Board of studies (36th) Time: 10.00 am

Venue: Instrumentation room

Date: 09-02-2019 **Board Members: External Experts:**

1. Dr. Ananda Ratchagan, Associate Professor, Department of Chemistry, Islamiah College, Newton, Vaniyambadi.

2. Dr. A. Vijayakumar Assistant Professor,

Loyola College,

Chennai.

Alumnus:

3. Dr. S. Joseph Selvaraj Associate Professor.

Department of Chemistry, St. Joseph's College (Autonomous), Tiruchirappalli

University Nominee:

4. Dr. A. Pandurangan, Professor,

Department of Chemistry, Anna University, Guindy Campus,

Chennai.

Student Representatives:

5. Ms. I. Rebeccah Ruby (17PCH11) 6.Mr. N. Athisiva Selvam (16CHE45)

Department members:

7. Dr. V. Jeyabal

8. Dr. S. Stanly John Xavier 9. Dr. S. Mary Jelastin Kala

10. Dr. C. Maria Magdalane

11. Dr. Y. Jeya Vinse Ruban

12. Dr. M. Baby Mariyatra

13. Dr. C. Christopher

14. Dr. A. Anto Arockiaraj

15. Mr. U. Jeyapaul 16. Mr. A. Jerold Antony

17. Dr. G. Vignesh

Not present

NOT present

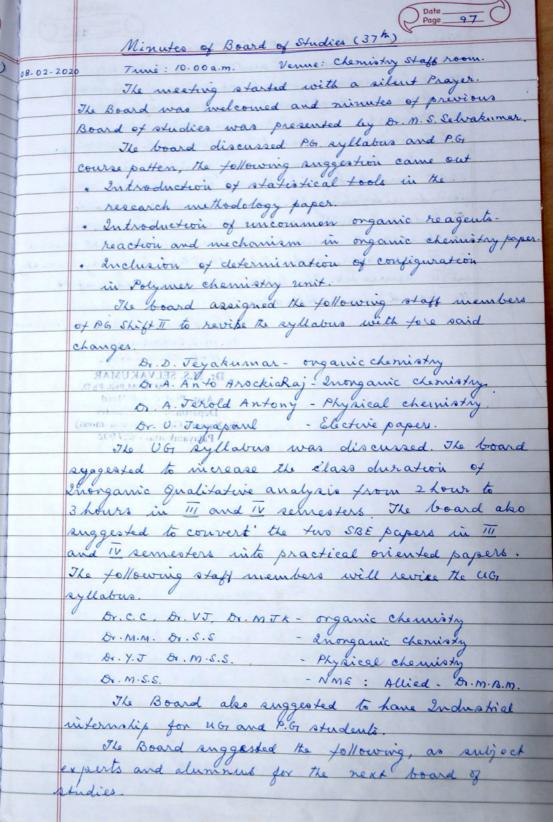
Not present

J. RebeccatRuby

Minutes of Board of Studies (364) Time: 10:00 a.m. Venue: Zustrumentation Room 09-02-2019 The weeting started with a prayer song by Dr. A. Anto Arachia Ray, Bible reading by or c. Christopher and prayer by Dr. M. Baby Mariyatra. Dr. Y. Jeya Vinse Ruban welcomed the board. Or. S. Stanly John Xavier read the minutes of the previous Board of Studies. The Board discussed the Students feed back on curricular aspects conducted by IQAC in NOW. 2018. The responses of the students showed that the syllabus meets all the needs of the present scenario. The Board appreciated the contents of the syllabus The board appreciated the allied syllabus and in the next syllabus revision. The board suggested to introduce more elective subjects and to conduct parallel classes for elective papers giving opportunity to the students to make their own choice. Such papers are solid state chemistry and material acience (in Cen 1) Dismolecules and Medicinal chamistry (in sem 10) and Analytical Techniques and Industrial chemistry (menv) The board also suggested to have practical components in the elective papers. Computer Applications can be taught in the place of pharmaceutical chemistry for two hours in remester I. Water analysis has to be included in the analytical clemistry practicel in sem 11. Board suggested to include laboratory safety measures in any one of the papers. The Board suggested the conversion of everyday chemistry (SBES) paper into a practical one and also to have thermodynamies as Sst in 1 semester The Board enggested introducing more election papers for M.Sc programme which would increase employability of the students. The suggested elective papers are Chemistry of vanomaterials, solar cell appliant and andustical caralysis. m.S. Sehrakman, HOD chein

Board of studies (37 1/2) 08-02-2020 Time: 10.00 am mo skinue: Staff room a cham) 1. Br. A. Vijayakumar (External) Aux Professors of chamistry in Not present Loyda College, Chemnai Ly. 2. Dr. Ananda Ratchagan (External). Nox present Associate Professor of chemistry Islamiah College (Autonomas) Newtown, Variyambadi 635 752 3. Dr. S. Joseph Selvaraj, (Alunni) - Not present Associate Professor, St Tozephi College (Autonomras).

Trichy: 94425- 79828 4. Do. A. Pondurangan, (U. Norim). Not present. Asox Reference of chemistry Anna University, Guindy 5. Dr. V. Teyabal 6 dr. S. Stanly John x avier , sx 7. Dr. S. Mary Jelastin Kala & 8. Dr. C. Maria Magdalane 9. Dr. Y. veya Vinse Ruban for Dr. M. Baby Mariyatra 2 11. Dr. C. Christopher ON 12. 80. A. Auto Arockiaraj de 13. Mr. U. Teyapaul 26 (14).
14. Mr. A. Terold Antony 1500)
15. 8r. D. Teyakumar 16. Greaffrey Bellson Daniel. D. 17CHE 12 17 - Esakki Muthu E 18 P.CH 09 8. Daniet P. Esablinton.



Mr. Antony Martin - Ovelid Phan (Alumnus) Or Abraham John - Grandhi Gram University Dr. Gr. Granakuma - Madurai Kamaraj University Dr. Augustin Arml Prasath - DG Vaishnawa College & Ramesh - Kalasalnigam University & F. Subramani. Head, Phar. Chem. M. S. University. In the syllabors book printed in 2018, SBES and SBE6 in III and IV semesters were tourd witerchanged. A letter was given to Fr. Pricipal and controller of examinations on 20.06.2019 to have SBE5-18USB32 Material scien in III semester, and SBEG. 18USB41 Everyday chemi ni Ir semester. The letter was presented before The board for ratification Collecteur 08/02/ Dr. m. S. Selvakumar. HOD, Chemisky. Dr. M.S. SELVAKUMAR M.Sc. M.Phil. Ph D. Asst. Prof s or & Head Departmen commistry St. Xavier's College (Autonomous) Palayamkotta) - 627 002

Board of studies (38th) venue: M-32 Date: 06/02/2021 Time: 10.00 am 1. Dr. G. Ginanakumar (External Expirit) G. Grana kumes Head, Dept. of Physical Chemistry Madurai Kamaraj University 95857-52997 2. Dr. E. Subramanian (External Expert) - ABSENT Head, Dept. of Pharmaceutical chamistry Manonmarian Sundaranar University 99651-78458 Qui 3. Dr. P. Rameshkumar (Alumnus) Assistant Professor, Kalasalingam University Srivilliputher-626128 8012923515 4. Mr. J. Antony Raj (Industry person) Technical managers, m/s Agaram Paints (P) Limited ABSENT NO: 45/142, Karunarithinagar, Thiruchardur road. 7uticorin - 628008 77080,64035 5. Dr. V. Jeyabal 6. Dr. M.S. Selvakumar Lowle 7. Dr. S. Stanky John Karrier Stone 8. Dr. S. Mary Jelastin Kala W 9. Dr. C. Maria Magdalane 110. Dr. M. Baby Mariyathra 11. Dr. c. Christopher Ohiely 12. Dr. A. Anto Arockiaraj J. Jub Frochin But 13. Mr. V. Jeyapaul. 20phise 14 Mr. A. Jerold Antony W. Jerold Undy. 15 Dr. D. Jayakumar Dogla 16 Dr. R. Ganesa moorthi forki 17 Ms. P. Muthu Shobana 19 PCHO9 Protest Hapost 18 Ms. S. A. Helstina Jisha 1844626

minutes of Board of studies (38th) Venue: M.32 06-2-2021 Time: 10:00 am The meeting started at 10.00 am on 06/02/2021 in the chemistry department class soom M.32 with a prayer by Dr. A Anto Arockiaraj. Dr. D. Jeya kumar welcomed the board. Dr. y. Jaya Vinse Ruban read the minutes of the previous board of studies. The board discussed the PG syllabus and suggested the following points. . The practical course pattern can be redesigned in such a way that each semested carries one practical paper. a mapping of syllabus with Bloom's taxonomy cas be done. + A brief presentation of syllabors is needed for physical chamistry papers. + Entroduction of separate question patterns and arrigoments for fast learners. + Increase the credit for the project work. + The syllabus of the fourth semester can be minimized, so that students can concentrate more on project work. . The course outcomes for all the topics to be checked . specific taking into account of employment, research and higher studies. The board appreciated the content of the PG syllation with a Lew Corrections in physical chamistry. The U.G Syllabor was discussed. The board gave the approval to convert the SBB papers material science in the III semester and Everyday Chemistry in the IV semester into practical oriented papers. The board suggested to restricture all the fine viite of the electrice paper in the I semester. Water quality prameters such as TDS, cap and Bad have to be included in

agricultural chemistry paper. unique proporties of none materials can be incorporated in the Unit IV of inorganic chemistry III. Board aslad to give the enpansion of all the abbreviations present throughout the syllabus. The board appreciated the US syllabus for its course content and having self study prostron in all the units Dr. M.S. Selvakumor proposed the vote of thanks and the meeting come to an end at 1.40 pm. 4 John Ruh 6/2/4 Can (Ity Expert) Dr. y. Jaya Vinse Rukos Head, Dept. of Chemistry Ty Viraniveli Dr. Veneral June (Wingers) Desistant Protection of Charisty Kalasalingan University wii ligathi Mrs. J. Antony Rej (2, Inches by) Selfied Maryer William Print 114 -Dr. Y. Jegobel Dr. M. Selvalumar Dr. S Maria Teleption Kala o Dr. C Mark Magdalana or m. Chy many when

Board of studies (39th) Date: 23/04/2022 Time: 10.00 am Venue: M.32 (Dr. J. Annaraj (University Nominee) Head, Dept. of material Science, School of Chamistry, Madurai Kamaraj University, Madurai. - ABSBNI. G. Grana Kurm 23/4/72 2 Dr. G. Grana Kumar (Subj Expert) Head, Anovate Profesor of Chamistry School of Chemistry, MKU, Maduroi 3 Dr. E. Subramarian (Subj. Expert) Head Dept of phormaceutial chemistry, ABSENT m.s. University, Tiranelveli 99651-78458 4. Dr. Ramesh Kumer (Alumnus) ABSENT Assistant Profesor of Chamistry Kalasalingam University, Srivilliputhur 80129-23515 5. Mr. J. Antony Ray (Industry) Technical Manager, m/s Agaram Paints Ltd, 40/142, Karunanithinger Tiruchendur Road, Taticonin, ABSENT 6. Dr. Y. Jeyabal Pare Min 7. Dr. m. S. Selvakumar 8. Dr. S. Stanly John Davier 9. Dr. S. Mary Jelastin Kala 1 10 Dr. C. Maria Magdalane A 11 Dr. M. Baby Manyathra 12 Dr. C. Christopher Prise & 13. Dr. A. Anto Anockiary 14 Dr. V. Jeyapaul 15 Mr. A. Jerold Antony 2010 16. Dr. D. Jayakumar.

17 Dr. R. Ganesa Moorthi Shini 18 M. Madasamy 20PCH519 M. Madasa 19

Minutes of Board of Studies (39th)

Date: 23/04/2022 Time: 10.00 am Venue: Room No M.32

The meeting started with the prayer by Dr. A. Anto Arockia Raj. The Board was welcomed by Dr. M.S. Selvakumar and minutes of the previous board of studies was presented by Dr. Y. Jaya Vinse Ruban.

The board discussed the PG syllabus and the following suggestions came out.

- In Inorganic chemistry II (Code 21PGCH22) paper, STYX number has to included in unit IV.
- In Physical chemistry I (code 21PGCH13) paper, aim, meaning of ensembles, polyatomic molecules and population inversion have to be removed from Unit V.

The UG syllabus was discussed.

- In Food chemistry (21UNM11) Immediate, Cytotoxic, Immune-complex mediated and delayed hypersensitivity reactions have to be included in Unit II.
- The professional English paper (21USB22) was completely restructured with the following unit wise contents.

UNIT - I -Communication

Listening – Listening to recorded talks / lectures by specialists on subject specific topics - and answering comprehension exercises (inferential questions).

Speaking - Small group discussions on operational techniques of few industrial processes (the discussions could be based on the listening and reading passages) - open ended questions.

Reading - Two subject-based reading texts followed by comprehension activities /exercises.

Writing - Summary writing based on the reading passages. Grammar and vocabulary exercises / tasks to be designed based on the discourse patterns of the listening and reading texts in the book.

UNIT - II - Description

Listening - Listening to a Chemical product development - Drawing a flow chart.

Speaking - Facts- Just - A Minute Activities.

Reading - reading texts on advertisements (on products relevant to the subject areas) and answering inferential questions.

Writing - Dialogue writing - writing an argumentative / persuasive essay.

UNIT - III - Negotiation Strategies

Listening - Listening to interviews (subject related).

Speaking - Interviews with subject specialists (using video conferencing skills) - Narrating stories on given subject topics.

Reading - Selected sample of Web Page (subject area).

Writing - Comparative study on different groups of periodic table-Development of modern periodic table.

Reading Comprehension - Essay on Pro and Cons of industrial world. The essay will address all aspects and impacts of industrialization in environmental and commercial sectors.

UNIT - IV - Presentation skills

Listening to short (2 to 5 minutes) academic videos (prepared by EMRC / other MOOC videos on Indian academic sites.

Speaking - Making oral presentations through chalk and board/Power point (subject based).

Reading - Essay on Creativity and Imagination (subject based).

Writing - Basic writings related to accidental discoveries in science. Poster making - writing slogans /captions (subject based).

UNIT - V - Critical Thinking Skills

Listening: Listening to the talks Nobel laureates (subject based)

Speaking - Portraying scientists (any scientists)

Reading- Product Profiles, Circulars, Review articles.

Writing - Problem and Solution essay (one or two specific issues) - Creative writing- summary

Board recommended having only internal mode of evaluation for the professional English paper.

- Board agreed to make MoU with Dr. G. Gnanakumar, Head In-charge, Department of Physical Chemistry, Madurai Kamaraj University, for sharing research and laboratory facilities available in the department.
- Board also suggested to sign MoU with UCST university of Malaysia for student-teacher exchange programme.

 ORD college for women.
- Board recommended to take steps to sign MoU with the SFR college for women (Autonomous), Sivakasi for computational studies.
- Board also recommended to have internships with Prof. B. Karthikeyan, Dept. of Chemistry, Annamalai University for instrumentation facilities.

Dr. C. Christopher thanked the board members and the meeting came to an end at 1.15 pm.

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Department of Chemistry

ST. Xavier's College (Autonomous), Palayamkottai.

Minutes of the Board of Studies (43rd)

The Board of Studies Meeting of the Department of Chemistry was held on 23.02.2024 in the department (M-32) at 10.00 am. The meeting stated with a prayer by Dr. A. Anto Arockia Raj followed by the welcome address by Dr. M.S. Selvakumar.

Agenda of the meeting

- 1. Minutes of the previous Board of studies meeting.
- 2. Finalizing the detailed syllabus for both UG and PG.
- 3. Any other matter.

Members present

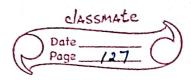
1. Dr. B. Karthikeyan (Subject Expert)

Associate Professor, and Dy. Director in DRD Department of Chemistry
Annamalai University, Annamalai Nager-608002

2. Dr. M. Kannan (Alumnus)

Assistant Professor, Department of Chemistry, Thiruvalluvar College, Papanasam, Vickramasingapuram-627425.

- 3. Dr. V. Jeyabal, Associate Professor, Department of Chemistry, SXC-627002.
- 4. Dr. M. S. Selvakumar, Assistant Professor, Department of Chemistry, SXC-627002.
- 5. Dr. S. Stanly John Xavier, Assistant Prof., Department of Chemistry, SXC-627002.
- 6. Dr. S. Mary Jelastin Kala, Assistant Prof., Department of Chemistry, SXC-627002.
- 7. Dr. C. Maria Magdalane, Assistant Prof., Department of Chemistry, SXC-627002.
- 8. Dr. M. Baby Mariyatra, Assistant Prof., Department of Chemistry, SXC-627002.
- 9. Dr. C. Christopher, Assistant Prof., Department of Chemistry, SXC-627002.
- 10. Dr. A. Anto Arockia Raj, Assistant Prof., Department of Chemistry, SXC-627002.
- 11. Dr. U Jeyapaul, Assistant Prof., Department of Chemistry, SXC-627002.
- 12. Dr. A. Jerold Antony, Assistant Prof., Department of Chemistry, SXC-627002.
- 13. Dr. D. Jayakumar, Assistant Prof., Department of Chemistry, SXC-627002.
- 14. Dr. R. Ganesamoorthi, Assistant Prof., Department of Chemistry, SXC-627002.
- 15. Miss. J. S. Akshayaa (23PCH505) I M.Sc., Chemistry SXC -Student representative.



The following members could not attend the meeting due to various reasons.

1. Dr. S. Murugesan (University Nominee)

Professor, Department of Inorganic Chemistry, M.K. University, Madurai- 625 021

2. Dr. P. Suresh (Subject expert-I)

Assistant Professor, Dept. of Natural Products Chemistry, School of Chemistry, M.K. University, Madurai 625 021

3. Dr. Alagarsamy Pandikumar (Industrial Expert)

Senior Scientist, CSIR-CECRI

Karaikudi- 630 003.

Dr. Y. Jaya Vinse Ruban, HoD read the minutes of the previous board of studies meeting and got the approval.

Based on the discussion on the UG course pattern, the following suggestions were made by the board.

- Project and Viva Voce can be incorporated in the final semester by reducing the hours from other major papers.
- Theoretical, computational work and green reactions with green solvents can be given for project work.
- In Inorganic chemistry-I of semester III include the charge values in all the ions.
- Add sulphate instead of sulphide in semester III major practical paper.
- Include the latest edition reference books in all units.
- In material science paper interchange Unit- II and Unit- III and rename unit- I as Introduction to Materials.
- Carry out microscale techniques in qualitative analysis.
- Include factors affecting chemical shift in the Unit IV of Organic chemistry III.
- From "Thermodynamics and solid state" paper remove fullerene, clay, Zeolites and its applications and add Plane and line defects.
- In allied chemistry II (for Physics) change the title of Unit-I as Fundamentals of organic chemistry, include M.O diagram of N₂ in unit-II and Remove soap and cleansing action from unit-V. In the same paper remove metallurgy from unit-II.
- The Board recommended to follow Bloom's taxonomy in Question setting.

Based on the discussion on the PG course pattern, the following suggestions were made by the board.

• In "organic synthesis and photochemistry" paper include retrosynthesis in stereochemistry and remove synthesis of stereochemistry controlled products in Unit-I. Include the reference book "Organic Synthesis -The disconnection approach" by Stuart Warren, Wiley Student Edition.

- In Quantum chemistry and group theory paper add "Hybridization of methane" and remove molecular vibration in unit-V
- In Physical Chemistry Practical-I include Mixture of halides in potentiometric titrations.
- In Coordination chemistry-II include M.O approach to bonding in "Ferrocene" and remove "metallocene".
- In electrochemistry paper replace the title of the Unit-I by theory of electrolytes and Interchange Unit-II and Unit-III.
- In Physical chemistry practical-II unit I include I₂ in CCl₄ and water instead of benzene and water and in Unit-II replace binary system as simple systems.

Dr. C. Christopher thanked the board members and the meeting came to an end at 12.50 pm.

1. Dr. B. Karthikeyan

Brie

2. Dr. M. Kannan

3. Dr. V. Jeyabal

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4. Dr. M. S. Selvakumar

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5. Dr. S. Stanly John Xavier

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6. Dr. S. Mary Jelastin Kala

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7. Dr. C. Maria Magdalane

8. Dr. M. Baby Mariyatra

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9. Dr. C. Christopher

10. Dr. A. Anto Arockia Raj Y. July Froches &

11. Dr. U Jeyapaul

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12. Dr. A. Jerold Antony

13. Dr. D. Jayakumar

14. Dr. R. Ganesamoorthi

ii Smit

15. Miss. S.

(23PCH508) NSWYO

Signature of the HOD

Dr. Y. JAYA VINSE RUBAN, Ph.D.
Head, Assistant Professor
Department of Chemistry
St.Xavier's College (Autonomous)
Palayamkottai - 627002

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Department of Chemistry

ST. Xavier's College (Autonomous), Palayamkottai.

Minutes of the Board of Studies (44th)

The Board of Studies Meeting of the Department of Chemistry was held on 01.02.2025 in the department (M-32) at 10.00 am. The meeting stated with a prayer by Dr.C. Christopher followed by the welcome address by Dr. A. Anto Arockia Raj.

Agenda of the meeting

- 1. Minutes of the previous Board of studies meeting.
- 2. Marking Skill based and Indian Knowledge system based content in the curriculum
- 3. Identifying equivalent NPTEL/SWAYAM courses for the existing courses.
- 4. Any other matter

Members present

1. Dr. B. Karthikeyan (Subject Expert)

Associate Professor, and Dy. Director in DRD Department of Chemistry Annamalai University, Annamalai Nager-608002

2. Dr. M. Kannan (Alumnus)

Assistant Professor, Department of Chemistry, Thiruvalluvar College, Papanasam, Vickramasingapuram-627425.

- 3. Dr. V. Jeyabal, Associate Professor, Department of Chemistry, SXC-627002.
- 4. Dr. M. S. Selvakumar, Assistant Professor, Department of Chemistry, SXC-627002.
- 5. Dr. S. Stanly John Xavier, Assistant Prof., Department of Chemistry, SXC-627002.
- 6. Dr. S. Mary Jelastin Kala, Assistant Prof., Department of Chemistry, SXC-627002.
- 7. Dr. C. Maria Magdalane, Assistant Prof., Department of Chemistry, SXC-627002.
- 8. Dr. M. Baby Mariyatra, Assistant Prof., Department of Chemistry, SXC-627002.
- 9. Dr. C. Christopher, Assistant Prof., Department of Chemistry, SXC-627002.
- 10. Dr. A. Anto Arockia Raj, Assistant Prof., Department of Chemistry, SXC-627002.
- 11. Dr. U Jeyapaul, Assistant Prof., Department of Chemistry, SXC-627002.
- 12. Dr. A. Jerold Antony, Assistant Prof., Department of Chemistry, SXC-627002.
- 13. Dr. D. Jayakumar, Assistant Prof., Department of Chemistry, SXC-627002.
- 14. Dr. R. Ganesamoorthi, Assistant Prof., Department of Chemistry, SXC-627002.

The following members could not attend the meeting due to various reasons.

1. Dr. S. Murugesan (University Nominee)

Professor, Department of Inorganic Chemistry, M.K. University, Madurai- 625 021

2. Dr. P. Suresh (Subject expert-I)

Assistant Professor, Dept. of Natural Products Chemistry, School of Chemistry, M.K. University, Madurai- 625 021

3. Dr. Alagarsamy Pandikumar (Industrial Expert)

Senior Scientist, CSIR-CECRI Karaikudi- 630 003.

Dr. Y. Jaya Vinse Ruban, HoD read the minutes of the previous board of studies meeting and got the approval.

Based on the discussion on the UG curriculums following contents are identified marked for skill enhancement and IKS.

All the 19 courses coming under practical and SEC are skill oriented courses.

General Chemistry I

Skill: Building atomic models to represent protons, neutrons, and electrons to manipulate and visualize the structure of atoms and chemical bonds.

Interactive periodic table of elements.

Chem3D (Avogadro. PyMOL, Chimera & ChimeraX) to create 3D models of molecules and the overlap of atomic orbitals.

Understand the nature of conductors and insulators through practical experiment utilizing everyday objects.

IKS: Indian Alchemy and periodic properties

Five Elements correlation with matter and hybridization

Organic Chemistry I

Skill: Making molecular models

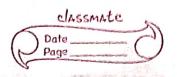
Conformational studies of molecules

Specific rotation of molecules

IKS: Copper Vessels for various treatments

Neem and Copper extract

Organic Chemistry II



Skill: Preservatives, Artificial sweeteners

IKS: Alcohols and Ayurvedic Medicine.

Organic Chemistry III

Skill: Knowledge exposure to fertilizers

Interpretation of Molecular spectrum

IKS: Bioluminescence in fire flies

Organoleptic evolution

Organic chemistry IV

Skill: Exposure to Rubber industries.

Interpretation of and connecting various spectral data

IKS: Proto-glass (faience)

Neel (Indico Dye)

Inorganic Chemistry I

Skill: Working principle and infrastructure of Koodamkulam Nuclear power station

Differences between Koodamkulam and Kalpakam power stations

Analytical techniques

Model making of Xenon Compounds

Identifying the sources of calcium carbonate

IKS: Elements in natural plant materials

Inorganic Chemistry II

Skill: Knowledge exposure on extraction of transition metals

Separation techniques of lanthanides

Gravimetric precipitation experiments for the determination of Sulfate, Barium,

LeadCalcium, Nickel and Copper

IKS: Extraction of metals Fe, Cu and Zn (Zawar Mines)

Au, Ag and mercury compounds in ayurveda

Ash content analysis in ayurveda (Triphala was burned to determine its mineral residue)

Inorganic Chemistry III

Skill: Calculation of CFSE

IKS: Metals in Siddha Medicine

Physical Chemistry I

Skill: Pressure-Volume studies

Demonstration of Tyndall effect

Making of Emulsion

IKS: Sooranam preparation in siddha medicine

Indian method of bleaching Native Zeolite applications

Physical Chemistry II

Skill: Differentiation of weak and salt electrolytes using conductance

IKS: Tamarind-salt mixture for UTI treatment

Thetran seed for Purification of water

Raman Effect.

Physical Chemistry III

Skill: Polarization studies

Construction of Leclanche Cell

Material Science

Skill: Measurement of resistance

Preparation of nanoparticles.

Guay balance experiments

Solar cells

IKS: Different forms of ores

Thermodynamics and Solid State

Skill: Comparison of heat capacities of solids

Crystallization

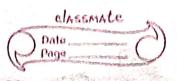
IKS: Various salts and their crystalline form in Indian medicine.

Board suggested "Programming in Modern C++ "from NPTEL/SWAYAM to substitute "Computers in chemistry" paper,

Based on the discussion on the PG course pattern, the following suggestions were made by the board.

All the 07 courses coming under practical, Internship, mini project, Project and SEC are skill oriented courses.

Organic Reaction Mechanism-I



SKILL: Making models for cis-trans Decalins

IKS: Ancient Indian Alchemical Lab (Rasashala)

Structure and Bonding in Inorganic compounds

SKILL:: Making models for boranes, polymeric sulphur nitride and polynitrilic chlorides

IKS: History of Diffraction studies by Aryabhatta

Nano and Supramolecular Chemistry

SKILL: Making models for Fullerenes

IKS: Synthesis and characterization of metal powders (parpadam)

Molecular Spectroscopy

SKILL: Interpretation of given compounds using spectral datas

IKS: History of Raman Effect

Organic Reaction Mechanism-II

SKILL:: Conversion of Benzil to Benzilic acid

IKS: Ancient Indian Alchemical Lab (Rasashala)

Calcium absorption by Cissus Quadrangularies (pirandai)

Inorganic chemistry Practical-II

IKS: Preparation of various types of Rasam (Tomato, lemon, tamarind, pepper) pH analysis of food products.

Bio Inorganic Chemistry

SKILL: Animation of Sodium-potassium pump, Eversion

IKS: Nitrogen Fixation by Legume Plants

Medicinal Chemistry

SKILL: Preparation of paracetamol and Aspirin

IKS: Medicinal role of Vitex negundo (Notchi)

Kitchen remedies for common diseases

Chemistry in consumer Products

SKILL:: Visit to Soap, fireworks, matches and dairy Industry

Organic synthesis and Photochemistry

Interchange of Paterno Buchi reaction from Unit-IV to Unit-V Removal of photon energy transfer reaction

SKILL: cis trans isomerisation- formation of Vitamin D in sunlight

Photoreduction of benzophenone to benzpinacol

IKS: Various reactions involved in Ancient Indian Alchemical Lab.

Coordination Chemistry-II

SKILL: Prepare some metal complexes and study their Tanabe-Sugano diagram prepare some metal complexes and study their molar conductance. Models for ferrocene and Half sandwich compounds, piano-stool molecules

IKS: History of colours in paints

Quantum Chemistry and Group Theory

SKILL : Add hybridization of acetylene in Unit-V

Removal of calculation and delocalization energy of 1,3-butdiene and benzene

IKS: Study of electrons and atoms from Ancient Tamil Literature from Thirumandhiram

Thermodynamics and chemical Kinetics

SKILL: Numerical calculation on Partition Function

IKS: Kinetic techniques involved in metallurgy medicine preparation in ancient Indian Literature.

Influence in thermodynamics by five Elements (panchaboodham)

Electrochemistry

SKILL: Construction of electrochemical cell (Daniel Cell)

IKS: Ancient Indian Iron making Process

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Mini Project

Give some experiments to do using Journal of Chemical Education.

New Scheme of Valuation for all Practical papers has been approved.

Dr. M. Baby Mariyatra thanked the board members and the meeting came to an end at 12.45 pm.

1.	Dr. B. Karthikeyan	B. C. + 112125
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2. Dr. M. Kannan

3. Dr. V. Jeyabal

4. Dr. M. S. Selvakumar

5. Dr. S. Stanly John Xavier

6. Dr. S. Mary Jelastin Kala

7. Dr. C. Maria Magdalane

8. Dr. M. Baby Mariyatra

9. Dr. C. Christopher

10. Dr. A. Anto Arockia Raj

11. Dr. U Jeyapaul

12. Dr. A. Jerold Antony

13. Dr. D. Jayakumar

14. Dr. R. Ganesamoorthi

ignature of the HOD Dr. Y. JAYA VINSE RUBAN, Ph.D.

Head, Assistant Professor Department of Chemistry St.Xavier's College (Autonomous)

Palayamkottai - 627002