

Fwd: Sub-invitation as expert for BOS meeting , Dept of Chemistry, CBIT

1 message

Wed, Nov 30, 2022 at 10:29 AM

Chemistry HEAD <hod_chemistry@cbit.ac.in>

To: "Dr.M.Mamatha Assistant Professor" <mamatha_chm@cbit.ac.in>

----- Forwarded message -----

From: **Chemistry HEAD** <hod_chemistry@cbit.ac.in>

Date: Mon, Mar 12, 2018 at 12:33 PM

Subject: Sub-invitation as expert for BOS meeting , Dept of Chemistry, CBIT

To: panasa reddy adulla <reddypanasa@gmail.com>

To,

12-03-2018

Dr.A.Panasa Reddy

Osmania University,Hyderabad

Professor of Chemistry

Sub-invitation as expert for BOS meeting , Dept of Chemistry, CBIT

Sir,

I Dr. K.Laxmi, Professor & Head Dept of Chemistry, am hereby cordially inviting you as expert for conducting Board of Studies Meeting, in the Department of Chemistry CBIT, scheduled on 17th March 2018(Saturday) at 10.30 a.m. This is for the purpose of Finalization of syllabus of Chemistry theory and Lab for B.E/B.Tech 1/4 (all Branches) as given by the AICTE model Curriculum. Kindly accept the invitation and do the needful.

Thanking you,

Yours sincerely



Dr.K. Laxmi

Head , Department of Chemistry,
CBIT,Hydreabad.

DEPT. OF CHEMISTRY

C. B. I. T.

Hyderabad - 500 075

Fwd: invitation as expert for BOS meeting , Dept of Chemistry, CBIT

1 message

Chemistry HEAD <hod_chemistry@cbit.ac.in>
To: "Dr.M.Mamatha Assistant Professor" <mamatha_chm@cbit.ac.in>

Wed, Nov 30, 2022 at 10:25 AM

----- Forwarded message -----

From: **Chemistry HEAD** <hod_chemistry@cbit.ac.in>
Date: Mon, Mar 12, 2018 at 12:28 PM
Subject: invitation as expert for BOS meeting , Dept of Chemistry, CBIT
To: akd bhavaniou <akdbhavaniou@yahoo.com>

To,

12-03-2018

Dr.Durgabhavani .A.K
Professor of Chemistry
Osmania University,Hyderabad

Sub-invitation as expert for BOS meeting , Dept of Chemistry, CBIT

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Dr.K. Laxmi
Head , Department of Chemistry,
CBIT,Hydreabad.

Fwd: Sub-invitation as expert for BOS meeting , Dept of Chemistry, CBIT

1 message

Chemistry HEAD <hod_chemistry@cbit.ac.in>
To: mmamatha_chm@cbit.ac.in

Wed, Nov 30, 2022 at 10:28 AM

----- Forwarded message -----

From: Chemistry HEAD <hod_chemistry@cbit.ac.in>
Date: Mon, Mar 12, 2018 at 12:40 PM
Subject: Sub-invitation as expert for BOS meeting , Dept of Chemistry, CBIT
To: <drrama@heterodrugs.com>

To,

12-03-2018

Dr.P.Rama Devi
General Manager,DQA
Hetero(R&D)
Balanagar,Hyderabad

Sub-invitation as expert for BOS meeting , Dept of Chemistry, CBIT

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Thanking you,

Yours sincerely

Dr.K. Laxmi
Head , Department of Chemistry,
CBIT,Hydreabad.

CBIT Autonomous affiliated to Osmania University

DEPARTMENT OF CHEMISTRY

BOARD OF STUDIES MEETING OF CHEMISTRY

A meeting of Board of studies was held on 17th March 2018 at 10.30 a.m. in the chamber of HOD chemistry to discuss the following agenda

1. To finalize the syllabus of B.EI/4 (ALL BRANCHES) of Engineering course
Chemistry theory and lab with modifications in the AICTE Model Curriculum.
2. To approve the evaluation pattern ,credits and grades under Choice based credit system (CBCS) ,as given by the AICTE Model Curriculum 2018.
3. To approve list of paper setters and examiners.
4. Suggestions Of Board of Studies(BOS).

COMPOSITION OF BOARD OF STUDIES

1. Chairman Dr.K.Laxmi
Professor of Chemistry CBIT
2. Subject expert Dr.A.Panasa Reddy
Professor of Chemistry, Osmania University,Hyderabad
3. Subject expert Dr.P.YadagiriSwamy
Professor of Chemistry, Osmania University,Hyderabad
4. Subject expert Dr.A.K.DurgaBhavani
Professor of Chemistry , Osmania University
5. Subject expert Prof.RavindraNath
Professor of Chemistry School of Sciences
Moulana Azad National Urdu University,Hyderabad

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17/6/2022

6. Subject expert Dr. P. Rama Devi
General Manager, DQA Hetero (R&D), Balanagar, Hyderabad
7. Member Dr. S. Shylaja Senior Assistant Professor of Chemistry CBIT
8. Member Dr. K. Ramesh Senior Assistant Professor of Chemistry CBIT
9. Member Dr. M. Mamatha Assistant Professor of Chemistry CBIT

Item no.1 CONCEPTS IN CHEMISTRY FOR ENGINEERING -

Chemistry theory syllabus is keenly studied by the subject experts and they made very valuable suggestions in framing the modules with their titles of the syllabus. Experts have also decided the number of lecture hours for completion of each module

MODULE I Atomic and molecular structure (8 lectures)

**MODULE II Use of free energy in chemical equilibria and
Ionic Equilibria (10 lectures)**

MODULE III Stereochemistry and Organic reactions (14 lectures)

MODULE IV Water Chemistry (6 lectures)

MODULE V Engineering Materials and Drugs (9 lectures)

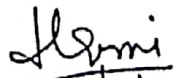
In **MODULE II** it is decided to allot 6 lecture hours for Use of free energy in chemical equilibria topics and 4 lecture hours to Ionic- Equilibrium topics.

Similarly in **module IV** there are two subunits Stereochemistry and Organic reactions for which 7 lecture hours are allotted to stereochemistry and 7 lectures for Organic reactions

Item no.2

Prof. Ravindra Nath, Professor of Chemistry, School of Sciences, Moulana Azad National Urdu University, Hyderabad has strongly insisted to use the term module in place of term unit.

- The topics included in **Module I Atomic and molecular structure** were retained as given by AICTE MODEL CURRICULUM 2018, except very few changes.


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- The topics included in Module II Use of free energy in chemical equilibria are also retained as per AICTE MODEL CURRICULUM 2018 with very small minor changes.
- In Module II the topic of Ionic- Equilibria is introduced keeping in view of the importance of solubility product and its applications. For this 4 lecture hours were allotted.
- The sub topics of above two modules I & II were thoroughly studied in depth by the Physical Chemistry experts Dr.Panasa Reddy and Dr.P.YadagirjSwamy and were finalized.

Item no.3

- Organic chemistry experts Dr.A.K.DurgaBhavani and Prof.RavindraNath listed out the topics of Stereochemistry and Organic Reactions of Module III. This is done with the intention of providing sufficient knowledge of organic chemistry to the students at the under graduate level.
- It is also suggested by the above experts to be specific with the topics like enantiomers and diastereomers by giving the examples .
- Similarly they insisted in giving names of examples for the organic reactions like substitutions, additions, eliminations, oxidation , cyclization etc.

Item no.4

- As per the suggestion made by Dr.PanasaReddy ,Professor of Osmania University , Water Chemistry is included as a separate module as module IV . This modification is done by expert by taking the flexibility of making changes to the extent of 20 % in the AICTE Model Curriculum.
- The sub topics included in Water Chemistry were keenly considered by him and was framed with the intention of having knowledge to engineering students about hardness of water and its types , boiler troubles – scales and sludges ; water softening methods ;Industrial water, and their treatment methods and also potable water and its specifications ; Disinfection methods.

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Item no.5

- In module V Engineering materials like nano materials, composite materials, conducting polymers were included. This is strongly recommended by the subject expert Prof.RavindraNath as he says an engineering student must have the knowledge of Material science irrespective of his branch of study.

Item no.6

- As recommended by the experts Dr.A.K.DurgaBhavanl and Dr.P.Rama Devi, the study of drugs like Aspirin (analgesic), Paracetamol (antipyretic), atenolol (antihypertensive) is included in the syllabus up to their structure and synthesis levels. This has been done with intention of having awareness about commonly used drugs.

Item no.7

- A list of eight text books were suggested. In this three books are for physical chemistry, three books are for organic chemistry and two books are suggested for engineering chemistry topics.
- Course outcomes were slightly modified in accordance to changes made in the syllabus. This for the purpose of NBA CO-PO mapping. Corrections were also made in Course outcomes to be in accordance with Blooms Taxonomy.

Item no.8

- Chemistry Practical syllabus is also recommended with the valuable changes by the subject experts. This is because chemistry is a experimental subject and profound knowledge in the Practicals is essential to understand the concepts in engineering Profession.
- Chemistry practical lab syllabus is also studied in depth and a list of 12 experiments were finalized from AICTE Model Curriculum. The experiments included are hardness of water, chloride estimation in water, first order kinetics, Conductometric titrations—HCL Vs NaOH ; CH_3COOH Vs NaOH ; mixture of acids Vs NaOH ; Potentiometric acid base and redox titrations ; Distribution experiments, Organic identification of functional groups; Determination of viscosity and surface tension . Asprin synthesis.

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- The above experiments were selected with the intention of improving skills of the students in handling instruments like conductometer & potentiometers
- Students were also made to focus on the organic functional group identification. Experiments of water chemistry, kinetics, distribution, viscosity, surface tension etc
- It was decided by the experts to prepare the experimental procedures for the above experiments and they highlighted to teach the students the principle of each experiment before commencement of the lab session.
- A list of three text books were suggested for Chemistry Practical experiments by the experts.
- Course outcomes in accordance with Blooms Taxonomy were also incorporated for Chemistry Practical Lab syllabus.

Item no.9

- Marks distribution for internal and external lab sessionals and theory exams were reviewed and finalized.
- It is insisted by the experts to give weightage to viva in the Lab Internal and External examination.
- It is decided to allot 70/30 marks for External and Internal theory exams respectively

The syllabus for Chemistry theory and Lab for B.E I/4 (ALL BRANCHES) of Engineering course is modified taking into consideration of all the above suggestions discussed in the meeting and is well framed incorporating the modifications given. The modified syllabus copy of Chemistry theory and Lab for B.E I/4 (ALL BRANCHES) is reviewed keenly by the subject experts, Members and Chairman of the BOS and is approved.

Laxmi
17/6/2022

Dr.K. Laxmi
Head, Department of Chemistry,
CBIT, Hyderabad.

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