

**KARPAGAM ACADEMY OF HIGHER EDUCATION**  
COIMBATORE 641 021

Minutes of the meeting of Board of Studies 2016-17

Minutes of the meeting of the **Board of Studies in Chemistry** held on 29<sup>th</sup> March 2016 at 10.00 am.

**Members Present**

- |   |                            |
|---|----------------------------|
| 1. Dr.S.Ravi<br>Professor & Head,<br>Department of Chemistry,<br>Karpagam Academy of Higher Education,<br>Coimbatore-641021             | Chairperson                |
| 2. Dr.S.Muthusubramanian<br>Professor<br>Department of Chemistry,<br>Madurai Kamaraj University,<br>Madurai.                            | External Member (Academic) |
| 3. Mr.Siva Shanmugam<br>Director,<br>M/S Polyhedron Pvt. Ltd.,<br>Erode   | External Expert (Industry) |
| 4. Dr.A.Thangamani<br>Assistant Professor,<br>Department of Chemistry,<br>Karpagam Academy of Higher Education,<br>Coimbatore-641021    | Member                     |
| 5. Ms.R.Sharmila Devi<br>Assistant Professor,<br>Department of Chemistry,<br>Karpagam Academy of Higher Education,<br>Coimbatore-641021 | Member                     |
| 6. Dr.K.Sundaram<br>Assistant Professor,<br>Department of Chemistry,<br>Karpagam Academy of Higher Education,<br>Coimbatore-641021      | Member                     |
| 7. Dr.S.Venkatachalapathi<br>Assistant Professor,<br>Department of Chemistry,   | Member                     |

Karpagam Academy of Higher Education,  
Coimbatore-641021

8. Mr.R.Ramesh	Alumni member
9. Ms.P.K.Aswini	Student Member
10. Ms.P.Kalaiarasi	Student Member

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

and approved the same

The Following changes are made in the existing syllabus considering the employability, entrepreneurship and skill development into consideration.

**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 2016-17 (Approved Regulations and Syllabus given in Annexure-I).

**Annexure-I**

The syllabus suggested by the UGC (Choice Based Credit System) for the B.Sc Chemistry Programme was prepared, discussed and approved in the Meeting

It includes twelve core courses along with practical's, two ability enhancement compulsory papers(AECC), four skill enhancement courses(SEC) and six Department Specific Electives(DSE). Apart from this we have included two papers for Language-1. The total number of credits is 140. Choices have been provided with respect to Discipline specific electives and Skill Enhancement Courses.

All the above courses suggested in the UGC model curriculum (except the language courses) are new courses.

**Agenda: 2**

To consider adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2016-17.

## Resolution: 2

Resolved to approve the adoption of the curriculum of M.Sc Programme for Chemistry from the academic year 2014-15 (Approved Regulations and Syllabus given in Annexure-II).

## Annexure-II

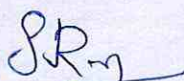
1. In the Semester I, an elective paper was introduced with three choices
  - a. Green Chemistry(16CHP105A)
  - b. Medicinal Chemistry (16CHP105B)
  - c. Molecular Modelling and Drug Design (16CHP105C)
2. The course Green and Medicinal Chemistry (15CHP105) was removed to accommodate the elective paper. By introducing the elective paper the choice of courses available to the student increases.
3. The Open elective course entitled 'Chromatographic Techniques' (15OEP201) in the second semester replaced by one more core course 'industrial chemicals and environment' and the syllabus for the course was made.
4. The existing course Polymer and Nano Chemistry (15CHP304) was replaced by a course on Nano Chemistry(16CHP304) . The Polymer Chemistry was added as an elective paper. The change has been made to increase the content of the courses.
5. In the second semester and third semester two elective papers were retained with the following choice of courses  
Elective II
  - a. Research Methodology in Chemistry(16CHP205A)
  - b. Analytical Chemistry (16CHP205B)
  - c. Organometallic Chemistry (16CHP205C)  
Elective III
  - a. Polymer Chemistry (16CHP305A)
  - b. Textile Chemistry(16CHP305B)
  - c. Advanced Coordination Chemistry (16CHP305C)
6. In the first Semester Organic Chemistry paper I (15CHP101) in the Unit III Vilsmeier-Haack Reaction was added. In the Organic Chemistry II (15CHP201), in the Unit I Hoffmann Rearrangement was added and in Unit IV Di-Pi methane rearrangement was added. In Organic Chemistry Paper III (15CHP301) in Unit II Ozone and diborane reagents were removed (being older reagents) and instead two recent reagents dimethyl sulfoxide and Trimethyl silyl iodide have been added.
7. As suggested by the student representatives, Molecular docking studies was added in the medicinal chemistry paper
8. As suggested by the alumni, Computer aided chemistry was added in the paper Molecular Modelling and Drug design (elective 1).

**Programme:**

The UG programme for B.Sc Chemistry consists of 65 courses out of which 3 are languages. There is a syllabus change in 63 courses and hence total change =  $63/65 * 100 = 96.9\%$

**PG Programme**

The PG programme for M.Sc Chemistry consists of 27 courses. There is a syllabus change in 7 courses and hence total change =  $7/27 * 100 = 25.9\%$



(Chairperson)

Head of the Department  
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**REGISTRAR**  
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