
| 27 | 22X31A6628 | 57 | | | | | |
| 28 | 22X31A6629 | 52 | | | | | |
| 29 | 22X31A6630 | 60 | | | | | |
| 30 | 22X31A6631 | 60 | | | | | |
| 31 | 22X31A6632 | 52 | | | | | |
| 32 | 22X31A6633 | 45 | | | | | |
| 33 | 22X31A6634 | 55 | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Class Average mark | | | 54 | Attainment Level | | % students | |
| Number of students performed above the target | | | 32 | 1 | | 40% | |
| Number of successful students | | | 49 | 2 | | 50% | |
| Percentage of students scored more than target | | | 65% | 3 | | 60% | |
| Attainment level | | | 3 | | | | |

SRI INDU INSTITUTE OF ENGINEERING AND TECHNOLOGY



Department of Humanities and Sciences

Course Outcome Attainment

| | | | |
|---------------------|-----------------------|------------------|---------|
| Name of the faculty | K.MOUNIKA | Academic Year: | 2022-23 |
| Branch & Section: | AIML-A | Year / Semester: | I/II |
| Lab Course Name: | ENGINEERING CHEMISTRY | | |

| Course Outcomes | 1st Internal Exam | 2nd Internal Exam | Internal Exam | University Exam | Attainment Level |
|--|-------------------|-------------------|---------------|-----------------|------------------|
| CO1 | 3.00 | | 3.00 | 3.00 | 3.00 |
| CO2 | 3.00 | | 3.00 | 3.00 | 3.00 |
| CO3 | 3.00 | | 3.00 | 3.00 | 3.00 |
| CO4 | | 3.00 | 3.00 | 3.00 | 3.00 |
| CO5 | | 3.00 | 3.00 | 3.00 | 3.00 |
| CO6 | | 3.00 | 3.00 | 3.00 | 3.00 |
| Internal & University Attainment: | | | 3.00 | 3.00 | |
| Weightage | | | 70% | 30% | |
| CO Attainment for the course (Internal, University) | | | 2.10 | 0.90 | |
| CO Attainment for the course (Direct Method) | | | 3.00 | | |

| | |
|--|-------------|
| Overall course attainment level | 3.00 |
|--|-------------|

SRI INDU INSTITUTE OF ENGINEERING & TECHNOLOGY

Department of Humanities and Sciences

Program Outcome Attainment (from Course)

Name of Faculty: K.MOUNIKA Academic Year: 2022-23
 Branch & Section: AIML-A Year / Semester: I/II
 Course Name: ENGINEERING CHEMISTRY

CO-PO mapping

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 | PSO1 | PSO2 |
|---------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|------|------|------|------|------|
| CO1 | 2 | 2 | | | | | 1 | | | | | | | |
| CO2 | 2 | 2 | | | 1 | | | | | | | | | |
| CO3 | 2 | 1 | | 1 | 1 | | 1 | | | | | | | |
| CO4 | 2 | | 2 | | | 1 | | | | | | | | |
| CO5 | 2 | 1 | | | | | 1 | | | | | | | |
| CO6 | 2 | 1 | | 1 | | 1 | 1 | | | | | | | |
| Course | 2.00 | 1.40 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | | | | | | | |

Note : Fill your CO-PO Mapping of your respective labs

| CO | Course Outcome Attainment |
|--|---------------------------|
| | 3.00 |
| CO1 | 3.00 |
| CO2 | 3.00 |
| CO3 | 3.00 |
| CO4 | 3.00 |
| CO5 | 3.00 |
| CO6 | 3.00 |
| Overall course attainment level | 3.00 |

PO-ATTAINMENT

| | PO1 | PO2 | PO3 | PO4 | PO5 | PO6 | PO7 | PO8 | PO9 | PO10 | PO11 | PO12 |
|---------------|------|------|------|------|------|------|------|-----|-----|------|------|------|
| CO Attainment | 2.00 | 1.40 | 2.00 | 1.00 | 1.00 | 1.00 | 1.00 | | | | | |

CO contribution to PO - 33%, 67%, 100% (Level 1/2/3)