

BOS 2019-2020

Date : 29.02.2020

Time : 10 a.m

External Members :

1. Dr. V. S. Vasantha (University Nominee). ABSENT
Professor, Chair person (I/c)
Department of Natural Products
MKU, Madurai

2. Dr. S. Abraham John.
Professor of Chemistry,
The Gandhigram Rural Institute
(Deemed to be University)
Gandhigram.

S. A.
29/2/20

3. Dr. N. Rama,
Associate Prof + Head,
Dept of Chemistry,
Sarah Tucker College
Trinelveli (MS University). ABSENT

4. Miss. P. Sharmila, (Alumnus).
Assistant Chemistry,
Keswick Public School, (ICSE),
Madurai

P. R.
29.2.20

Internal Members:

1. Dr. S. SelvaRani (HOD)
2. Dr. B. Medana.
3. Dr. S. Sukumari
4. Dr. A. Rajeswari
5. Dr. B. Vinusha
6. Dr. B. Sugandhana
7. Dr. Sr. Azul Mary.
8. Mrs. R.M. Nagalakshmi
9. Mrs. M. Priyadharshini
10. Mrs. V. Azul Deepa.
11. Dr. R. Sarika.
12. Dr. K.R. Subi Mol.

S. SelvaRani
B. Tedona
S. M. S.
B. Vinusha
B. Sugandhana
Sr. Azul Mary
R.M.
M. Priyadharshini
V. Azul Deepa
Sarika
K.R. Subi Mol.

All the suggestions from the previous board (2019-20) were carefully taken into account, necessary changes made in the Syllabi of I & II Semester major papers and implemented from 2019-2020 academic year onwards.

Agenda:

Contents for III & IV Semester papers to be presented for approval.

PG Syllabus for new theory paper in III Semester and Physical Chemistry practicals to be finalised.

Review of all the other papers/courses in V & VI Sem in UG and other PG papers.

One panel of examiners for all the external end Semester practical examinations

including the Viva-Voce examination for II PG Project.
Change of course title for all theory and Practical Courses.
Comments, suggestions and appreciation by the Board.

* All theory papers to be shared by more than one person.

* Appreciated the department for handling all the courses successfully though the contents seem to be very heavy.

* Appreciated the practice of sending the II M.Sc students to world known reputed institutions/organizations like IGCAR, DRDO, CECRI, IIT (Palakkad) (This year 2020-21) and other research centres in and around Madurai.

The following suggestions were made in the curriculum which will be implemented from the forthcoming academic year.

19C3CC7 : Unit II Interhalogen Compounds

BrF_3 , IF_3 , ClF_5 , IF_5 removed

19C3CC8 : Physical Chemistry

Instead of Nuclear Chemistry and Radiation Chemistry, the unit titles are changed as Nuclear Chemistry I & Nuclear Chemistry II. Application should be brought down as the last unit in Nuclear Chemistry.

19C3CC9 - Inorganic Qualitative Analysis.

Only Eco friendly radicals are to be

Retained in the syllabus, Hg^{2+} , Ag^+ arsenic antimony to be deleted.

19C3SB1 - Agricultural Chemistry.

Water Analysis to be added in unit V along with Soil analysis.

Organic farming can be added in IV unit. In Pesticides unit (III) natural pesticides to be added.

19C4CC10 : Co-ordination Compounds

Butadiene deleted $Co(CO)_8$ & $Fe_2(CO)_9$ to be brought as self study portion.

19C4CC11 (Physical Chem), 19C4CC12 - Org Analysis - no changes made.

19C5CC13 : Organic Chemistry

Optical activity of compounds other than Carbon (i.e. Nitrogen and Sulphur) not to be deleted but need not be discussed in a detailed manner.

Diekmann rearrangement brought from Unit I to Unit II.

19C5CC14 : Physical Chemistry II.

Problems in Thermodynamics and point group for specific molecules to be added in the self study portion.

The units are renamed as follows:
Unit I. Thermodynamics - I Law
Unit II. II Law of Thermodynamics

Unit II: Applications & Law

Unit IV: Group theory.

Unit V: Phase rule.

19C5 ME1: Spectroscopy Instead of IR - FTIR

Self study - Application/factors affecting ^1H nmr.

19C5 SB4: Nanochemistry changed to Nano Science.

All the VI Semester theory & Practical paper checked & approved.

PG: From next academic year onwards Instead of 2 papers (8 hrs/week), 3 papers (6 hrs/week) to be offered Third paper - Green Chemistry in II Semester. Syllabus presented

19PG3 C11 - Organic Chemistry

Allyl System in Pericyclic Compounds, 1,3 dipolar addition, Instrumentation (Spectral techniques) & in double resonance to be deleted

NMR Restricted rotation upto AMX, ABX, A_2B_2 only to be included 19PG3 C11: contents to be elaborated, Props & Instrumentation to be split up.

19PG3 C13 - Green Chemistry; 12 principles to be included, Instead of Case study, Application of greentechniques in industries.

Contents of Physical chemistry lab were much appreciated. Board Member strongly suggested to have only one End Semester exam for Physical Chemistry lab (6 hrs/week). If at all it is ^{to be} offered in two Semesters Electrical expts in one Semester (6 hrs/week) & Non electrical expts (6 hrs/week instead of 8 hrs/week).

The following are the panel members for Practical/Viva voce exam

- | | |
|--------------------------------------|-----------------------------------|
| 1. Dr. P. Thamaraj (TC, Mdu) | 7. Dr. Hariharan (Madma college) |
| 2. Dr. Plangoan (TC, Mdu) | 8. Dr. Karthick (AC, Mdu) |
| 3. Dr. Dorothy Sheila (AC, Mdu) | 9. Dr. Remona (Meenakshi college) |
| 4. Dr. Rayappan (Karumathur college) | 10. Dr. Prakash (T-C, Mdu) |
| 5. Dr. Gajendran (Madma college) | |
| 6. Dr. Gubendran (SN college) | |

J. A. S.
29/2/20

S. Selvakani

B. Tedena.

Sum. 5.

R. J. m.

Rm. M.

Bino Sud

Ariska

M. Puig. d.

V. Anlehn

B. J. m.

29/02/2020