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No. 16

KARPAGAM ACADEMY OF HIGHER EDUCATION, COIMBATORE – 641 021

Minutes of the Meeting of Board of Studies 2015-16

Minutes of the meeting of the Board of Studies in **Chemistry** held on **17-04-2015** at **10.00 am.**

Members Present

- | | |
|---|-------------|
| 1. Dr.S.Ravi,
Professor & Head,
Department of Chemistry,
Karpagam Academy of Higher Education,
Coimbatore-641021 | Chairperson |
| 2. Dr.K.J.Rajendra Prasad,
Professor & Head,
Department of Chemistry,
Bharathiar University,
Coimbatore 641 046 | Member |
| 3. Dr.T.Santhi,
Associate Professor,
Department of Chemistry,
Karpagam Academy of Higher Education,
Coimbatore-641021 | Member |
| 4. Dr.A.Thangamani,
Assistant Professor,
Department of Chemistry,
Karpagam Academy of Higher Education,
Coimbatore-641021 | Member |
| 5. Mrs. S.Velrani,
Assistant Professor,
Department of Chemistry,
Karpagam Academy of Higher Education,
Coimbatore-641021 | Member |
| 6. Dr.A.V. Saranya
Lecturer,
Pollachi Institute of Technology
Pollachi, Coimbatore | Alumini |

The Chairperson welcomed the members of the Board. The Board carefully scrutinized the draft syllabus/syllabi of the following courses.

1. B.Sc., Chemistry
2. M.Sc., Chemistry
3. Allied Chemistry papers
4. Open elective papers for other discipline students

and approved the same.

The following changes are made in the existing syllabus.

Agenda: 1

1. To consider and approve the Regulations and Syllabus for B.Sc Chemistry Programme.

Resolution: 1

1. Resolved to approve the Regulations and Syllabus for B.Sc Chemistry programme and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

Annexure I

In all the courses approximately 25 **percent change** have been made with respect to the content of the courses and all the courses are considered as **new courses**. In addition to this the following changes have been made.

S.No	Code	Subject Name	Remarks
1	14CHU101	General Chemistry I	Unit IV And V Were Changed
2	14VAE101	Value Education And Healthy Practices	Unit IV And V Were Changed
3	14CHU201	General Chemistry-II	Unit IV And V Were Changed
4	14CHU301	General Chemistry-III	Unit IV And V Were Changed
5	14CHU302	Pharmaceutical Chemistry	Unit IV And V Were Changed
6	14CHU401	General Chemistry	Unit IV And V Were Changed
7	14CHU402	Physical Chemistry	Unit IV And V Were Changed
8	14CHU501	Organic Chemistry	Unit I And III Were Changed
9	14CHU502	Inorganic Chemistry	Unit IV Changed
10	14CHU503	Electrochemistry	Unit V Changed
11	14CHU504	Recent Trends In Chemistgry	Unit IV And V Were Changed
12	14CHU505A	Green Chemistry	Unit II And IV Changed
13	14CHU505B	Environmental Chemistry	Unit I And V Changed

14	14CHU505C	Bioinorganic Chemistry	Unit III And V Changed
15	14CHU511	Chemistry Practical-V(A)Gravimetric Analysis	Three New Practical's Added
16	14CHU512	Chemistry Practical-V(B)-Physical Chemistry	Three Practical's Changed
17	14CHU601	Chemistry Of Natural Products	Unit IV And V Were Changed
18	14CHU602	Physical Methods & Chemical Structures	Unit II And IV Were Changed
19	14CHU603	Agro Industrial Chemistry	Unit IV And V Changed
20	14CHU605A	Radiation Chemistry	Unit I And V Changed
21	14CHU605B	Surface Chemistry	Unit V Changed
22	14CHU605C	Chemistry Of Materials	Unit IV And V Changed

- The compulsory Elective "Allied Physics (Paper I & II; 15CHU102, 15CHU112, 15CHU202 and 15CHU212) course (Both theory and practical)" has been placed in the first year. In the second year, for the allied elective three choices are provided.
 - Allied Mathematics (Paper I & II; 15CHU303A, 15CHU403A)
 - Allied Statistics(Paper I & II; 15CHU303B, 15CHU403B)
 - Allied Pharmaceutical Chemistry(Paper I & II; 15CHU303C and 15CHU403C)
- The following allied elective courses has been prepared and discussed in addition to the regular Allied chemistry (Paper I & II;) and the Allied Chemistry Practical (I & II).
 - Allied Chemistry for Mathematics (Paper I & II)
 - Allied pharmaceutical chemistry (Paper I & II).
- The courses under the CBCS, Elective I (Green Chemistry , 15CHU505A ; Environmental Chemistry , 15CHU505B and Bioinorganic Chemistry , 15CHU505C) & Elective II (Radiation Chemistry , 15CHU603A ; Dye Chemistry , 15CHU603B and Chemistry of Materials, 15CHU603C) are placed in the fifth and sixth semester respectively (each 3 No's) were discussed.
- The open elective paper (Chemistry of consumer products, 15OEU501) was added in the semester IV for the students of other disciplines.
- Two self study papers(Leather chemistry-15CHU506) each one for the fifth and sixth semester (Forensic chemistry-15CHU604) has been prepared and discussed.
- A core paper Surface Chemistry (15CHU302) is added in the third semester and Nano Chemistry (15CHU504) has been added in the fifth semester.
- In General Chemistry I (15CHU101), the basic principles of qualitative analysis of cations and anions in a mixture was added instead of "Comparision of physical properties of the rare gases in the periodic table, oxides and oxyacids of halogens and inter halogen compounds."

8. Alkenes from general chemistry II and alkynes from General Chemistry I have been interchanged.
9. In General Chemistry I, The unit IV and V were merged together and instead a new unit on periodic table and periodic properties has been included.
10. In the fourth Semester in the paper Physical Chemistry (Chemical Kinetics-15CHU402) paper Unit IV has been replaced by error analysis.
11. In the sixth semester, in the course Physical methods and Chemical structures(15CHU602) Unit I has been replaced by Chromatographic techniques.
12. All the other course papers were fine tuned based on the inputs from the teachers who has handled the paper.

The marks, Instruction hours and credits were redistributed as per the requirements.

The following courses are new courses

1. Allied Statistics(Paper I & II; 15CHU303B, 15CHU403B)
2. Allied Pharmaceutical Chemistry(Paper I & II; 15CHU303C and 15CHU403C)
3. Two self study papers, Leather chemistry-15CHU506 & Forensic chemistry-15CHU604
4. Surface Chemistry (15CHU302)
5. Nano Chemistry (15CHU504)

Agenda: 2

To consider adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2015-16.

Resolution: 2

Resolved to approve the adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2015-16 (Approved Regulations and Syllabus given in Annexure-II).

1. The courses under the CBCS, Elective I (Advanced Organic Chemistry , Analytical Chemistry , Organometallic Chemistry , Advanced Coordination Chemistry , Organic Chemical Technology - 15CHP204A, 15CHP204B, 15CHP204C, 15CHP204D and 15CHP204E respectively)& Elective II (Polymer Chemistry , Textile chemistry, Industrial Chemistry , Applied Chemistry , Printing Chemistry - 15CHP305A , 15CHP305B, 15CHP305C, 15CHP305D and 15CHP305E respectively) placed in the Second and Third semester respectively(each 5 No's) were discussed.
2. The open elective paper, Chromatographic Techniques (15OEP201) was added in the semester II for the students of other Disciplines
3. The practical working hours has been reduced from 6hrs to 4 hrs (the students has to carryout the calculations at home).

4. All the other course papers were fine tuned based on the inputs from the teachers who has handled the paper.
5. The marks, Instruction hours and credits were redistributed as per the requirements
6. Medicinal and green chemistry paper shifted from IInd semester to Ist Semester.

The following courses are new courses

1. Advanced Organic Chemistry-15CHP204A
2. Advanced Coordination Chemistry - 15CHP204D
3. Organic Chemical Technology -15CHP204E
4. Applied Chemistry-15CHP305D ,
5. Printing Chemistry-15CHP305E
6. Chromatographic Techniques 15OEP201

Agenda: 3

To consider and approve the Regulations and Syllabus for M.Phil and Ph.D programme in Chemistry

Resolution: 3

Resolved to approve the Regulations and Syllabus for M.Phil and Ph.D programme in Chemistry and it comes into effect from 2015-16 (Approved Regulations and Syllabus given in Annexure-I).

UG Programme:

The UG programme for B.Sc Chemistry consists of 50 courses out of which 13 are languages and other non core courses. There is a syllabus change of 29 %

PG Programme

The PG programme for M.Sc Chemistry consists of 30 courses. There is a syllabus change in 11 courses and hence total change = $11/30 * 100 = 36.66\%$

Ph.D programme

Total number of courses present during the year 2014-15 = 11

Total number of courses present during the year 2015-16 = 8

Percentage change in the syllabi = 27.3%



(chairperson)

Head of the Department
Department of Chemistry
Faculty of Arts, Science and Humanities
Karpagam Academy of Higher Education
Coimbatore - 641 021, Tamil Nadu, India.



REGISTRAR
Karpagam Academy of Higher Education
(Deemed to be University Under Section 3 of UGC Act 1956,
Pollachi Main Road, Eachanari Post,
Coimbatore - 641 021, Tamil Nadu, India.)