

Minutes Of B.Sc., Chemistry and M.Sc., chemistry⁹ Board
Of studies Meeting held on 18/01/2013

Members Present

University Nominee

Dr. R. SEVEL,

Associate Professor of Chemistry
Vivekananda college,
Tiruvudagam.

Subject Expert

Dr. M. MEENAKSHISUNDARAM,
Head & Associate Professor of
Chemistry,
ANJA College, Sivakasi.

Alumnus

Dr. K. RADHAKRISHNAN,
Associate Professor of Chemistry,
S N college, Madurai

Industrial / Corporate sector :

Thiru. AMBAL R. MUTHUMANI
Prop. Abis Coffee,
Virudhunagar.

Members

1. Dr. R. Boominathan - Chair Person
2. Dr. C. Kasunakaran
3. Dr. N. Raman
4. Dr. A. Sarathi
5. Dr. P. Sami
6. Thirumathi. R. Vahini
7. Thiru. R. Paulpandian
8. Thiru. A. Sakmivel
9. Dr. S. Kasulhapandian
10. Dr. V. Muthuraj

11. Thirumathi. S. Dhanalakshmi
12. Dr. A. Vijayakumar.
13. Thiru. S. Marikkani

Resolutions

The Board of Studies Meeting of B.Sc., & M.Sc., Chemistry Board was held on 18/01/2013 in Networking Laboratory at Department of Chemistry at 2.00pm. The following resolutions were passed.

1. The paper titles for the II year UG and P.G Courses were discussed and approved with one change: to have Core Lab II Semimicroqualitative inorganic ^{qualitative} analysis instead of Qualitative org analysis for sub code UICHC4P1. [^] ₂
2. The Draft syllabus for the UG and PG for second year was discussed, analysed and approved with minor modifications.
3. The Question Pattern for Skill based subjects were discussed and approved.

1. Prof.

2. 4. July 2013

3. ~~20~~ 18.01/13 (K. RADHAKRISHNAN).

4. R. Boornathan a. Sarma

5. ~~N. Raman~~ (N. RAMAN)

6.

7. ~~J.~~ (A. SARATHI)

8. ~~Chinn~~ (SAMI. P)

9. R. R. R.

10. ~~Sankar~~ (A. SRIKANTH)

11.

12. ~~S.~~

13. ~~V.~~

14. S. Dhanalakshmi

15. ~~S.~~

16. H. Vijayakumar (A. VIJAYAKUMAR)
17. S. Marikani (S. MARIKANI)

held on 07/12/13

Members Present

University Nominee

Dr. R. SEVVEL,

Associate Professor of Chemistry
Vivekananda College, Tiruvedagam.

Subject Expert

1. Dr. M. MEENAKSHI SUNDARAM

Head & Associate professor of
Chemistry,
ANJA College, Sivalcasi,

Alumnus

Dr. K. RADHAKRISHNAN,

Associate Professor of Chemistry,
S.N. College, Madurai

Industrial / Corporate sector

Thiru. Ambal R. MUTHUMANI
Prop. Abis Coffee,
Virudhunagar.

Members

1. Dr. R. Boominathan - Chair Person.
2. Dr. C. Karunakaran
3. Dr. N. Raman.
4. Dr. A. Sarasathi
5. Dr. P. Sami
6. Mrs. R. Vahini
7. Mr. R. Paul Pandian
8. Mr. A. Sakthivel
9. Dr. S. Kasutha Pandian
10. Dr. V. Mulhuraj
11. Mrs. S. Dhana Lakshmi
12. Dr. A. Vijayakumar
13. Dr. E. Jeya Bharathi

Resolutions

The Board of Studies meeting of B.Sc Chemistry Board was held on 07/12/13 in the Net working laboratory at Department of Chemistry at 11.00 pm. The following resolutions were passed.

1. In the last Board of studies meeting, it was resolved to modify the Practical syllabus for the Second year B.Sc Chemistry: (Ref. Page No. 11) (e) Core Lab II Qualitative Organic analysis was already changed to Qualitative Inorganic analysis.
2. It is proposed that Skill based subject for IV semester is to be fixed common for all U.G. courses. (e) Employability Skill. Therefore already given Skill based subject Applied Chemistry is withdrawn.
3. Also resolved to implement the following change in the Course scheme.
 - (a) Core subject VI Applied Chemistry is changed to Inorganic Chemistry II
 - (b) Core Lab III Inorganic Semimicroqualitative analysis and Gravimetric Estimation - organic preparation and organic Gravimetric Estimation
 - (c) Core Lab IV Organic preparation & organic Estimation - organic Analysis & organic Estimation
4. The Draft syllabus for UG (B.Sc Chemistry) was discussed, analysed and approved with minor modifications. The copy of the corrected syllabus and details will be forwarded to the Academic Council for its approval.

07/12/13
 1 (C. RADHAKRISHNAN)
 R. BOOMINATHAN
 2 C. KARUNAKARAN
 3 N. RAMAN
 4 A. SARATHI
 5 [P. SAMI]
 6 R. PAUL PANDIAN
 7 R. VAHINI (R. VAHINI)
 8 (A. SAKITHIUEL)
 9 (S. KARUTHA PANDIAN)
 10 (DR. V. MUTHURAJ)
 11 (S. DHANALAKSHMI)
 12 (A. VIJAYAKUMAR)

Studies Meeting held on 28/03/15

Members Present

University Nominee

Dr. S. Muthusubramanian
Chair person,
School of Chemistry,
Madurai Kamaraj University,
Madurai

Subject Expert

1. Dr. M. Rajendran
Associate Professor of Chemistry
S.V.N College, (Autonomous) Madurai
2. Dr. P. Meenakshi Sundram,
Associate Professor of Chemistry,
ANJA College (Autonomous), Sivakasi.

Alumnus

1. Dr. K. Radhakrishnan,
Associate Professor of Chemistry,
S N College (Autonomous), Madurai

Industrialist

1. Thiru. K.C. Gurusamy,
K.C. Plasto Packs,
S-21, SIDCO Industrial Estate, Sulakkari, Virudhunagar

Members

1. Dr. R. Boominathan - Chair Person
2. Dr. C. Kasunakaran
3. Dr. N. Raman
4. Dr. A. Sasathi
5. Dr. P. Sami
6. Mr. R. Paul Pandian
7. Mrs. R. Vahini
8. Dr. A. Sakthivel
9. Dr. S. Kasutha Pandian
10. Dr. V. Muthuraj
11. ~~Dr.~~ A. Vijayakumar
12. Dr. E. Jeya Bharathi
13. Mr. K. Arunsumai Kumar
14. Mr. R. Mahalakshmi

Resolutions

The Board of Studies Meeting for B.Sc and M.Sc Chemistry Board was held on 28/03/15 in the Net working Laboratory at Department of Chemistry at 10.am. The following resolutions were passed

The Draft Syllabus for Both UG and PG Chemistry (Semester I and II) was discussed and analysed and approved with minor modifications. The copy of the corrected syllabus will be forwarded to the Academic Council for its approval.

1. M. Jagan (Dr. M. RAJENDRAN)
2. Sonuthobanain (Prof. S. MUTHUSUBRAMANIAN)
3. ~~28/03/15~~ (K. RADHAKRISHNAN)
4. M. Jagan (M. MEENAKSHI SUNDARAM)
5. R BOOMINATHAN RBOOMAN
6. C. DARUNAKARAN c. Darun
7. P. SAMI ahmmi L
8. N. RAMAN N. Ram
9. A. SAKTHIVEL J. Sakthivel
10. A. VIJAYAKUMAR A. Vijayakumar
11. S. KARUTHARANDIAN S. Karutharandian
12. R. VAHINI R. Vahini
13. K. ARUN/SUMATHI KUMAR K. Arun
14. R. MAHALAKSHMI R. Mahalakshmi
15. E. JAYABHARATHI J. Jayathi

Minutes of B.Sc Chemistry and M.Sc Chemistry
Board of Studies Meeting held on 20/02/2016.

Members Present

University Nominee

Dr. S. Muthy Subramanian
Chairperson,
School of Chemistry,
Madurai Kamaraj University,
Madurai

Subject Expert

1. Dr. M. Rajanokian
Associate Professor of Chemistry
S.V.N college (Autonomous), Madurai
2. Dr. P. Meenakshi Sundaram
Associate Professor of Chemistry
P.T.J.C college (Autonomous), Sivakasi

Advisors

1. Dr. K. Radhakrishnan,
Associate Professor of Chemistry
S.V.N college (Autonomous), Madurai

Members:

- | | |
|------------------------------------|-----------------------------|
| 1. Dr R. Boominathan - chairperson | |
| 2. Dr. C. Karunakaran | |
| 3. Dr. N. Raman | 11. Dr. E. Jeyarajothi |
| 4. Dr. D. Sarathi | 12. Dr. K. ArunSundar Kumar |
| 5. Dr. P. Sami | 13. Dr. V. Selvam |
| 6. Dr. A. Sakthivel | 14. Dr. Y. Pitchaikani Raja |
| 7. Dr. S. Karuthapandian | |
| 8. Dr. V. MuthuRaj | |
| 9. Dr. P. Vidya Kumar | |
| 10. Mrs. S. Dhana Lakshmi | |

The Board of Studies meeting held for B.Sc and M.Sc chemistry Board was held on 20/02/2016. In the Conference Hall at Department of chemistry at 10:00 a.m. The following resolutions were passed.

The Draft syllabus for both UG, PG, Distance and Self Learning (Semester III and IV) was discussed.

In II M.Sc chemistry the following changes were carried out.

1. Physical chemistry Practicals - II is replaced by one core theory paper and project work.
2. The new core paper Analytical methods in chemistry is introduced in semester - II.
3. 6 hours are allotted for project work in IV-semester.
4. One more hour is added to the Inorganic chemistry practicals - II in IV semester.
5. In sem - III core subject VIII - Inorganic chemistry - II solid state removed NMR and Molecular Spectroscopy added.
6. In sem - IV core subject XIII - Inorganic chemistry - IV Electro analytical and Thermo analytical methods removed solid state Introduced.
7. An erratum is rectified in physical chemistry practicals.

In II B.Sc chemistry the following paper is revised.

In sem - III core subject III Inorganic and physical chemistry, co-ordination chemistry removed Halogen and p-block.

II- sem III oil and Pat, oil characterizing method removed oil processing method added.

In sem IV core subject IV organic and physical chemistry, spectroscopic concept removed, Debye solution and colligative properties added.

IV sem allied I oil and Pat, the content of the unit - II, Food additives and unit - IV Food preservation.

(P.T.O)

and Food preservation modified

In Ancillary characters sem III and IV general chemistry for Biological Sciences completely revised

Syllabus of the self-learning course for U and PCD were discussed and approved.

1. Prof. S. Mathy Subramanian

S. Mathy Subramanian

2. Dr. M. Rajendran

M. Rajendran

3. Dr. M. Meenakshi Sundaram

M. Meenakshi Sundaram

4. Dr. K. Radha Krishnan

~~K. Radha Krishnan~~
20/02/16 -
K. Radha Krishnan

5. Dr. R. Baskinathan

R. Baskinathan

6. Dr. C. KARUNAKRAN

C. Karunakaran

7. Dr. N. RAMAN

N. Raman

8. Dr. A. SARATHI

A. Sarathi

9. Dr. P. Samsi

P. Samsi

10. Dr. A. SAIGALUVA

A. Saigaluva

11. Dr. S. KARUTHAPANDIAN

S. Karuthapandian

12. Dr. V. Muthu Raj

V. Muthu Raj

13. S. DIANALAKSHMI

S. Dianalakshmi

14. Dr. A. VIJAYAKUMAR

A. Vijayakumar

15. Dr. E. JAYABHARATHI

E. Jayabharathi

16. Dr. K. ARUNSWAMI KUMAR

K. Arunswami Kumar

17. Dr. Y. SELVAM

Y. Selvam

18. Dr. Y. P. Theerthasi Rajar

Y. P. Theerthasi Rajar

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Minutes of B.Sc Chemistry Board of studies
meeting held on 07/3/17

Members Present

Subject Expert

Dr. K. Muthial

Head & Associate Professor

Saraswathi Narayan College

Madurai - 625022

Alumnus

Dr. A. Jawahar

Department of Chemistry
NMSSVN college

Madurai - 625019

Industrial Representative

Thiru K.C. Gurusamy

K.C. Plasto Packs

S-21, Sidco Industrial Estate, Sulakkalai

Vinudhanagar.

Members:-

1. Dr. R. Boominathan - chair person
2. Dr. C. Karunakaran
3. Dr. N. Raman
4. Dr. A. Sarathi
5. Dr. P. Sami
6. Dr. A. Saktivel
7. Dr. S. Karutha Pandian
8. Dr. V. Muthuraj
9. Mrs. S. Dhana Lakshmi
10. Dr. A. Vijayakumar
11. Dr. K. Annasurai Kumar
12. Dr. Y. Pitchai Kanisaya
13. Dr. V. Selvam
14. J. Sberin

Resolution

The board of studies meeting for B.Sc Chemistry Board was held on 07/3/17. In the conference hall of department of Chemistry at 2.00 PM. The following resolutions were passed.

~~the~~

The ~~draft~~ syllabus for UG chemistry (Sem-V and Sem-VI) was discussed, analysed and approved with some modifications.

The copy of the corrected syllabus will be forwarded to the academic council for its approval.

The following modifications are suggested,

1. Physical Chemistry I - Unit II "Thermochemistry - Hess law's & constant heat summation, Kirchoff's equation - bond energies, enthalpies and its applications in the determination of enthalpies of reactions, formation of compound and resonance energy" - deleted.

Unit III: Thermodynamics III is replaced by basics of electrochemistry.

2. Inorganic Chemistry I - Sem V -

Unit I: Concept of e^- transfer replaced by d-block elements

Unit II: Concept of acids and bases transfer to Unit IV in Sem VI and newly introduced d-block element as a unit II

Unit III: f-block element is replaced by Co-ordination chemistry

Unit IV: Metal carbonyl is replaced by concept of acid & base

Unit V: Application of C-languages replaced by Error analysis and curve fitting.

3. The experts are recommended to modify the polymer chemistry.

4. Physical Chemistry II - Sem VI

Unit I: Electrochemistry-I replaced by Thermodynamics I

Unit II: Electrochemistry II is replaced by chemical and ionic equilibria.

Group theory is ~~moved~~ brought to Sem VI as unit II.

6. Inorganic Chemistry II - Sem VI

Unit I: Theory of analytical chemistry is replaced by gravimetry and Thermo analytical method.


Unit II: Theory of analytical chemistry is replaced by metal carbonyls.

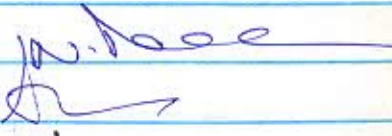

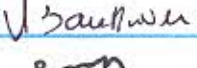
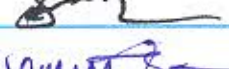
Unit III: Theory of analytical chemistry is replaced by f-block elements.

NME-II (Industrial Chemistry)
The committee members ~~are~~ suggested to change all the units. The ^{NME-I} paper title is "chemistry in day to day life".

Members Present

1. Dr. K. Mothilal - Subject Expert, S.V. College, Madurai
2. Dr. A. Jawahar, Alumnus, NMSSVNG, Madurai
3. Thiru K. C. Gurusamy, K.C. Plastopacks, Sulakerai
4. Dr. R. BOOMINATHAN
5. Dr. C. KARUNAKARAN
6. Dr. N. RAMAN
7. Dr. A. SARATHI
8. Dr. P. SAMI
9. Dr. A. Saktivel
10. Dr. S. KARUTHAPANDIAN
11. Dr. V. Muthuraj
12. Mrs. S. Dhanalakshmi
13. Dr. A. Vijaya Kumar
14. Dr. K. ARUNSWAMI KUMAR
15. Dr. V. SELVAM
16. J. Sberio


R. Boominathan,
c. Stalin


Dr. N. Raman

Dr. A. Sarathi

Dr. P. Sami

Dr. A. Saktivel

Dr. Vijaya Kumar


Dr. K. Arunswami Kumar

Dr. V. Selvam

M.Phil

9

Minutes of M.Phil., Chemistry
Board of studies meeting held on 28/03/2015
members present

University Nominee:

Dr. S. Muthusubramanian,
Professor of Chemistry,
Chairperson
School of Chemistry,
Madurai Kamaraj University,
Madurai-21.

Subject Experts:

1. Dr. M. Rajendran,
Associate Professor of Chemistry,
S. Vellaichamy Nadar College (Autonomous),
Madurai
2. Dr. P. Meenakshiji Sundaram,
Associate Professor of Chemistry,
ANJA College (Autonomous),
Sivakasi.

Alumnus:

1. Dr. K. Radhakrishnan,
Associate Professor of Chemistry,
Saraswathi Narayan College (Autonomous),
Madurai.

Industrialist:

1. Thiru K.C. Gurusamy,
K.C. Plasto Packs,
S-21, Sidco Industrial estate,
Sulakkurais,
Vimadhuragar.

MEMBERS:

1. Dr. R. BOOMINATHAN
2. Dr. C. KARUNAILARAN
3. Dr. N. RAMAN
4. Dr. P.A. SARATHI,
5. Dr. P. SAMI,
6. Mr. R. PAUL PANDIAN
7. Mrs. R. VAHINI,
8. Dr. A. SAKTHIVEL,
9. Dr. S. KARUTHAPANDIAN
10. Dr. V. MUTHURAJ,
11. Dr. A. VIJAYAKUMAR
12. Dr. E. JAYABHARATHI,
13. Dr. K. ARUNJUNAKUMAR
14. Mrs. R. MAHALAKSHMI

Resolutions

The board of studies meeting of m.phil., chemistry board was held on 28/03/2015 in net-working laboratory at department of chemistry, at 10.30 A.m. The following resolutions were passed.

1. The title of the papers for the m.phil. course was discussed and analysed with following modification was suggested.

Research methodologies

(a) In Unit I of Research methodologies paper include "Significance of H-index and impact factor".

(b) In Unit II include "ESI" in place of CI & APCI

(c) In unit II Remove the ^{Basic} instrumentation of EPR spectrometers.

(d) In unit IV Include "determination of particle size and mention the methods within parenthesis, and solid solutions"

d. Course work paper

(a) Include in unit I "Retro synthesis approach for smaller molecules not more than six compound and change the heading of the unit is as "organic synthesis and ~~solving~~ ^{organic} structural problems"

(b) In unit II change correct the superscript and subscript character and "change O₂h into Dash. and D₂v into cov" and remove the "stretching mode of analysis of metal carbonyl and metal complexes"

(c) In unit IV Remove the following
 temp dependence of magnetic susceptibility
 to solar cells
 => change chapter title "Evaluation of extn. techniques" into EPR. ~~and~~
~~Remove IR by method, and IR method~~

(d) Include the Reference book for retro synthesis.

<u>Name in Capital</u>	<u>Signature</u>
1. S. MUTHUSUBRAMANIAN	<u>S. Muthusubramanian</u>
2. K. RADHAKRISHNAN	<u>K. Radhakrishnan</u> 28/03/15
3. M. RAJENDRAN	<u>M. Rajendran</u>
4. M. MEENAKSHI SUNDARAM.	<u>M. Meenakshi Sundaram</u> 28/03/15
5. R. BOOMINATHAN	<u>R. Boominathan</u>
6. C. KARUNAKARAN	<u>C. Karunakaran</u>
7. N. RAMAN	<u>N. Raman</u>
8. P.A. SARATHI	
9. P. SAMI	<u>P. Sami</u>
10. R. PAUL PANDIAN	<u>R. Paul Pandian</u>
11. R. VAHINI	<u>R. Vahini</u>
12. A. SAKTHIVEL	<u>A. Sakthivel</u>
13. S. KARUTHAPANDIAN	<u>S. Karuthapandian</u>
14. V. MUTHU RAJ	<u>V. Muthu Raj</u>
15. A. VIJAYAKUMAR	<u>A. Vijayakumar</u>
16. E. JAYA BHARATHI	<u>E. Jaya Bharathi</u>
17. K. ARUNSUVAI KUMAR	<u>K. Arunsvai Kumar</u>
18. R. MAHALAKSHMI	<u>R. Mahalakshmi</u>

Minutes of B.Sc and M.Sc Chemistry board of studies meeting held on 17.02.2018.

Members Present

University Nominee

Dr.A.Ramu
Professor and Head
Department of Inorganic Chemistry
School of Chemistry
Madurai Kamaraj University
Madurai – 625021.

Alumnus

Dr.A.Jawahar
Department of Chemistry
NMSSVN College
Madurai – 625 019

Industrial Representative

Thiru K.C.Gurusamy
K.C.Plasto Packs
S-21, Sidco Industrial Estate,
Sulakkarai,
Virudhunagar

Chair Person

Dr.R.Boominathan
Associate Professor and Head
Department of Chemistry
VHNSN College (Autonomous)
Virudhunagar.

Members

1. Dr. C.Karunakaran
2. Dr.N.Raman
3. Dr.A.Sarathi
4. Dr.P.Sami
5. Dr.R.Paulpandian
6. Mrs. R.Vahini
7. Dr.A.Sakthivel
8. Dr.S.Karuthapandian
9. Dr.V.Muthuraj
10. Mrs.S.Dhanalakshmi
11. Dr.A.Vijiyakumar
12. Dr.E.Jeya Bharathi
13. Dr.K.Arunsunai Kumar

Resolution

The board of studies meeting for B.Sc and M.Sc Chemistry board was held on **17.02.2018**. In the conference hall at department of chemistry at 11.00 AM. The following resolutions were passed.

The existing syllabus for UG and PG chemistry (Semester I & II) was discussed and analysed with some modifications. The copy of the corrected syllabus will be forwarded to the academic council for its approval. The following modification are carried out

UG Chemistry

Semester –I

Core subject: Introduction to Chemistry

Unit-I Included “shapes of orbitals (s,p and d orbitals)

Unit – II Anomalous behavior of II Period elements - **Included**

Unit III, IV & V No Change

Semester I- Part III–Allied Subject–Oils and Fats I

Hoursperweek:4 Subject Code: U2CHA11 Credits: 4

Unit – I, II, III, IV & V No Change

Skill based subject-I

Principles of Chemical Analysis-I

Hoursperweek:2 Subject Code: Credits: 2

Unit-I Equivalent weight of oxidizing agents, Equivalent weight of reducing agents – **Removed**

Unit-II No Change

Unit-III Indicators used in redox titrations-changed as Indicators used in the above titrations

Unit-IV No Change

Unit-V Recent methods of estimation of carbon, hydrogen and nitrogen-CHN analyser – **Included**

Skill based subject - Chemical Bonding-I

Hoursperweek:2 Subject Code: Credits: 2

Unit-I No change

Unit-II Variable valency of cations - Covalent character of ionic bond-Fajan’s rule-included Simple problems involving Born-Haber cycle and Lande’s equation-**removed**

Unit-III Kossel–Lewis approach to chemical bonding –Lewis structure of HCl, H₂O, BeCl₂, CO₂, CO, NO₂⁻, NO₃⁻, CO₃²⁻ and SO₄²⁻ - Exception of octet rule BeCl₂ and BCl₃ - **Included**

Lewis concept of covalent bond-**removed**

Unit-IV Dipole moment – **Included**

Fajan’s rule, Percentage of ionic character and dipole moment - **Removed**

Unit-V Specified coordinate covalent bond formation with examples NH₃ and BF₃

Semester –II **Core subject 2: General chemistry**

Sub. Code: U2CHC2

Unit-I No Change

Unit-II ‘carbanion’ is removed as ‘carbanions’

Unit-III a) Remove “Metallic character”

b) ‘Reducing properties’ is removed as ‘reducing properties of the elements’

c) Hydride as hydrides

d) ‘Silicates –Classification removed as silicates –classification –ortho, pyrochain and sheet silicates

e) ‘borazine’ as silicane, borazine

f) Relative strength of halides is replaced by halogen acids.

g) Fullerenes and Clathrates – **Removed**

h) Compound of Xenon changed in preparation and structure of

Semester II – Part III – Allied Subject – Oils and Fats II

Hours per week: 4

Subject Code:

Unit – I, II, III, IV & V No Change

Skill based subject-III Principles of Chemical Analysis-II

The paper **Introduction of computers** replaced by **Principles of Chemical Analysis-II**

Semester-II - Skill based subject-IV -Chemical bonding-2

Unit-I, II & III: No change

Unit-IV: Hydrogen bond is replaced by number of hybrid orbitals. Examples such as BeCl_2 , BF_3 , CH_4 , $[\text{Ni}(\text{CN})_4]^{2-}$, PCl_5 , SF_6 , and IF_7 . - **Included**

Unit-V: BeF_2 , BF_3 , CH_4 , PF_5 , SF_6 , ClF_3 , - **Removed**

SnX_2 , $[\text{NH}_4]^+$, $[\text{BF}_4]^-$, CO_2 , C_2H_4 , C_2H_2 , OCl_2 , SF_4 , ClF_3 , ICl_5 - **Included**

Semester-I Allied subject for physical science General chemistry-U2CHA1X1

Unit-I: IUPAC nomenclature for simple acyclic compounds (Aliphatic compounds) - Isomerism: R-S configuration of one asymmetric carbon and cis-trans isomerism with example - **Included**

Unit-II: Specified the name of methods - Estimation of carbon and hydrogen by **Liebig's combustion method**, estimation of nitrogen by **Dumas method**, Estimation of Halogen-by **Carius method**

Unit-III : Pauling and mulliken Scale - **removed**

Hydrogen: Isotopes of hydrogen – preparation, properties and uses of Deuterium-ortho and para hydrogen- **Included**

Unit-IV: Hydrides and oxides – **Removed**

Chemical equilibrium: Characteristic of Chemical equilibrium– Reversible reaction – Equilibrium law - Equilibrium constant- Equilibrium constant in terms of partial pressures- K_c and K_p relationship – Le Chatelier's principle - Synthesis of Ammonia by Haber process. **Included**

Acids, bases and salts – pH – Buffer solution – Henderson equation and its significance. Electrolyte: Classification and example – Ostwald's dilution law - **Included**

Unit -V No change

Semester II – Part III – Allied Subject – General Chemistry-II for Physical Science

Unit – I, II, III, IV & V : No Change

Semester I – Part III – Allied Subject – General Chemistry-I for Biological Science

Unit-I Types of organic reactions-substitution, addition and elimination with example- **Included**

Unit – II: Progesterone - **Removed** Testosterone - **Included**

Unit - III, IV & V: No Change

Semester II – Part III – Allied subject II – General Chemistry –II for Biological science

Unit-III: Calculations based on principle of volumetric analysis-corrected

Unit-IV: Alloy is replaced by **Detection and Estimation of Elements**

Detection of nitrogen, halogen and sulphur, estimation of carbon, hydrogen, sulphur and halogens-Determination of empirical and molecular formula-structural formula – **Included.**

PG Chemistry

Semester-I- Part-III- Core Subject I- Organic Chemistry I

Hours per week: 5

Credits: 5

Subject Code: P2CHC11

Unit – I, II, III, IV & V: No Change

Semester-I- Part-III- Core Subject II- Inorganic Chemistry I

Hours per week: 5

Credits: 4

Subject Code: P2CHC12

Unit-I : The concept of multicentre bond as applied to deficient molecules- Boran hydrides-**removed**

To specified the molecules: Heteronuclear diatomic molecules CO, HF and HCl
Triatomic molecule (BeCl_2 and H_2O)

Unit-II: No change

Unit-III: Metal clusters-removed, B_2H_6 - **Included**

Unit-IV: Extraction-**included** and Isolation-**removed**

Platinum group metals (general extraction only)-Different forms of Pt-Preparation and uses-**included**

Unit-V: Stability constant-thermodynamic stability and kinetic stability-step-wise stability constants and overlap stability constant and the relationship between them (**included**)

Semester I- Part III - Core Subject III - Physical Chemistry I

Unit - I

Hypothetical (gedenkan) experiments of Heisenberg, Unitary operator and permutation operator - **Removed**

Unit - II, III, IV No Change

Unit - V : Decomposition of acetaldehyde - **Removed**

Semester - I - Part- III - Major Elective I - Nano science and Nanotechnology

Hours per week: 4

Credits: 3

Subject Code: P2CHE11

Unit I: 0 D (Zero D) **Included**

Unit II: No change

Unit-III Include" principles and instrumentation of "in front of SEM-STM.....

Unit-IV Include:"principle and instrumentation of "in front of XRD.....

Semester II -Part III- Core subject IV -Organic chemistry II

Hours per week: 5

Credits:4

Subject Code: P2CHC21

Unit - I, II, III, IV & V: No Change

Semester II- Part III - Core Subject V - Inorganic Chemistry II

Unit-I

Square bipyramidal geometries replaced by square pyramidal geometries, Thermodynamic effect of CFSE-**removed**

Unit-II: Covalent Vs ionic bonding-**removed**, IR study of metal nitrosyl and dinitrogen complexes - **Included**

Unit-III: π -bonding and polarization theories-**included**

Unit-IV and Unit-V places are interchanged. (unit-IV to unit-V and unit-V to unit-IV)

Semester II- Part III - Core Subject VI - Physical Chemistry II

Unit - I : VB treatment of hydrogen molecule ...Molecular term symbol - **Removed**

Huckel Molecular orbital theory - Linear combination of Atomic orbitals (LCAO) - coulombic integral - exchange or resonance integral and overlap integral - Simple Huckel calculations - ethylene, allyl system, butadiene - delocalisation energy - **Included**

Unit - III: C_{4v} , C_{2h} and D_{2d} - **Removed**

Unit IV: Specified examples: Linear ($C_{\infty v}$), Non Linear (C_{2v} & C_{3v}), homonuclear diatomic molecules (N_2), Heteronuclear diatomic linear molecules (CO & HCN) and non-linear (H_2O) Mutual exclusion principle with illustration (CO_2 & XeF_4)

Unit - V: Crystallinity of polymers - glass transition temperature & important structural features - **Removed**. cationic and anionic - **Included**






Semester II Part IV - Non-Major Elective

Forensic science and crime Investigation paper is replaced by Applied Chemistry



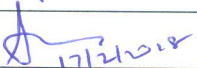
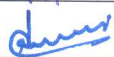




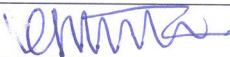

Part III- Core III - LAB: Physical Chemistry Practical I

Spectrofluorometer - **Included**

Members Present

S.No	Name	Signature
1.	University Nominee Dr.A.Ramu, Professor and Head Department of Inorganic Chemistry School of Chemistry Madurai Kamaraj University Madurai - 625021.	
2.	Subject Expert Dr.K.Mothilal Head & Associate Professor Saraswathi Narayan College Madurai - 625 022	
3.	Alumnus Dr.A.Jawahar Department of Chemistry NMSSVN College Madurai - 625 019	
4.	Industrial Representative Thiru K.C.Gurusamy K.C.Plasto Packs S-21, Sidco Industrial Estate, Sulakkarai, Virudhunagar	
5	Chair Person Dr.R.Boominathan Associate Professor and Head Department of Chemistry VHNSN College (Autonomous) Virudhunagar.	

Members

1	Dr. C.Karunakaran	
2	Dr.N.Raman	
3	Dr.A.Sarathi	
4	Dr.P.Sami	
5	Dr.R.Paulpandian	
6	Mrs. R. Vahini	
7	Dr.A.Sakthivel	
8	Dr.S.Karuthapandian	
9	Dr.V.Muthuraj	
10	Mrs.S.Dhanalakshmi	

11	Dr.A.Vijiayakumar	<i>d. Vijiayakumar</i>
12	Dr.E.Jeya Bharathi	<i>E. Jeya Bharathi</i>
13	Dr.K.Arunsunai Kumar	<i>K. Arunsunai Kumar</i>

Board of studies meeting of B.Sc and M.Sc programmes held on 23.02.2019

Minutes of the meeting

The Board of studies meeting of **B.Sc Programme** was held today at **11.00** am in the department of **Chemistry**. After having a detailed discussion, the board resolved the following:

Semester III - U2CHC3

Resolved to include/delete the following topic in **Unit No. I to V of Inorganic and physical chemistry** leading to **10 %** of change in the existing syllabus of the course.

Unit I General Principles of metallurgy

Extraction of metal - **removed**

Different furnaces used for the metallurgical processes: Reverberatory furnace, Blast furnace, Electric furnace and muffle furnace - **Specified**

Unit II Nuclear Chemistry

Emission of energy - **Removed**

Scintillation and study of reaction mechanism - **Included**

Unit III Halogen and their compounds

Interhalogen compounds: Types and general methods of preparation - Structure of XY, XY₃, XY₅ and XY₇ - **Specified**

Unit IV Phase rule

Compound formation systems with congruent and incongruent melting point - **Rearranged.**

Unit V Distribution law and liquid crystals

Application of distribution law: Study of association of a solute and dissociation of solute, distribution indicators, Study of complex ions and solvent extraction - **Included**

Semester IV U2CHC4

Resolved to **include/delete** the following topic in **Unit No. I to V of Organic and physical chemistry** leading to **10 %** of change in the existing syllabus of the course.

Unit I Structure of benzene, aromaticity and orientation

No Change

Unit II Heterocyclic compounds

Indole - **Included**

Unit III Carbohydrate

Killiani Synthesis - **Included**

Preparation, uses and structure of starch and cellulose - **Included**

Unit IV Solid state

Interplanar spacing problems - **Included**

Band Theory of Solid, metal excess defect and metal deficiency defects - **Included**

Unit- V Dilute solution and colligative properties

Raoult's law - **Included**

Cryoscopic, ebullioscopic and van't Hoff factor - **Included**

52
P.G

Resolved to change the ratio between the internal and external, 50:50, for M.Sc project.

M.Sc Chemistry

Resolved to include / delete the following topic in **Unit No. I to V of Organic Chemistry-III** leading to **25 %** of change in the existing syllabus of the course.

Semester - III Core Subject VII - Organic Chemistry III

Unit I: Synthetic methods I

Introduction to Organic synthesis- C-C bond forming reaction –functional group modification – 1,2-carbonyl addition- 1,4-carbonyl addition- nucleophilic addition to carbonyl compounds and olefin)- **Included**

Activating groups-protecting groups - **Interchanged**

Stereoselective problems of geometrical isomerism –**Included**

Umpolung synthesis and Homogeneous catalytic hydrogenation -**Removed.**

Unit II: Organic photochemistry and pericyclic reactions

Thermal versus photochemical reaction, photochemical laws – **Included**

Conservation of orbital symmetry-construction of molecular orbital and symmetry elements to simple molecules like 1,3-butadiene, 1,3,5-hexatriene, cyclobutene, cyclohexadiene – **Included**
perturbation molecular orbital approach to the above reactions - **Removed**

Unit III: Molecular rearrangement

Beckmann, Hofmann, Baeyer–Villiger, Benzil–benzilic acid, Claisen, Cope, Fries rearrangement -**Removed.**

Wagner-Meerwein, Curtius, Schmidt and Lossen rearrangement, Bayer-Villiger, Shapiro rearrangement-**Included**

Unit IV: Carbohydrates, proteins and nucleic acids

Heterocyclic compounds – Nomenclature of heterocycles having not more than two hetero atoms-Structure, synthesis and reactions of Oxazole, Imidazole, Thiazole, Coumarin Flavone and Flavanol (3-hydroxyflavone), Anthocyanins (Quercetin, Cyanin, Cyanidin chloride) –Pyrimidines (Uracil) and Purines (Structural elucidations of Caffeine, Theobromine and Theophylline). -**Included**

Proteins and Nucleic acids: Classifications of proteins – peptides – synthesis of peptides – structural elucidation of Glutathione and Oxytocin – An elementary treatment of enzymes, coenzymes and nucleic acids – Genetic code – DNA and determining the base sequence of DNA.-**Removed in III Semester and it moved to Unit IV in Semester-IV**

Unit V: Oxidation and reduction

Woodward and Prevost hydroxylation, Baker yeast- Phase transfer catalyst – **Included**

Semester III – Part III – Core Subject VIII – Inorganic Chemistry III

Resolved to include/delete the following topic in **Unit No. I to V of Inorganic Chemistry-III** leading to **5 %** of change in the existing syllabus of the course.

Unit I – Bioinorganic Chemistry I

Synthetic oxygen carrier - **Included**

Unit II & III – No change

Unit IV–EPR Spectroscopy of Inorganic Compounds

Ni²⁺ - **Removed** , Covalency of metal complexes (Copper) – **Included**

Unit V – NMR and Mossbauer Spectroscopy

Pseudo contact shift and Lanthanide shift reagents, Gold – **Included**

Semester - III - Part – III - Core Subject IX - Physical Chemistry III
Unit I, II & III: No Change
Unit IV: Hot band - Included & Unit V: No Change

Semester - III - Part – III – Core Subject X
Analytical Methods in Chemistry
Unit I, II, III IV and V: No Change

Semester - III - Part – III – Major Elective III
Medicinal and Pharmaceutical Chemistry
Unit I, II, III IV and V: No Change

Semester - III - Part – III – Major Elective III
Polymer chemistry
Unit I, II, III IV and V: No Change

Semester - IV - Part – III - Core Subject XI - Organic Chemistry IV
Resolved to include/delete the following topic in **Unit No. I to V of Organic Chemistry-IV** leading to **20 %** of change in the existing syllabus of the course.

Unit- I: Synthetic methods II

Carbon-carbon bond forming reaction – Chemoselectivity - **Removed**

Unit-II: No Change

Unit- III: Terpenoids and steroids

Structure (position of the hydroxyl group and double bond and nature of the side chain (Barbier-Wieland degradative study) – **Included**

Cortisone -**Included**

Unit- IV: Heterocyclic compounds and alkaloids

Heterocyclic compounds:

Classification – Five and six membered heterocycles – heterocycles containing more than one heteroatoms. – Structure and synthesis of imidazole, pyridazine, pyrimidine, pyrazine, purine and uracil- **Removed and Moved to Unit IV in Semester-III**

Proteins and Nucleic acids: Peptides - End group analysis (N-terminal analysis-Edman method –Sanger method or DNP method-C-terminal analysis) - structural elucidation and synthesis of peptides - structural elucidation of Glutathione and Oxytocin- an elementary treatment on enzymes, coenzymes and nucleic acids – Genetic code - DNA and determine the base sequence of DNA. -**Included**

Unit- V: Green chemistry

Need for Green chemistry- Goals of green chemistry – **Included**
– Planning a green synthesis in the laboratory (choice of starting materials-choice of reagents-choice of catalysts-choice of solvent-mode of supplying energy to a reaction) – **Specified**
Microwave assisted reactions in water-Microwave assisted reactions in organic solvents-
Microwave assisted solvent free reactions - **Specified**

Semester IV – Part III – Core Subject XII – Inorganic Chemistry IV

Unit I & II : No Change

Unit III moved to Unit IV

Unit IV moved to Unit III, Unit III – shuffled

Unit V: Applications of metal complexes in solar energy conversion - Included.

Semester - IV - Part – III - Core Subject XIII - Physical Chemistry IV

Unit I, II, III IV and V : No Change

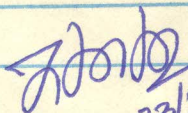
**Self Learning Course
APPLIED CHEMISTRY**

Unit I, II, III IV and V : No Change

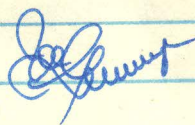
Resolved to introduce the value added course, “**Molecular Modeling and Drug Designing**” for the students of **U.G / P.G with 30 contact hours.**

Members Present:

Dr. C. MATHILAL
Head of Associates program,
Department of Chemistry,
Saraswathi Narayan College,
Madurai - 625022


23/2/19

Thiru K. G. GURUSAMY
K. C. Plastopacks
S-21, SIDCO Ind. Estate,
Sulankarai
Virudhunagar.



Dr. R. BOOMINATHAN Rhoanew

Dr. C. KARUNAKARAN c. Karunak

Dr. V. RAMAN

Dr. A. SARATHI

Dr. P. SAMI

Dr. R. PAULIPANDIAN

Dr. R. VAHINI

Dr. A. SAKTHIVEL

Dr. S. KARUTHAPANDIAN

Dr. V. MUTHURAJ

Mrs. S. DIANALAKSHMI

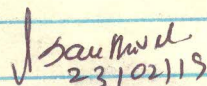
Dr. A. VIJAYAKUMAR

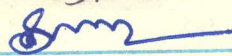
Dr. E. JEYABHARATHI

Dr. K. ARUNSUVAIKUMAR

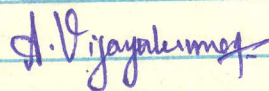


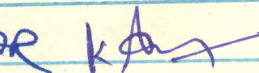



23/02/19











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BOARD OF STUDIES MEETING OF B.Sc CHEMISTRY HELD ON 29.02.2020

MINUTES OF THE MEETING

The Board of Studies Meeting of **B.Sc Chemistry** was held today at **10.30a.m.** in the Department of Chemistry. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for **III B.Sc Chemistry** as follows:

Semester V

Subject Core / Elective /SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core Subject	Organic Chemistry I	Organic Chemistry - I	Employability	30% revised
Core Subject	Physical Chemistry I	Physical Chemistry - I	Employability	15% revised
Core Subject	Inorganic Chemistry I	Inorganic Chemistry - I	Employability	10% revised
Core III - LAB	Organic Preparations and Gravimetric Estimations	Organic Preparations and gravimetric Estimations	Skill Development	No change
Core IV - LAB	Organic Analysis and Organic Estimations	Organic Analysis and organic estimations	Skill development	No change
Core lab V	Physical Chemistry experiments	Physical Chemistry Experiments	Skill development	No change
NME	Chemistry in day-to-day life	Chemistry in day-to-day life	Employability	No change



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Semester VI

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core Subject	Organic Chemistry II	Organic Chemistry - II	Employability	25% revised
Core Subject	Physical Chemistry II	Physical Chemistry - II	Employability	10% revised
Core Subject	Inorganic Chemistry-II	Inorganic Chemistry - II	Employability	20% revised
Core III – LAB	Organic Preparations and Gravimetric Estimations	Organic Preparations and gravimetric Estimations	Skill Development	No change
Core IV – LAB	Organic Analysis and Organic Estimations	Organic analysis and organic estimations	Skill Development	No change
Core V – LAB	Physical Chemistry experiments	Physical Chemistry experiments	Skill Development	No change
Skill Based Subject VI	Medicinal Laboratory Technology and Clinical (Removed) Biochemistry	Project	Employability and Skill development	New
Non Major Elective	Industrial Chemistry	Industrial chemistry	Employability	No change

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to include Project in the final semester and the maximum marks for the projects shall be 100. There shall be **both internal and external valuation in the ratio of 50:50**.

3. Resolved to approve the panel of Examiners suggested by the members of the Board as given in Annexure – II.

4. (Any other resolutions passed in the meeting) For all UG & PG classes, industrial visit / national / university labs are optional as part of may be arranged to get exposure on practical knowledge.



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Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Allied	General Chemistry - III	General Chemistry - III	Skill Development	No change
Allied	General Chemistry - IV	General Chemistry - IV	Skill Development	20% revised

Self-Learning Course (UG Only):

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Self Learning	-----	COSMETICS	Entrepreneurship	no change
Self Learning	-----	CHEMISTRY COMPETITIVE SKILL DEVELOPMENT COURSE	Skill development	New

Self-Learning Course (PG Only):



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Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
SLS	—	CRITICAL ANALYSIS OF GATE/CSIR-NET QUESTIONS	Skill development Employability	New

Members Present:

Name	Category	Signature
Dr. C. Karunakaran Associate Professor & Head	Chairman	C. Karunakaran 29/02/2020
Dr. R. Kumar Rajan Associate Professor and Head, Department of Chemistry, CPA College, Bodinayakanur – 625 513 Email: kumargokul1964@gmail.com Mobile: 9944263487	University Nominee	
Dr. P. Govindarajan, Associate Professor and Head, Department of Chemistry, S. B. K. College, Aruppukotai. Email: govindsbk@gmail.com Mobile: 8072112482	Subject Expert	
Dr. A. Mathavan, Associate Professor and Head, Department of Chemistry, V. O. Chidambaram College, Palayamkottai Road,	Subject Expert	A. Mathavan 29/02/2020 (Dr. A. MATHAVAN)



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Thoothukkudi - 628008 Email: abhimathavan@gmail.com Mobile: 9344315469		
Dr. S. Premsingh, Associate Professor in Chemistry, American College, Madurai. Email: spremsing@yahoo.co.in Mobile: 9486505420	Alumnus	
Thiru K.C. Gurusamy, K.C.Plasto Packs, S-21, Sidco Industrial Estate, Sulakkarai, Virudhunagar.	Corporate Sector	
Dr. N. Raman , Associate Professor	Member	
Dr. A. Sarathi, Associate Professor	Member	 29/2/2020
Dr. P. Sami, Associate Professor	Member	 Chennai
Dr. R. Paulpandian, Assistant Professor	Member	
Dr. R. Vahini, Assistant Professor	Member	
Dr. A. Sakthivel, Assistant Professor	Member	 29/02/2020
Dr.S.Karunthapandian, Assistant Professor	Member	
Dr. V. Muthuraj, Assistant Professor	Member	
Mrs. S. Dhanalakshmi, Assistant Professor	Member	
Dr. A.Vijayakumar, Assistant Professor	Member	
Dr. E. Jayabharathi, Assistant Professor	Member	
Dr. K. Arunsunai Kumar, Assistant Professor	Member	




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Mr.K.Murali, Assistant Professor	Member	
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**BOARD OF STUDIES MEETING OF NAME OF THE PROGRAMME HELD ON 19.03.2022****MINUTES OF THE MEETING**

The Board of Studies Meeting of **B.Sc & M.Sc Chemistry** was held today at **10.30a.m.** in the Department of Chemistry. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year B.Sc & M.Sc Chemistry as follows:

Semester I for B.Sc Chemistry

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core subject II	Introduction to Chemistry	Introduction to Chemistry	Employability	No Change
Core LAB I	Volumetric analysis	Semi-micro Inorganic Qualitative Analysis	Skill Development	New
Allied	Oils and Fats I	Oils and Fats I	Employability	No Change
Allied LAB I	Oil analysis	Oil analysis	Skill Development	No Change
SBS - I	Principles of Chemical Analysis -I	Principles of Chemical Analysis -I	Skill Development	No Change
SBS - II	Chemical Bonding -I	Bonding Skills in Chemistry -I	Skill Development	Title Change

Semester II for B.Sc Chemistry

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core subject II	General Chemistry	General Chemistry	Employability	No Change
Core LAB I	Volumetric analysis	Semi-micro Inorganic Qualitative Analysis	Skill Development	New
Allied	Oils and Fats II	Oils and Fats II	Employability	No Change
Allied LAB I	Oil analysis	Oil analysis	Skill Development	No Change



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SBS – III	Principles of Chemical Analysis -I	Principles of Chemical Analysis -I	Skill Development	No Change
SBS - IV	Chemical Bonding -I	Bonding Skills in Chemistry -I	Skill Development	Title Change

Semester I for M.Sc Chemistry

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core Subject I	Organic Chemistry I	Organic Chemistry I	Employability	10 % Revised
Core Subject II	Inorganic Chemistry I	Inorganic Chemistry I	Employability	No Change
Core Subject III	Physical Chemistry I	Physical Chemistry I	Employability	30 % Revised
Core I – LAB:	Organic Chemistry Practical	Organic Chemistry Practical	Skill Development	InterChanged
Core II – LAB:	Inorganic Chemistry Practical I	Inorganic Chemistry Practical I	Skill Development	No Change
Core III – LAB:	Physical Chemistry Practical I	Physical Chemistry Practical I	Skill Development	No Change
Major Elective 1 –	Nano science and Nanotechnology	Nano science and Nanotechnology	Employability	75 % Revised

**Semester II for M.Sc Chemistry**

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on Employability / Entrepreneurship / Skill Development	Revised / New / No Change / Interchanged If revised % of change
Core Subject IV	Organic Chemistry II	Organic Chemistry II	Employability	10% Revised
Core Subject V	Inorganic Chemistry II	Inorganic Chemistry II	Employability	No Change
Core Subject VI	Physical Chemistry II	Physical Chemistry II	Employability	30% Revised
Core I – LAB:	Organic Chemistry Practical I	Organic Chemistry Practical I	Skill Development	No Change
Core II – LAB:	Inorganic Chemistry Practical I	Inorganic Chemistry Practical I	Skill Development	No Change
Core III – LAB:	Physical Chemistry Practical I	Physical Chemistry Practical I	Skill Development	No Change
Non-Major Elective	Industrial Chemistry	Industrial Chemistry	Employability	20 % changed



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The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the panel of Examiners suggested by the members of the Board as given in Annexure – II.

3. (Any other resolutions passed in the meeting) (i) 3 years skeleton (UG) & Members Present: 2 years skeleton for PG (ii) For all UG & PG classes industrial/national/university lab visit

Name	Category	Signature
Dr.C.Karunakaran Associate Professor & Head	Chairman	c. Karunakaran 19/03/22
Dr.B. Medona Associate Professor & Head Dept. of Chemistry Fatima College Madurai - 625018	University Nominee	—
Dr. P. Sarojini Asst. Prof. & Head Dept. of Chemistry S.R.N.M. College Sattur - 626203	Subject Expert	Sarojini 19/3/2022
Dr. B. Umadevi Head & Associate Professor in Chemistry G.V.N. College Kovilpatti - 628502	Subject Expert	—
Dr. Mohan Das Associate Professor Dept. of Chemistry Saraswathi Narayanan College Madurai - 625022	Alumnus	—



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Thiru K.C. Gurusamy K.C. Plasto packs S-21 Sidco Industrial Estate, Sulakkarai Virudhunagar 626001	Industrial Representative / Corporate Sector	—
Dr. N. Raman	Member	N. Raman
Dr. A. Sarathi	Member	A. Sarathi
Dr. P. Sami	Member	P. Sami
Dr. R. Paulpandian	Member	R. Paulpandian
Dr. R. Vahini	Member	—
Dr. A. Sakthivel	Member	A. Sakthivel
Dr. S. Karuthapandian	Member	S. Karuthapandian
Dr. V. Muthuraj	Member	V. Muthuraj
Dr. S. Dhanalakshmi	Member	S. Dhanalakshmi
Dr. A. Vijaya Kumar	Member	A. Vijaya Kumar
Dr. E. Jeya Bharathi	Member	E. Jeya Bharathi
Dr. K. Arun Sundar Kumar	Member	K. Arun Sundar Kumar
Mr. K. Murai	Member	K. Murai



MINUTES OF THE MEETING

The Board of Studies Meeting of **B.Sc& M.Sc Chemistry** was held today at **10.30 am** in the Department of Chemistry. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year B.Sc Chemistry as follows:

Semester I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	General Chemistry-I	General Chemistry-I	✓			No Change	National
Core	Quantitative Inorganic estimation (titrimetry) and Inorganic Preparations	Quantitative Inorganic estimation (titrimetry) and Inorganic Preparations	✓			No Change	National
Allied	Allied – Oils & Fats -I	Allied – Oils & Fats - I	✓			New	Local
Allied	Oils Analysis Practical's I	Oils Analysis Practical's I			✓	New	Local
Skill Enhancement Course SEC-1 (NME)	Food Chemistry	Food Chemistry			✓	No Change	National
Foundation Course FC	Role of Chemistry in Daily Life	Role of Chemistry in Daily Life	✓			No Change	National
Ability Enhancement Compulsory Course(AECC) Soft Skill-1							



Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	General Chemistry–II	General Chemistry–II	✓			No Change	National
Core	Qualitative Organic Analysis And Preparation Of Organic Compounds	Qualitative Organic Analysis And Preparation Of Organic Compounds	✓			No Change	National
Allied	Oils & Fats -II	Oils & Fats - II	✓			New	Local
Allied	Oils and Fats Analysis Practical's II	Oils and Fats Analysis Practical's II			✓	New	Local
Skill Enhancement Course SEC-1 (NME)	Dairy Chemistry	Dairy Chemistry	✓			No Change	National
Skill Enhancement Course SEC1 (Discipline Specific):	Cosmetics and Personal care Products	Cosmetics and Personal care Products			✓	No Change	National
Ability Enhancement Compulsory Course(AECC) SoftSkill-2							



GENERIC ELECTIVE

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Elective Mathematics and Physics	Chemistry for Physical Sciences I (for Mathematics & Physics students)	Chemistry for Physical Sciences I (for Mathematics & Physics students)				No Change	National
Elective Botany & Zoology	Chemistry For Biological Sciences I (For Botany And Zoology Students)	Chemistry For Biological Sciences I (For Botany And Zoology Students)				No Change	National
Elective Mathematics and Physics	Chemistry for Physical Sciences II (for Mathematics & Physics students)	Chemistry for Physical Sciences II (for Mathematics & Physics students)				No Change	National
Elective Botany & Zoology	Chemistry For Biological Sciences II (For Botany And Zoology Students)	Chemistry For Biological Sciences II (For Botany And Zoology Students)				No Change	National
Elective	Chemistry Practical for Physical And Biological Sciences (Semester I / III)	Chemistry Practical for Physical And Biological Sciences (Semester I / III)					National
Elective	Chemistry Practical for Physical And Biological Sciences (Semester II / IV)	Chemistry Practical for Physical And Biological Sciences (Semester II / IV)					National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **I B.Sc Chemistry** with the following changes:

Course	Unit No.	Changes
Oils and Fats -I	1-5	100 %
Oils analysis Practical's - I	-	100%



Oils and Fats -II	1-5	100 %
Oils analysis Practical's - II	-	100%

II B.Sc Chemistry

1. Resolved to revise the syllabus of the courses for **II B.Sc. Chemistry** as follows:

Semester III

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Inorganic and Physical Chemistry	Inorganic and Physical Chemistry	✓			No Change	National
Core	LAB: Volumetric analysis	LAB: Volumetric analysis			✓	Interchanged I st Semester to III rd Semester	National
Allied	Oils and Fats- III	Oils and Fats- III	✓			No Change	Local
Allied	LAB: Food Analysis	LAB: Food Analysis			✓	No Change	Local

Semester IV

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Organic and Physical Chemistry	Organic and Physical Chemistry	✓			No Change	National
Core	LAB: Volumetric analysis	LAB: Volumetric analysis			✓	Interchanged I st Semester to III rd Semester	National
Allied	Oils and Fats- IV	Oils and Fats- IV	✓			No Change	Local



Allied	LAB: Food Analysis	LAB: Food Analysis			✓	No Change	Local
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The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **B.Sc. Chemistry with** the following changes:

Course	Unit No.	Changes
II B.Sc Chemistry	LAB: Volumetric analysis	Interchanged I st Semester to III rd Semester

I M.Sc Chemistry

1. Resolved to revise the syllabus of the courses for **IM.Sc Chemistry** as follows:

Semester I

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Organic reaction mechanism I	Organic reaction mechanism I	✓			No Change	National
Core	Structure and Bonding In Inorganic Compounds	Structure and Bonding In Inorganic Compounds	✓			No Change	National
Core	Organic Chemistry Practical I	Organic Chemistry Practical I			✓	No Change	National
Elective	Nanomaterials and Nano technology	Nanomaterials and Nano technology	✓			No Change	National
Elective	Electrochemistry	Electrochemistry	✓			No Change	National
SEC	Research Tools and Techniques - I	Research Tools and Techniques - I			✓	NEW	National



AECC	Chemistry for life science	Chemistry for life science			✓	NEW	National
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Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Organic Reaction Mechanism II	Organic Reaction Mechanism II	✓			No Change	National
Core	Physical Chemistry I	Physical Chemistry I	✓			No Change	National
Core	Inorganic Chemistry Practical	Inorganic Chemistry Practical			✓	No Change	National
Elective	Medicinal Chemistry	Medicinal Chemistry	✓			15 % Revised	National
Elective	Bio-Inorganic Chemistry	Bio-Inorganic Chemistry	✓			No Change	National
SEC2	Research Tools and Techniques - I	Research Tools and Techniques - I			✓	NEW	National
AECC2	Chemistry in consumer products	Chemistry in consumer products			✓	NEW	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for I M.Sc Chemistry with the following changes:

Course	Unit No.	Changes
Medicinal Chemistry	1 & 4	15 % Revised



II M.Sc Chemistry

1. Resolved to revise the syllabus of the courses for II M.Sc Chemistry as follows:

Semester III

Subject Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchan- ged If revised % of change	Course Contribut ion
			Employabi lity	Entrepreneur ship	Skill Developm ent		Local/ National/ Global Level
Core	Organic Chemistry III	Organic Chemistry III	✓			15 % Revised	National
Core	Inorganic Chemistry III	Inorganic Chemistry III	✓			No Change	National
Core	Physical Chemistry III	Physical Chemistry III	✓			20 % Revised	National
Core	Organic Chemistry Practical II	Organic Chemistry Practical II			✓	No Change	National
Core	Inorganic Chemistry Practical II	Inorganic Chemistry Practical II			✓	No Change	National
Core	Analytical Methods in Chemistry	Analytical Methods in Chemistry	✓			No Change	National
Elective	Medicinal and Pharmaceut ical Chemistry / Polymer Chemistry	Medicinal and Pharmaceut ical Chemistry / Polymer Chemistry	✓			No Change	National



Semester IV

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Organic Chemistry IV	Organic Chemistry IV	✓			15 % Revised	National
Core	Inorganic Chemistry IV	Inorganic Chemistry IV	✓			No Change	National
Core	Physical Chemistry IV	Physical Chemistry IV	✓			20 % Revised	National
Core	Organic Chemistry Practical II	Organic Chemistry Practical II			✓	No Change	National
Core	Inorganic Chemistry Practical II	Inorganic Chemistry Practical II			✓	No Change	National
Elective	Project & Viva-voce	Project & Viva-voce			✓		

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for II M.Sc Chemistry with the following changes:

Course	Unit No.	Changes
Organic Chemistry III	1 & 2	15 % Revised
Physical Chemistry III		20 % Revised
Organic Chemistry IV	2, 3 & 4	15 % Revised
Physical Chemistry IV		20 % Revised

3. (Any other resolutions passed in the meeting)



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Members Present:

Name	Category	Signature
Dr. C. Karunakaran Associate Professor and Head	Chairman	 07/06/2023
Dr. B. Medona Associate Professor and Head Department of Chemistry Fatima College, Madurai – 625 018. Email: sureshmedona259@gmail.com Mobile:	University Nominee	
Dr. P. Sarojini, Assistant Professor and Head, Department of Chemistry, S. R. N. M College, Sattur – 626 203. Email: sarojini@srmcollege.ac.in Mobile: 9486232875 9487525026	Subject Expert	 7.06.2023
Dr. B. Umadevi Head & Associate Professor in Chemistry, G.V.N. College Kovilpatti – 628 502. Email: bu_1967@yahoo.com Mobile: 9366720833	Subject Expert	
Dr. Mohan Dass Associate Professor, Department of Chemistry, Saraswathi Narayanan College Madurai – 625 022. Email: pmd2000snc@gmail.com Mobile: 9843382671	Alumnus	
Thiru K.C. Gurusamy, K.C.Plasto Packs, S-21, Sidco Industrial Estate, Sulakkarai, Virudhunagar - 626001.	Corporate Sector	



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Mobile: 6383852765 Email: kcgrotary@gmail.com		
Dr. N. RAMAN Associate Professor Department of Chemistry VHNSN College (A), Virudhunagar	Member	N. Raman 7.6.2023
Dr. A. SAKTHIVEL, Assistant Professor, Department of Chemistry VHNSN College (Autonomous), VNR sakthivel@vhnsnc.edu.in	Member 9442665906	A. Sakthivel 07/06/2023
Dr. R. PAUL PANDIAN Asst. Prof. of Chemistry, VHNSN College, VNR paulpandian@vhnsnc.edu.in	Member 9367412888	R. Paul Pandian 7/6/23
Dr. R. VAHINI Asst. Prof. of Chemistry, VHNSN College, VNR. vahini@vhnsnc.edu.in	Member 9865999711	R. Vahini 7/6/23
Dr. S. IJARUTHA PANDIAN Asst. Prof. of Chemistry, VHNSN College (A), VNR 8667666462	Member	S. Ijarutha Pandian
Dr. V. MUTHUDAS Asst. Prof. of Chemistry VHNSN College muthudaj.v@vhnsnc.edu.in	Member 9940965228	V. Muthudas
Dr. S. Dhanalakshmi Asst. Prof. of Chemistry VHNSN College dhanalakshmi@vhnsnc.edu.in	Member 9514392988	S. Dhanalakshmi
Dr. E. JAYABHARATHI Asst. Prof. of Chemistry VHNSN College, jayabharathi@vhnsnc.edu.in	Member 95974-79408	E. Jayabharathi
Dr. A. V. JAYAKUMAR Assistant Professor of Chemistry V.H.N.S.N. College	Member	A. V. Jayakumar
Dr. K. ARUNSWAMI KUMAR Asst. Prof. of Chemistry VHNSN College (A)	Member	K. Arunswami Kumar
K. MURALI Asst. Prof. of Chemistry VHNSN College. murali.k@vhnsnc.edu.in	Member	K. Murali
Dr. P. Senthil Kumar Assistant Professor VHNSN College,	Member	P. Senthil Kumar



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Dr. A. SARATHI	Member	
	Member	
	Member	



**BOARD OF STUDIES MEETING OF NAME OF THE PROGRAMME HELD ON 30.10.2023
MINUTES OF THE MEETING**

The Board of Studies Meeting of **B.Sc & M.Sc Chemistry** was held today at **10.30 am** in the Department of Chemistry. After having a detailed discussion, the Board resolved the following:

1. Resolved to revise the syllabus of the courses for I year II Semester **I B.Sc Chemistry** as follows:

Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution Local/ National/ Global Level
			Employability	Entrepreneurship	Skill Development		
Core	General Chemistry-II	General Chemistry-II	✓			New	National
Core	Volumetric Analysis	Volumetric Analysis			✓	New	National
Allied	Oils and Fats II	Oils and Fats II	✓			New	Local
Allied	Oil Analysis	Oil Analysis			✓	New	Local
SBS	Principles of Chemical Analysis -I	Principles of Chemical Analysis -I			✓	New	National
NME	Industrial Chemistry	Industrial Chemistry	✓			New	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **I B.Sc Chemistry** with the following changes:

Course	Unit No.	Changes
General Chemistry-II	1-5	100 %
Volumetric Analysis	-	100 %
Oils and Fats II	1-5	100 %
Oil Analysis	--	100 %



Principles of Chemical Analysis -I	1-5	100 %
Industrial Chemistry	1-5	100 %

1. Resolved to revise the syllabus of the courses for I year II Semester **I M.Sc Chemistry** as follows:

Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Core	Organic Chemistry II	Organic Chemistry II	✓			New	National
Core	Inorganic Chemistry II	Inorganic Chemistry II	✓			New	National
Core	Physical Chemistry II	Physical Chemistry II	✓			New	National
Core	LAB: Organic Chemistry Practical I	LAB: Organic Chemistry Practical I			✓	New	National
Core	LAB: Inorganic Chemistry Practical I	LAB: Inorganic Chemistry Practical I			✓	New	National
Core	LAB: Physical Chemistry Practical I	LAB: Physical Chemistry Practical I			✓	New	National
NME	Industrial Chemistry	Industrial Chemistry			✓	New	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **I M.Sc Chemistry** with the following changes:

Course	Unit No.	Changes
Organic Chemistry II	1-5	100 %



Inorganic Chemistry II	1-5	100 %
Physical Chemistry II	1-5	100 %
LAB: Organic Chemistry Practical I	-	100 %
LAB: Inorganic Chemistry Practical I	-	100 %
LAB: Physical Chemistry Practical I	-	100 %
Industrial Chemistry	1-5	100 %

1. Resolved to revise the syllabus of the courses for I year II Semester **Ancillary Chemistry** as follows:

Semester II

Subject Allied/ Core / Elective / SBE / NME / SLS	Title of the Existing Course	Title of the Course after revision	Focus on			Revised / New / No Change / Interchanged If revised % of change	Course Contribution
			Employability	Entrepreneurship	Skill Development		Local/ National/ Global Level
Allied	General Chemistry-II	General Chemistry-II	✓			New	National
Allied	Chemistry: Volumetric Analysis	Chemistry: Volumetric Analysis	✓			New	National

The detailed syllabus passed in the Board of Studies Meeting is given in Annexure – I.

2. Resolved to approve the draft syllabi for **Ancillary Chemistry** with the following changes:

Course	Unit No.	Changes
General Chemistry-II	1-5	100 %
Chemistry: Volumetric Analysis	-	100 %


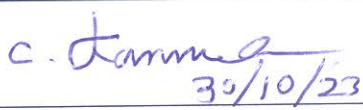
3. (Any other resolutions passed in the meeting)



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Members Present:

Name	Category	Signature
Dr.A.Sarathi	Principal	
Dr. C. Karunakaran Associate Professor and Head	Chairman	 30/10/23
Dr. B. Medona Associate Professor and Head Department of Chemistry, Fatima College, Madurai – 625 018. Email: sureshmedona259@gmail.com Mobile:	University Nominee	-
Dr. P. Sarojini, Assistant Professor and Head, Department of Chemistry, S. R. N. M College, Sattur – 626 203. Email: sarojini@srmcollege.ac.in Mobile: 9486232875	Subject Expert	-
Dr. B. Umadevi Head & Associate Professor in Chemistry, G.V.N. College Kovilpatti – 628 502. Email: bu_1967@yahoo.com Mobile: 9366720833	Subject Expert	-
Dr. Mohan Dass Associate Professor, Department of Chemistry, Saraswathi Narayanan College, Madurai – 625 022. Email: pmd2000snc@gmail.com Mobile: 9843382671	Alumnus	-
Thiru K.C. Gurusamy, K.C. Plasto Packs, S-21, Sidco Industrial Estate, Sulakkarai, Virudhunagar - 626001. Mobile: 6383852765 Email: kcgroty@gmail.com	Corporate Sector	-



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DY. N. RAMAN Associate Professor	Member	N. Raman 30.10.2023
DR. P. SAMI Associate Professor	Member	P. Sami 30.10.2023
DR. R. BALAKANDIAN Associate Professor	Member	R. Balakandian
DR. R. VAHINI Associate Professor	Member	R. Vahini
DR. A. SAKTHIVEL Associate Professor	Member	A. Sakthivel 30/10/2023
DR. S. KARUTHAPANDIAN Associate Professor	Member	S. Karuthapandian 30/10/2023
DR. V. MUTHUSAI Associate Prof	Member	V. Muthusai 30/10/23
DR. S. DHANALAKSHMI Associate Prof	Member	S. Dhanelakshmi 30/10/23
DR. A. VIJAYAKUMAR Assistant Professor	Member	A. Vijayakumar 30/10/2023
DR. B. JAYABHARATHI Assistant Professor	Member	B. Jayabharathi 30/10/2023
DR. K. ARUNSUNIL KUMAR Asst Prof. of Chemistry	Member	K. Arunsunil Kumar
MR. K. MURALI Assistant Professor	Member	K. Murali 30/10/2023
	Member	