

DEPARTMENT OF APPLIED CHEMISTRY
FEEDBACK FROM STAKE HOLDERS AND ACTION TAKEN
(2015-2016)

The department has the formal and informal mechanisms to obtain the feedback from stakeholders through various sources.

1a) Student's feedback

- Topics related to research can be introduced.

1b) Parents feedback

- More courses can be added related to improving Employability / Entrepreneurship skills

1d) Teacher's feedback

- Courses handled should caters to the Regional/ National / Global needs
- Course contents are relevant to the societal need and include recent topics
- Courses involving problem solving / analytical / creative and innovative skills required for the students may be improved

Feedback from Teachers

TEACHER FEEDBACK ON CURRICULAR DESIGN AND DEVELOPMENT

Name of the Faculty		Department	Academic year
Dr. A. Samson Nesaraj		Chemistry	2015 - 2016
Programme	Courses Handled		Course code
UG/ PG / M.Phil.	1. Chemical Kinetics and Photochemistry		15CH3001
	2. Quantum Chemistry and Group Theory		15CH3004

Note : The scales mentioned in the questionnaire are as follows:

1. Commendable 2. Highly Satisfactory 3. Satisfactory 4. To be improved 5. Poor

S. No	Questions	1	2	3	4	5
1	Courses handled by me caters to the Regional/ National / Global needs	✓				
2	Courses integrate / augment Professional and Employable skills		✓			
3	Course contents are relevant to the societal need and include recent topics	✓				
4	Courses involve problem solving / analytical / creative and innovative skills required for the students		✓			
5	Courses involve sufficient lab work / case studies/ field trips etc.	✓				
6	Courses motivate the students to use the resources such as library and e-gadgets for their learning	✓				
7	Curriculum contains wide range of courses under CBCS including Core, Core Electives, Value Additions, Projects, etc.	✓				
8	The credit and grading system followed are indicative of the weightage of the courses offered	✓				
9	The Curriculum design, Teaching-Learning-Evaluation and examination transactions are effectively carried on time	✓				
10	The evaluation schemes fulfils the learning system as student-centric	✓				
11	The opportunity given to me to design the courses as per the common objective of the department for the benefit of students	✓				

A. Samson Nesaraj

Signature with date

ACTION TAKEN REPORT 2015-16

The stakeholders have appraised the updated course contents, knowledge of the students, willingness towards continuous learning, communication skills, satisfactory level of response from the Institution, etc. The action taken report on the following feedback is mentioned here.

S. No.	Action Points	Actions Taken
1	Course based on the research methodology can be introduced	The course 16CH3001 “ research Methodology” has been introduced.

FEEDBACK ANALYSIS 2015-16

The feedback from the parents, employers, alumnus, students and faculty members are analyzed using various criterions and evaluated below.

1. Feedback from students:

Feedback from the students are collected for the improvement of the curriculum based on the following criterions.

#	Criteria	1	2	3	4	5
A) Academic Course						
1	Choice Based Credit System and Course Design					
2	Choice of course content to meet placement requirement					
3	Knowledge and intellectual enhancement through course content					
4	Teaching hours per week and credits allotted for each course					
5	Syllabus and suggestion of resources for further reading					
6	Freedom in selecting elective and inter-departmental courses					

1. Very Good 2. Good 3. Average 4. Poor 5. Very Poor

2. Feedback from Alumni:

Feedback from the Alumni are collected during alumni meetings for the improvement of the curriculum based on the following criterions.

#	Criteria	Very Good	Good	Average	Poor	Very Poor
A) Course Content of Program Attended						
1	The level of knowledge enrichment achieved through the course content					
2	Allotment of credits for each course and teaching hours per week					
3	The syllabus, design, resource and outcome of each course					
4	Choice provided to select elective courses and inter departmental courses					

5	The course content enabled acquiring of skills relevant to placement opportunities				
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3. Feedback from parents

Feedback from the parents are collected during the parents-teacher meeting meeting where the feedback about the curriculum is also collected for analysis and improvement based on the following criterion

Karunya Institution of Technology and Sciences has brought in several changes in the Design of Curriculum. Tick your options	
S. No.	Particulars
1	Raising the standard of education through Curriculum
2	Competency of the Teachers in imparting the Course content and Skills effectively
3	Importance given to practical aspects in curriculum
4	Courses in the curriculum are socially relevant
5	Education provided creates confidence to face competitive exams
6	Courses in the curriculum are suitable for Employability / Entrepreneurship

4. Feedback from Teachers

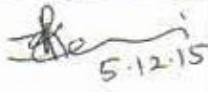
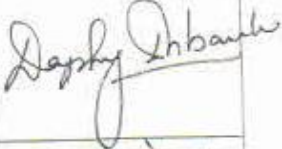
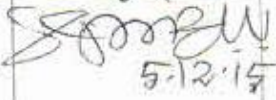


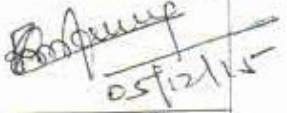


Feedback from the teachers are collected every year for analysis and improvement based on the following criterion


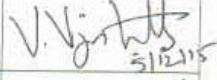


S. No	Questions
1	Courses handled by me caters to the Regional/ National / Global needs
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5	Courses involve sufficient lab work / case studies/ field trips etc.
6	Courses motivate the students to use the resources such as library and e-gadgets for their learning
7	Curriculum contains wide range of courses under CBCS including Core, Core Electives, Value Additions, Projects, etc.
8	The credit and grading system followed are indicative of the weightage of the courses offered
9	The Curriculum design, Teaching-Learning-Evaluation and examination transactions are effectively carried on time
10	The opportunity given to me to design the courses as per the common objective of the department for the benefit of students

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	 05/12/15

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	
8	16CH3001	Research Methodology	3:0:0	New
9	16CH3002	Molecular and Material Self Assembly	3:0:0	New

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:

K. Parameswari
HOD / Chemistry / F/C