BOARD OF STUDIES MEETING (Online)

CHEMISTRY DEPARTMENT

Agenda for Board of Studies meeting of Chemistry Department, Swarnandhra College of Engineering & Technology (Autonomous) on **13.10.2023 at 3:30 PM**

1. Introduction of Members
2. Finalization of Chemistry and Engineering Chemistry and Laboratory Courses Syllabus to be taught by Chemistry Department of Basic Sciences and Humanities from the Academic Year 2020-21 onwards.
3. Finalization of Model Paper and list of Paper Setters
4. Any other matter with the permission of the chair.

CHEMISTRY:

https://zoom.us/rec/share/DIRm4ARXY8rSc-N43sURo8JV7APAAjYkpDETEkyzFiV0FpqvWmX2MIiVs6E6Zo0V.xcLEuTez-kj4fumQY?startTime=1697192000000

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SWARNANDHRA COLLEGE OF ENGINEERING & TECHNOLOGY

AUTONOMOUS
Accredited by National Board of Accreditation, AICTE, New Delhi
Accredited by NAAC with "A" Grade-3.32/4.00 CGPA,
Recognised under 2(f) & 2(B) of UGC Act 1956, Approved by AICTE,
Permanently Affiliated to JNTUK, Kakinada
SEETHARAMPURAM, NARSAPURAM-534 280, W.G.DT.,

DEPARTMENT OF SCIENCES & HUMANITIES

MINUTES OF BOARD OF STUDIES

Subject: Chemistry **Date: 13.10.2023**

BOS Meeting (Online) of Chemistry was held on 13.10.2023 at 3:30 PM

The following members were present:

1	Dr. S. Satyaveni	HOD Department of Chemistry, JNTUK, Kakinada
2	Dr. D. Rama Sekhar Reddy	Dean CDC Krishna University, Machilipatnam
3	Dr. V. Swaminadham	Professor & HOD
4	Mr. K. Srinivasa Rao	Assoc. Prof. Dept. of Chemistry SCET, Narsapur
5	Mrs. K. Janaki	Asst. Prof. Dept. of Chemistry, SCET, Narsapur
6	Mr. M. V. Krishna Mohan	Asst. Prof. Dept. of Chemistry, SCET, Narsapur
7	Mr. D. Nageswara Rao	Asst. Prof. Dept. of Chemistry, SCET, Narsapur
8	Ms. G. Naga Soundarya	Asst. Prof. Dept. of Chemistry, SCET, Narsapur

RESOLUTIONS:

- This year Onwards Two theory and Lab Courses are to be introduced
  1. Chemistry (Common to EEE, ECE, CSE and all CSE allied Branches)
  2. Engineering Chemistry (Common to CE, MECH and Robotics)
  3. Chemistry Lab (Common to EEE, ECE, CSE and all CSE allied Branches)
  4. Engineering Chemistry Lab (Common to CE, MECH and Robotics)
- It is resolved to continue the Chemistry and Engineering Chemistry engineering chemistry syllabus proposed with acceptable changes.
- It is unanimously resolved to follow the guidelines giver ~ademic Council for internal and external evaluations.
- It is unanimously accepted to strengthen the practical paper by introducing the new practical like preparation of nanomaterils by precipitation method, calculation of clound and pour point, Viscosity by Redwood Methods potentiometric and conductometric titrations between strong acid versus weak base etc. are added.

Paper setters:

The following are the list of paper setters

1) Dr. S. Satya Veni
   Asst. Prof.
   JNTU-Kakinada
   9052683532

2) Dr. Venkata Srilakshmi P.
   Prof. NIT Warnagal
   8702462672

3) Dr. B. Hari Babu
   Asst. Prof.
   ANU
   8500338866

4) Dr. Shivraj
   Professor
   Osmania University
   842572128

5) Dr. D. Rama Sekhar Reddy
   Asst. Prof.
   Krishna University
   9848591350

The above mentioned changes are discussed and unanimously accepted by the BOS committee. The meeting was successfully closed with fruitful discussions.

Dr. V. Swaminadham
Chairman BOS

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B Tech I/II SEMESTER

CHEMISTRY LAB

(Common to EEE, ECE, CSE, IT, AIML, AIDS, CSE-DS, CSE-CS and CSE-BS)

Course Objectives

- Verify the fundamental concepts with experiments.

Course Outcomes: At the end of the course, the students will be able toCO1:

Determine the cell constant and conductance of solutions.
CO2: Prepare advanced polymer Bakelite materials.
CO3: Measure the strength of an acid present in secondary batteries.
CO4: Determine the redox potentials and emf.
CO5: Calculate strength of acid in Pb-Acid battery.

List of Experiments:

1. Conductometric titration of strong acid vs. strong base
2. Conductometric titration of weak acid vs. strong base
3. Potentiometric titration of strong acid vs. strong base
4. Potentiometric titration of weak acid vs. strong base
5. Determination of cell constant and conductance of solutions
6. Potentiometry - determination of redox potentials and emfs
7. Determination of Strength of an acid in Pb-Acid battery
8. Preparation of a Bakelite
9. Preparation of nanomaterials by precipitation method
10. Estimation of Ferrous ion by Dichrometry

Reference:

- "Vogel's Quantitative Chemical Analysis 6th Edition " Pearson Publicationsby J. Mendham, R.C.Denney, J.D.Barnes and B. Sivasankar

Dr. S. Satyaveni Dr. D. Rama Sekhar Reddy Dr. V. Swaminadham K. Srinivasa Rao

K. Janaki M. V. Krishna Mohan D. Nageswa ra Rao G. Naga Soundarya