



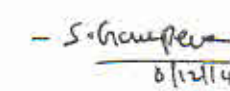



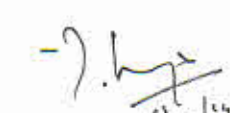
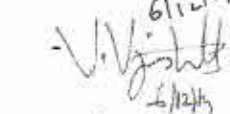






Minutes of the meeting of the Board of Studies (BoS) of Department of Chemistry held on
6-12-2014 at Visiting Lounge, Ground Floor S&H Block

Members

Signature

1. Dr. Daphy Louis Lovenia, Director i/c, School of S&H, KU - 
2. Dr. S. Sundar Manoharan, Professor & Vice-Chancellor, KU - ABSENT
3. Dr. C. Joseph Kennady, Professor & Registrar, KU - 
4. Dr. S. Vasanthkumar, Professor & Head,
Department of Chemistry, Karunya University - 
5. Dr. S. Govindarajan, Professor of Chemistry,
Department of Chemistry, Bharathiar University, Coimbatore - 
6. Dr. K. K. Vijayaraj, Senior Manager-Chemistry synthesis,
Anthem Bioscience Pvt. Ltd, Bangalore - ABSENT
7. Mr. S. Gouse Peera, Sr. Project fellow, CECRI, Chennai Unit, Chennai. - 
8. Dr. A. Samson Nesaraj, Professor of Chemistry, KU, Coimbatore - 
9. Dr. R. Nandhakumar, Associate Professor of Chemistry, KU, Coimbatore - 
10. Dr. I. V. Muthu Vijayan Enoch, Associate Professor of Chemistry, KU, Coimbatore - 
11. Dr. G. Anita Hebsiba, Assistant Professor (SG) of Chemistry, KU, Coimbatore - ABSENT
12. Dr. T. Selvaraju, Assistant Professor (SG) of Chemistry, KU, Coimbatore - 
13. Dr. V. Vijaikanth, Assistant Professor (SG) of Chemistry, KU, Coimbatore - 
14. Dr. K. Parameswari, Assistant Professor (SG) of Chemistry, KU, Coimbatore - 
15. Dr. J. John Rajesh, Assistant Professor (SG) of Chemistry, KU, Coimbatore - 
16. Dr. K. Juliet Gnanasundari, Assistant Professor (SG) of Chemistry, KU, Coimbatore - 
17. Dr. B. Jebasingh, Assistant Professor (SG) of Chemistry, KU, Coimbatore - 

The meeting began with the opening prayer by Dr. K. Parameswari.

Dr. S. Vasanthkumar, Professor & Head, welcomed the external experts and all the faculty members. In his introductory remarks, he briefed about the CBCS system followed from the academic year 2014 – 2015. He insisted that the courses should have employability, encouraging them to become entrepreneur and the laboratory courses and other courses should improve their skill development. Then, the following suggestions were recommended.

1. Course curriculum for M.Sc. Chemistry – Course structure:

After discussion, the M.Sc. Chemistry course structure is formulated as per the details mentioned below:

Sl. No	Sub Code	Name of the Subject	Credits
SEMESTER ONE			
1	15CH3001	Chemical Kinetics and Photochemistry	3:1:0
2	15CH3002	Chemical Bonding and Nuclear Chemistry	3:0:0
3	15CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0
4	15CH3010	Qualitative and Quantitative Inorganic Analysis Lab	0:0:4
5	15CH3013	Modern Instrumental Analysis Lab	0:0:2
6		Soft Core 1	3:0:0
7		Soft Core 2	3:0:0
	(5T + 2L)	Credits (Core = 17, Soft Core = 6, Elective = 0)	23
SEMESTER TWO			
8	15CH3004	Quantum Chemistry and Group Theory	3:1:0
9	15CH3005	Coordination Chemistry	3:1:0
10	15CH3006	Molecular Spectroscopy	3:0:0
11	15CH3011	Qualitative and Quantitative Organic Analysis Lab	0:0:4
12	15CH3014	Preparative Inorganic Chemistry Lab	0:0:2
13		Soft Core 3	3:0:0
14		Value education	2:0:0
	(5T + 2L)	Credits (Core = 19, Soft Core = 3, Elective = 0)	22
SEMESTER THREE			
15	15CH3007	Chemical Thermodynamics and Electrochemistry	3:0:0
16	15CH3008	Organometallic, Bioinorganic and Solid State Chemistry	3:1:0
17	15CH3009	Synthetic Methodology and Natural Products	3:0:0
18	15CH3012	Physical Chemistry Lab	0:0:4
19	15CH3015	Synthetic Organic Chemistry Lab	0:0:2
20		Soft Core 4	3:0:0
21		Elective 1	3:0:0
	(5T + 2L)	Credits (Core = 16, Soft Core = 3, Elective = 3)	22
SEMESTER FOUR			
22		Elective 2	3:0:0
23	FSP3999	Full Semester Project	0:0:20
	(1T + FSP)	Credits (Core = 20, Soft Core = 0, Elective = 3)	23
		Total Credits	90

Credit distribution:

	Credits
Core	72 (52 + 20)
Soft Core	12
Elective	6
Total	90

2. Department core for M.Sc. Chemistry course:

The Department core for M.Sc. Chemistry (2015-2017 batch) is finalized as per the details mentioned in the Table 1. The students should acquire 52 credits and complete a full semester project in their course of study.

Table 1 – Department core for M.Sc. Chemistry course

Sl. No	Sub Code	Program Core – 52 credits & Full semester project	Credits
1	15CH3001	Chemical Kinetics and Photochemistry	3:1:0
2	15CH3002	Chemical Bonding and Nuclear Chemistry	3:0:0
3	15CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0
4	15CH3004	Quantum Chemistry and Group Theory	3:1:0
5	15CH3005	Coordination Chemistry	3:1:0
6	15CH3006	Molecular Spectroscopy	3:0:0
7	15CH3007	Chemical Thermodynamics and Electrochemistry	3:0:0
8	15CH3008	Organometallic, Bioinorganic and Solid State Chemistry	3:1:0
9	15CH3009	Synthetic Methodology and Natural Products	3:0:0
10	15CH3010	Qualitative and Quantitative Inorganic Analysis Lab	0:0:4
11	15CH3011	Qualitative and Quantitative Organic Analysis Lab	0:0:4
12	15CH3012	Physical Chemistry Lab	0:0:4
13	15CH3013	Modern Instrumental Analysis Lab	0:0:2
14	15CH3014	Preparative Inorganic Chemistry Lab	0:0:2
15	15CH3015	Synthetic Organic Chemistry Lab	0:0:2
16		Value Education	2:0:0
		Total Credits	52
	FSP3999	Full Semester Project	0:0:20
		Total	72

3. Department soft core for M.Sc. Chemistry:

The list of Department soft core papers for M.Sc. Chemistry (2015-2017 batch) is indicated in Table 2. The students should complete a minimum of 12 credits by studying soft core papers.

Table 2 – Soft core papers for M.Sc. Chemistry

Sl. No	Sub Code	Soft Core – Minimum 12 credits to be earned	Credits
1	15CH3016	Instrumental Methods of Analysis	3:0:0
2	15CH3017	Main Group Chemistry	3:0:0
3	15CH3018	Synthetic Reagents and Concerted Reactions	3:0:0
4	15CH3019	Spectroscopic Methods for Structural Elucidation	3:0:0

5	15CH3020	Supramolecular Chemistry and Green Chemistry	3:0:0
6	15CH3021	Applied Electrochemistry	3:0:0
7	15CH3022	Materials Chemistry	3:0:0
8	15CH3023	Biomolecular Chemistry	3:0:0
9	15CH3024	Organotransition Metal Chemistry	3:0:0
10	14CH3001	Polymer Chemistry	3:0:0
11	14CH3002	Nanochemistry	3:0:0
12	14CH3006	Medicinal Chemistry	3:0:0

3. List of electives from the Department of Chemistry :

The list of Department elective papers from the Department of Chemistry is indicated in Table 3 (3 level courses) and Table 4 (2 level courses).

Table 3 - List of Electives (3 level courses) from the Department of Chemistry

Sl. No	Sub. Code	List of Electives	Credits
1	15CH3025	Cheminformatics	3:0:0
2	15CH3026	Environmental Electrochemistry	3:0:0
3	15CH3027	Molecular Machines and Materials	3:0:0
4	15CH3028	Self Organization and Self-assembly in Nanostructures	3:0:0
5	14CH3005	Chemical Approach to Nanomaterials	3:0:0
6	14CH3008	Corrosion Science and Engineering	3:0:0
7	14CH3010	Polymers for Nanotechnology	3:0:0
8	14CH3011	Technical Textiles	3:0:0
9	14CH3012	Metals in Biology	3:0:0

Table 4 - List of Electives (2 level courses) from the Department of Chemistry

1	15CH2001	Polymer Science and Technology in Medicine	3:0:0
2	15CH2002	Bio-Ceramic Materials in Medicine	3:0:0
3	15CH2003	Chemistry in Everyday Life	3:0:0

3. List of subjects formulated by the Department of Chemistry :

The list of subjects (Table 5) formulated by the Department of Chemistry during this BOS meeting is indicated below. The syllabi for all the courses was discussed and approved as per the details indicated below.

Table 5 – List of Courses formulated and approved during the BOS meeting

Sl.No	Sub Code	NAME OF THE SUBJECT	Credits	New/Revised
1	15CH2001	Polymer Science and Technology in Medicine	3:0:0	
2	15CH2002	Bio-Ceramic Materials in Medicine	3:0:0	
3	15CH2003	Chemistry in Everyday Life	3:0:0	
4	15CH3001	Chemical Kinetics and Photochemistry	3:1:0	New
5	15CH3002	Chemical Bonding and Nuclear Chemistry	3:0:0	New
6	15CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0	New

6	15CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0	New
7	15CH3004	Quantum Chemistry and Group Theory	3:1:0	New
8	15CH3005	Coordination Chemistry	3:1:0	New
9	15CH3006	Molecular Spectroscopy	3:0:0	New
10	15CH3007	Chemical Thermodynamics and Electrochemistry	3:0:0	New
11	15CH3008	Organometallic, Bioinorganic and Solid State Chemistry	3:1:0	Revised
12	15CH3009	Synthetic Methodology and Natural Products	3:0:0	Revised
13	15CH3010	Qualitative and Quantitative Inorganic Analysis Lab	0:0:4	Revised
14	15CH3011	Qualitative and Quantitative Organic Analysis Lab	0:0:4	Revised
15	15CH3012	Physical Chemistry Lab	0:0:4	Revised
16	15CH3013	Modern Instrumental Analysis Lab	0:0:2	Revised
17	15CH3014	Preparative Inorganic Chemistry Lab	0:0:2	Revised
18	15CH3015	Synthetic Organic Chemistry Lab	0:0:2	Revised
19	15CH3016	Instrumental Methods of Analysis	3:0:0	Revised
20	15CH3017	Main Group Chemistry	3:0:0	New
21	15CH3018	Synthetic Reagents and Concerted Reactions	3:0:0	New
22	15CH3019	Spectroscopic Methods for Structural Elucidation	3:0:0	New
23	15CH3020	Supramolecular Chemistry and Green Chemistry	3:0:0	New
24	15CH3021	Applied Electrochemistry	3:0:0	New
25	15CH3022	Materials Chemistry	3:0:0	
26	15CH3023	Biomolecular Chemistry	3:0:0	
27	15CH3024	Organotransition Metal Chemistry	3:0:0	
28	15CH3025	Cheminformatics	3:0:0	
29	15CH3026	Environmental Electrochemistry	3:0:0	
30	15CH3027	Molecular Machines and Materials	3:0:0	
31	15CH3028	Self Organization and Self-assembly in Nanostructures	3:0:0	

The meeting concluded with the word of prayer by Dr. A. Samson Nesaraj


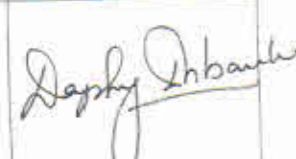






Staff-in-charge





HOD / Chemistry

Karunya University,
Karunya Nagar – 641 114.

Minutes of the meeting of the Board of Studies (BoS) of Department of Chemistry
held on 05-12-2015 at Visitors Lounge, Ground Floor S&H Block

Members Present

S.No	Members	Signature
1.	Dr. K. Parameswari, Chairman HoD i/c , Assistant Professor of Chemistry Karunya University, Coimbatore	 5-12-15
2.	Dr. Daphy Louis Lovenia, Ex-Officio Director i/c School of Science and Humanities, Karunya University, Coimbatore	
3.	Dr. S. Govindarajan, Academic Expert - External Professor of Chemistry, Bharathiar University, Coimbatore	 5-12-15
4.	Dr. C.N. Manoj, Industrial Expert - External CEO, M/s. Pelican Biotech Pvt Ltd., Kuthiathode, Kerala	Absent
5.	Dr. N. Anand, Alumni Assistant Professor School of Civil Engineering, Karunya University, Coimbatore	
6.	Dr. S. Vasanthkumar, Professor of Chemistry, Karunya University, Coimbatore	
7.	Dr. A. Samson Nesaraj, Professor of Chemistry, Karunya University, Coimbatore	A. Samson Nesaraj 05/12/2015
8.	Dr. R. Nandhakumar, Associate Professor of Chemistry, Karunya University, Coimbatore	 05/12/15
9.	Dr. G. Anita Hebsiba, Assistant Professor (AGP 8000) of Chemistry, Karunya University, Coimbatore	 5/12/15
10.	Dr. J. John Rajesh, Assistant Professor (AGP 8000) of Chemistry, Karunya University, Coimbatore	 5/12/15

11.	Dr. T. Selvaraju, Assistant Professor (AGP 8000) of Chemistry, Karunya University, Coimbatore	 5/12/15
12.	Dr. V. Vijaikanth, Assistant Professor (AGP 8000) of Chemistry, Karunya University, Coimbatore	 5/12/15
13.	Dr. K. Juliet Gnanasundari, Assistant Professor (AGP 8000) of Chemistry, Karunya University, Coimbatore	
14.	Dr. B. Jebasingh, Assistant Professor (AGP 8000) of Chemistry, Karunya University, Coimbatore	 5/12/15

Dr. K. Parameswari, Head of the Department welcomed all the members. In his introductory remarks, the following points were discussed.

1. Research Methodology in Chemistry
2. Chemistry courses offered for M.Sc. Nanoscience & Technology students
3. Revamping of Applied Chemistry syllabus
4. New Chemistry programme – M.Sc. Chemistry (3+2 years) – Exit option with B.Sc. Chemistry
5. HoD insisted that the courses should have employability, encouraging them to become entrepreneur and the laboratory courses and other courses should improve their skill development

1. RESEARCH METHODOLOGY PAPER TO BE OFFERED TO M.PHIL. / PH.D. SCHOLARS:

16CH3001 – Research Methodology (3:0:0)

- (i) Chemical journals to be modified as 'journals'
- (ii) Chemical informatics to be modified as 'chemoinformatics'
- (iii) Impact factor, citation index and IPR to be included
- (iv) Year to be included in the reference books
- (v) Other modifications to be made as per the suggestions

Attn: Dr. S. Vasanthkumar & Dr. K. Parameswari,

2. CHEMISTRY COURSES OFFERED FOR M.SC. NANOSCIENCE & TECHNOLOGY STUDENTS

16CH2003 – Atomic structure, Thermodynamics and Electrochemistry (3:0:0)

- (i) Compton effect – to be removed
- (ii) Pauli exclusion principle to be removed
- (iii) Equilibrium constant to be removed
- (iv) Single electrode potential to be modified as 'electrode potential'
- (v) Other modifications to be made as per the suggestions

Attn: Dr. A. Samson Nesaraj & Dr. V. Vijaikanth

16CH2006 – Surface Chemistry and Chemical Kinetics (3:0:0)

- (i) Effects of surface tension – to be removed
- (ii) Enzyme catalysis – to be checked
- (iii) Other modifications to be made as per the suggestions

Attn: Dr. A. Samson Nesaraj & Dr. V. Vijaikanth

16CH2001 – Chemical bonding and Concepts of Acids and Bases (3:0:0)

- (i) Main group theory – to be removed

- (ii) Phosphazenes (SN)_x – to be removed
- (iii) Other modifications to be made as per the suggestions

Attn: Dr. V. Vijaikanth

16CH2004 – Chemistry of Transition and Inner-transition Elements (3:0:0)

- (i) Difference between the first row & other two rows – to be removed
- (ii) Co-ordination geometrics – to be included
- (iii) Catalysis to be changed as catalysts
- (iv) F block elements and other related topics to be changed as 'Inner transition elements – Electronic and Magnetic properties'
- (v) Other modifications to be made as per the suggestions

Attn: Dr. V. Vijaikanth

16CH2002 – Organic Reaction Intermediates and Stereochemistry (3:0:0)

- (i) Heterocyclic compounds – to be removed
- (ii) Kinetics and thermodynamic control – to be removed
- (iii) In reference books, new edition to be included
- (iv) Other modifications to be made as per the suggestions

Attn: Dr. S. Vasanthkumar & Dr. R. Nandhakumar

16CH2005 – Reaction Mechanism and Heterocyclic Chemistry (3:0:0)

- (i) In reference books, new edition to be included
- (ii) Other modifications to be made as per the suggestions

Attn: Dr. S. Vasanthkumar & Dr. R. Nandhakumar

16CH3002 – Molecular and Materials Self Assembly (3:0:0)

- (i) Hierarchical Assembly – to be checked
- (ii) LbL to be included after Layer-by-layer self assembly
- (iii) Other modifications to be made as per the suggestions

Attn: Dr. R. Nandhakumar & Dr. V. Vijaikanth

3. REVAMPING OF APPLIED CHEMISTRY SYLLABUS

16CH1001 – Applied Chemistry (3:0:0)

- (i) Water Treatment - to be changed as 'Hard water'
- (ii) Calculation of Hardness – to be removed
- (iii) Corrosion – to be included
- (iv) Composites – Matrix and dispersed phase – Role of interface – to be removed
- (v) Types of Nanomaterials – to be included

Attn: Dr. T. Selvaraju

4. NEW CHEMISTRY PROGRAMME – M.Sc. CHEMISTRY (3+2 YEARS) – EXIT
OPTION WITH B.SC. CHEMISTRY

The external expert has recommended offering the M.Sc. Chemistry course (3 + 2 years) for the +2 qualified students from Karunya University. However, he suggested having an exit option for the students after 3 years of completion with B.Sc. degree in Chemistry

Attn: Dr. K. Parameswari

List of subjects formulated by the Department of Chemistry :

The list of subjects formulated by the Department of Chemistry during this BOS meeting is indicated below. The syllabi for all the courses was discussed and approved as per the details indicated below.

List of Courses formulated and approved during the BOS meeting

Sl. No	Sub Code	NAME OF THE COURSE	Credits	New/Revised
1	16CH1001	Applied Chemistry	3:0:0	
2	16CH2001	Chemical Bonding and Concepts of Acids and Bases	3:0:0	
3	16CH2002	Organic Reaction Intermediates and Stereochemistry	3:0:0	
4	16CH2003	Atomic Structure, Thermodynamics and Electrochemistry	3:0:0	
5	16CH2004	Chemistry of Transition and Inner-transition Elements	3:0:0	
6	16CH2005	Reaction Mechanism and Heterocyclic Chemistry	3:0:0	
7	16CH2006	Surface Chemistry and Chemical Kinetics	3:0:0	New
8	16CH3001	Research Methodology	3:0:0	New
9	16CH3002	Molecular and Material Self Assembly	3:0:0	

The BoS came to end with the closing prayer by Dr. A. Samson Nesaraj.

Minutes prepared by:

A. Samson Nesaraj
Dr. A. Samson Nesaraj

Minutes approved by:

[Signature]
HOD / Chemistry / F/C

Karunya University,
Karunya Nagar – 641 114.

Minutes of the meeting of the Board of Studies (BoS) of Division of Chemistry, Department of pre-engineering Program held at Visitors Lounge, Ground Floor S&H Block
Date: 31st March 2017 Time: 10.30 AM

Members Present

1. Dr. Daphy Louis Lovenia, Professor and Head, Department of Pre-Engineering Program
2. Dr. S. Govindarajan, Emeritus Professor, Department of Chemistry, Bharathiar University, Coimbatore
3. Dr. K. Parameswari, Assistant Professor of Chemistry Karunya University
4. Dr. S. Vasanthkumar, Professor of Chemistry, Karunya University
5. Dr. A. Samson Nesaraj, Professor of Chemistry, Karunya University
6. Dr. R. Nandhakumar, Associate Professor of Chemistry, Karunya University
7. Dr. J. John Rajesh, Assistant Professor of Chemistry, Karunya University
8. Dr. V. Vijaikanth, Assistant Professor of Chemistry, Karunya University
9. Dr. B. Jebasingh, Assistant Professor of Chemistry, Karunya University

Daphy Lovenia

S. Govindarajan

K. Parameswari

S. Vasanthkumar

A. Samson Nesaraj

R. Nandhakumar

J. John Rajesh

V. Vijaikanth

B. Jebasingh

Dr. K. Parameswari, welcomed all the members. In her introductory remarks she insisted that the courses should have employability, should make the student to become entrepreneur and the laboratory courses and other courses should improve their skill development

Table CH-1
M.Sc. (Chemistry) – 2017 Batch
Course Components

Table 1

Sl. No	Course Code	Program Core – 52 credits & Full semester project	Credits
		Name of the Course	
1	17CH3001	Chemical Kinetics and Photochemistry	3:1:0
2	17CH3002	Chemical Bonding and Nuclear Chemistry	3:0:0
3	17CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0
4	17CH3004	Quantum Chemistry and Group Theory	3:1:0
5	17CH3005	Coordination Chemistry	3:1:0
6	17CH3006	Molecular Spectroscopy	3:0:0
7	17CH3007	Chemical Thermodynamics and Electrochemistry	3:0:0
8	17CH3008	Organometallic, Bioinorganic and Solid State Chemistry	3:1:0
9	17CH3009	Synthetic Methodology and Natural Products	3:0:0
10	17CH3010	Qualitative and Quantitative Inorganic Analysis Lab	0:0:4
11	17CH3011	Qualitative and Quantitative Organic Analysis Lab	0:0:4
12	17CH3012	Physical Chemistry Lab	0:0:4
13	17CH3013	Modern Instrumental Analysis Lab	0:0:2
14	17CH3014	Preparative Inorganic Chemistry Lab	0:0:2
15	17CH3015	Synthetic Organic Chemistry Lab	0:0:2
16	17VE3001	Value Education	2:0:0
		Total Credits	52
	FSP3999	Full Semester Project	0:0:20
		Total	72

Table 2

Sl. No	Sub Code	Soft Core – Minimum 12 credits to be earned	Credits
1	17CH3016	Instrumental Methods of Analysis	3:0:0
2	17CH3017	Main Group Chemistry	3:0:0
3	17CH3018	Synthetic Reagents and Concerted Reactions	3:0:0
4	17CH3019	Spectroscopic Methods for Structural Elucidation	3:0:0
5	17CH3020	Supramolecular Chemistry and Green Chemistry	3:0:0
6	17CH3021	Applied Electrochemistry	3:0:0
7	17CH3022	Molecular and Material Self Assembly	3:0:0
8	17CH3023	Polymer Chemistry	3:0:0
9	17CH3024	Analytical Chemistry	3:0:0
10	17CH3025	Medicinal Chemistry	3:0:0
11	17CH3026	Supramolecular Chemistry	3:0:0

Credit Distribution:

Classification	Credits
Core	72 (52 + 20)
Soft Core	12

Elective	6
Total	90

Table CH-2
LIST OF COURSES

Sl.No	Sub Code	NAME OF THE SUBJECT	Credits	New/Revised
1	17CH1001	Instrumental Techniques in Chemistry	2:0:2	
2	17CH1002	Applied Chemistry	3:0:0	
3	17CH1003	Applied Chemistry Lab	0:0:2	
4	17CH1004	Environmental Studies	3:0:0	
5	17CH2001	Chemical Bonding and Concepts of Acids and Bases	3:0:0	
6	17CH2002	Organic Reaction Intermediates and Stereochemistry	3:0:0	
7	17CH2003	Atomic Structure, Thermodynamics and Electrochemistry	3:0:0	
8	17CH2004	Chemistry of Transition and Inner-transition Elements	3:0:0	
9	17CH2005	Reaction Mechanism and Heterocyclic Chemistry	3:0:0	
10	17CH2006	Surface chemistry and Chemical Kinetics	3:0:0	
11	17CH2007	Qualitative Analysis and Inorganic Preparations Lab	0:0:2	
12	17CH2008	Titrimetric Analysis and Gravimetric Analysis lab	0:0:2	
13	17CH2009	Organic Qualitative Analysis Lab	0:0:2	
14	17CH2010	Physical Chemistry Lab - I	0:0:2	
15	17CH2011	Chemistry In Everyday Life	3:0:0	
16	17CH2012	Applied Nanochemistry and Next Generation Materials	3:0:0	
17	17CH3001	Chemical Kinetics and Photochemistry	3:1:0	Revised
18	17CH3002	Chemical Bonding and Nuclear Chemistry	3:0:0	New
19	17CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0	New
20	17CH3004	Quantum Chemistry and Group Theory	3:1:0	Revised
21	17CH3005	Coordination Chemistry	3:1:0	New
22	17CH3006	Molecular Spectroscopy	3:0:0	Revised
23	17CH3007	Chemical Thermodynamics and Electrochemistry	3:0:0	Revised
24	17CH3008	Organometallic, Bioinorganic and Solid State Chemistry	3:1:0	New
25	17CH3009	Synthetic Methodology and Natural Products	3:0:0	New
26	17CH3010	Qualitative and Quantitative Inorganic Analysis Lab	0:0:4	Revised
27	17CH3011	Qualitative and Quantitative Organic Analysis Lab	0:0:4	Revised
28	17CH3012	Physical Chemistry Lab	0:0:4	Revised
29	17CH3013	Modern Instrumental Analysis Lab	0:0:2	Revised
30	17CH3014	Preparative Inorganic Chemistry Lab	0:0:2	Revised
31	17CH3015	Synthetic Organic Chemistry Lab	0:0:2	New
32	17CH3016	Instrumental Methods of Analysis	3:0:0	New
33	17CH3017	Main Group Chemistry	3:0:0	New
34	17CH3018	Synthetic Reagents and Concerted Reactions	3:0:0	New
35	17CH3019	Spectroscopic Methods for Structural Elucidation	3:0:0	New
36	17CH3020	Supramolecular Chemistry and Green Chemistry	3:0:0	Revised
37	17CH3021	Applied Electrochemistry	3:0:0	New
38	17CH3022	Molecular and Material Self Assembly	3:0:0	New
39	17CH3023	Polymer Chemistry	3:0:0	New
40	17CH3024	Analytical Chemistry	3:0:0	New

41	17CH3025	Medicinal Chemistry	3:0:0	New
42	17CH3026	Supramolecular Chemistry	3:0:0	New






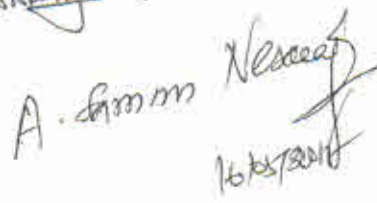



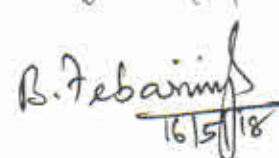
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Minutes prepared by

HOD / PEP



**Minutes of the meeting of the Board of Studies (BoS) of Division of Chemistry
held on 16-05-2018 at Visitor's Lounge, Ground Floor S&H Block**

Members Present

S.No	Members	Signature
1.	Dr. Daphy Inbasekar, HoD, Pre-Engineering Programme, KITS, Coimbatore	 16/5/2018
2.	Dr. Priya Rao, Director- R and D, Pelican Biotech And Chemical Labs Pvt Ltd, Alappuzha, Cochin Area, Kerala	
3.	Ms. Deepa. R, Associate Scientist, CavinKare, No12, poonamallee Road, Ekkattuthangal, Chennai-600 032	 16/5/18
4.	Dr. S. Vasanthkumar, Professor of Chemistry, KITS, Coimbatore	 16/5/18
5.	DR. Joseph Kennady, Professor of Chemistry, KITS, Coimbatore	
6.	Dr. A. Samson Nesaraj, Professor of Chemistry, KITS, Coimbatore	 A. Samson Nesaraj 16/5/2018
7.	Dr. R. Nandhakumar, Associate Professor of Chemistry, KITS, Coimbatore	 16/5/18
8.	Dr. K. Parameswari, Associate Professor of Chemistry KITS., Coimbatore	 16/5/18
9.	Dr. V. Vijaikanth, Associate Professor of Chemistry KITS, Coimbatore	 V. Vijaikanth 16/5
10.	Dr. B. Jebasingh, Associate Professor of Chemistry KITS, Coimbatore	 B. Jebasingh 16/5/18

The meeting began with the opening prayer by Dr. Samson Nesaraj

Dr. Daphy Louis Lovenia, Professor & Head, welcomed the external experts and all the faculty members. Dr. Vijaikanth, in his introductory remarks, briefed about the curriculum proposed by AICTE from the academic year 2018 – 2019. Then, the following suggestions were recommended. In her introductory remarks she insisted that the courses should have employability, should make the student to become entrepreneur and the laboratory courses and other courses should improve their skill development

1. Course curriculum for M.Sc. Chemistry – Course structure:

After discussion, the M.Sc. Chemistry course structure is formulated as per the details mentioned below:

The Department core for M.Sc. Chemistry (2018-2019 batch) is finalized as per the details mentioned in Table 1. The students should acquire 52 credits and complete a part semester project in their course of study.

Table 1 – Department core for M.Sc. Chemistry Programme

Sl. No	Sub Code	Program Core – 52 credits & Full semester project	Credits
1	17CH3001	Chemical Kinetics and Photochemistry	3:1:0
2	17CH3002	Chemical Bonding and Nuclear Chemistry	3:0:0
3	17CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0
4	17CH3004	Quantum Chemistry and Group Theory	3:1:0
5	17CH3005	Coordination Chemistry	3:1:0
6	17CH3006	Molecular Spectroscopy	3:0:0
7	17CH3007	Chemical Thermodynamics and Electrochemistry	3:0:0
8	17CH3008	Organometallic, Bioinorganic and Solid State Chemistry	3:1:0
9	17CH3009	Synthetic Methodology and Natural Products	3:0:0
10	17CH3010	Qualitative and Quantitative Inorganic Analysis Lab	0:0:4
11	17CH3011	Qualitative and Quantitative Organic Analysis Lab	0:0:4
12	17CH3012	Physical Chemistry Lab	0:0:4
13	17CH3013	Modern Instrumental Analysis Lab	0:0:2
14	17CH3014	Preparative Inorganic Chemistry Lab	0:0:2
15	17CH3015	Synthetic Organic Chemistry Lab	0:0:2
16	17VE3001	Value Education	2:0:0
		Total Credits	52
	PSP3998	Part Semester Project	0:0:12
		Total	64

Professional Electives for M.Sc. Chemistry:

The list of professional elective courses papers for M.Sc. Chemistry (2018-2019 batch) is indicated in Table 2. The students should complete a minimum of 12 credits by studying the professional elective courses.

Table 2 – Professional Electives for M.Sc. Chemistry

Sl. No	Sub Code	Professional Electives – Minimum 12 credits to be earned	Credits
1	17CH3016	Instrumental Methods of Analysis	3:0:0

2	17CH3017	Main Group Chemistry	3:0:0
3	17CH3018	Synthetic Reagents and Concerted Reactions	3:0:0
4	17CH3019	Spectroscopic Methods for Structural Elucidation	3:0:0
5	17CH3023	Polymer Chemistry	3:0:0
6	17CH3024	Analytical Chemistry	3:0:0

Other Elective courses for M.Sc. Chemistry:

The members felt that the M.Sc chemistry students should be exposed to research methodology and IPR. The list of other elective courses for M.Sc. Chemistry (2018-19 batch) is indicated in Table 3.

Table 3 – Other Electives for M.Sc. Chemistry

Sl. No	Sub Code	Other Electives	Credits
1	17CH3020	Supramolecular Chemistry and Green Chemistry	3:0:0
2	17CH3021	Applied Electrochemistry	3:0:0
3	17CH3022	Molecular and Material Self Assembly	3:0:0
4	17CH3025	Medicinal Chemistry	3:0:0
5	17CH3026	Supramolecular Chemistry	3:0:0
6	18CH3001	Research Methodology and IPR	3:0:0
7	18CH3002	Tribology of Polymer Composites	3:0:0
8	18CH3003	Laboratory Chemistry for the daily life	0:0:2

Credit distribution:

	Credits	
Core	52	
Professional Electives	12	
Other Electives	14	
Part Semester Project	12	To be offered in 4 th Semester only
Total	90	

The courses may be offered in each semester as given in table 4.

Table 4 – Curriculum for M.Sc. Chemistry 2018-19batch

Sl. No	Sub Code	Name of the Subject	Credits
SEMESTER ONE			
1	17CH3001	Chemical Kinetics and Photochemistry	3:1:0
2	17CH3002	Chemical Bonding and Nuclear Chemistry	3:0:0
3	17CH3003	Organic Reaction Mechanism and Stereochemistry	3:1:0
4	17CH3010	Qualitative and Quantitative Inorganic Analysis Lab	0:0:4
5	17CH3013	Modern Instrumental Analysis Lab	0:0:2
6		Professional Elective 1	3:0:0
7		Professional Elective 2	3:0:0
		Credits	23
SEMESTER TWO			
8	17CH3004	Quantum Chemistry and Group Theory	3:1:0
9	17CH3005	Coordination Chemistry	3:1:0

10	17CH3006	Molecular Spectroscopy	3:0:0
11	17CH3011	Qualitative and Quantitative Organic Analysis Lab	0:0:4
12	17CH3014	Preparative Inorganic Chemistry Lab	0:0:2
13		Professional Elective3	3:0:0
14		Value education	2:0:0
		Credits	22
SEMESTER THREE			
15	17CH3007	Chemical Thermodynamics and Electrochemistry	3:0:0
16	17CH3008	Organometallic, Bioinorganic and Solid State Chemistry	3:1:0
17	17CH3009	Synthetic Methodology and Natural Products	3:0:0
18	17CH3012	Physical Chemistry Lab	0:0:4
19	17CH3015	Synthetic Organic Chemistry Lab	0:0:2
20		Professional Elective4	3:0:0
21		Elective 1	
22		Elective 2	
		Credits	
SEMESTER FOUR			
23		Elective 3	
24		Elective 4	
25		Elective 5	
26	PSP3998	Part Semester Project	0:0:12
		Credits	
		Total Credits	90

2. List of Courses formulated by the Department of Chemistry :

The list of subjects (Table 5) formulated by the Department of Chemistry during this BOS meeting is indicated below. The syllabi for all the courses was discussed and approved as per the details indicated below.

Table 5 – List of Courses formulated and approved during the BoS meeting

Sl.No	Sub Code	NAME OF THE SUBJECT	Credits	New/Revised
1	18CH1001	Chemistry-I	3:1:0	
2	18CH1002	Applied Chemistry Laboratory	0:0:2	
3	18CH1003	Engineering Chemistry	3:1:0	
4	18CH1004	Chemistry for Computer Science Engineers	3:1:0	
5	18CH1005	Chemistry for Civil Engineers	3:1:0	
6	18CH1006	Applied Chemistry	3:1:0	
7	18CH2001	Environmental Studies	3:0:0	
8	18CH2002	Chemical Applications	3:0:0	
9	18CH2003	Polymer Chemistry	3:0:0	
10	18CH2004	Experiments in Polymer Chemistry	0:0:2	
11	18CH3001	Research Methodology and IPR	3:0:0	New
12	18CH3002	Tribology of polymer composite	3:0:0	New
13	18CH3003	Laboratory Chemistry for the daily life	0:0:2	New
14	18CH3004	Polymer Chemistry	3:0:0	Revised

The meeting concluded with a word of prayer by Dr. Parameswari.











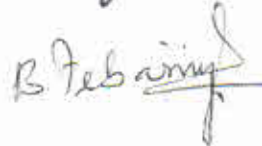
Minutes prepared by

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HOD / PEP

2019-BoS Minutes

Minutes of the meeting of the Board of Studies (BoS) of Department of Chemistry held at Visitors Lounge, Ground Floor S&H Block on 25th June 2019 Time: 11.00 AM

Members Present

1. Dr. S. Vasanthkumar, Professor and Head, Department of Chemistry, Karunya University 
2. Dr. C.N. Manoj, CEO, M/s Pelicon Biotech Pvt Ltd Chennai -126 
For Pelicon Biotech & Chemical Labs, Pvt.Ltd.
Managing Director
3. Dr. Bharat kumar, Postdoctoral Researcher School of Chemistry, Bharathidasan University, Trichy 
4. Dr. C. Joseph Kennady, Professor Department of Chemistry, Karunya University 
5. Dr. A. Samson Nesaraj, Professor, Department of Chemistry, Karunya University 
6. Dr. R. Nandhakumar, Associate Professor, Department of Chemistry, Karunya University 
7. Dr. K.Parameswari, Associate Professor, Department of Chemistry, Karunya University 
8. Dr. V. Vijaikanth, Associate Professor, Department of Chemistry, Karunya University 
9. Dr. B-JEBASINGH, Associate Professor, Department of Chemistry, Karunya University. 

The meeting began with the opening prayer by Dr. A. Samson Nesaraj. HoD insisted that the courses should have employability, should make the student to become entrepreneur and the laboratory courses and other courses should improve their skill development

1. M.Sc Chemistry

It has been decided that M.Sc Chemistry needs no revision as it was revised in 2018.

In future the following suggestions may be considered during the revision of courses for M.Sc Chemistry program.

- New elective paper related to chemistry in everyday life
- Credit distribution for the 2nd and 3rd semester of M.Sc Chemistry program

2. Chemistry courses for the 2019-20 batch B.Tech Students

It has been decided that the chemistry courses few engineering programs may be revised

The revision of laboratory experiments related to B.Tech I year will be done in the next meeting.

3. List of New Chemistry Courses for the Department of nanosciences and Technology

The revamping of the chemistry courses for the M.Sc Nanoscience programme will be sent to BoS of nanosciences department.

4. List of New Courses formulated by the Department of Chemistry :

LIST OF NEW COURSES

Sl. No	Sub Code	NAME OF THE SUBJECT	Credits				New/Revised
1	19CH1001	Engineering Chemistry For Electrical Engineers	3	0	0	3	
2	19CH1002	Chemistry For Computer Science and Engineering	2	0	0	2	
3	19CH1003	Engineering Chemistry for Mechanical Engineering	3	0	0	3	
4	19CH1004	Engineering Chemistry for Aerospace Engineering	3	0	0	3	
5	19CH1005	Chemistry for Electronics and Communication Engineering	2	0	0	2	
6	19CH1006	Applied Chemistry for Civil Engineering	3	0	0	3	
7	19CH1007	Applied Chemistry Laboratory	0	0	2	1	
8	19CH1008	Applied Chemistry for Instrumentation Engineering	3	0	0	3	
9	19CH3001	Composite Materials	3	0	0	3	Revised
10	19CH3002	Waste to Energy	3	0	0	3	New
11	19CH3003	Internet of Chemical Things	3	0	0	3	New
12	19CH3004	Energy Conservation Technology	3	0	0	3	New
13	19CH3005	Waste Treatment Technology	3	0	0	3	New
14	19CH3006	Pharmaceutical Technology	3	0	0	3	Revised
15	19CH3007	Battery Technology	3	0	0	3	New
16	19CH3008	Corrosion Engineering	3	0	0	3	New

Prepared by:

(Dr. V. Vijaikanth)

Approved by:

(HOD/Chemistry)