

**DEPARTMENT OF APPLIED CHEMISTRY**  
**FEEDBACK FROM STAKE HOLDERS AND ACTION TAKEN**  
**(2017-2018)**

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

**1a) Student's feedback**

- Laboratory skills related to daily life can be introduced
- Courses related to research methodology can be introduced

**1b) Alumni Feedback**

- Courses related to career opportunities can be introduced

**1c) Parents feedback**

- The standard of education through Curriculum can be improved
- 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

## 1a) Feedback from Alumni

Internal Quality Assurance Cell (IQAC)  
Karunya Institute of Technology and Sciences  
Coimbatore – 641 114

### IQAC – Alumni Feedback

#	Criteria	Very Good	Good	Average	Poor	Very Poor
<b>A) Course Content of Program Attended</b>						
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		✓			
<b>B) Industry Relevance of Course Content</b>						
6	Courses give more importance to ethical practices so as to mould the personality traits of learners		✓			
7	Courses taught link the knowledge they gain with the real world situations		✓			
8	Courses impart more practical knowledge than theory		✓			
9	Course design narrows the gap between Industry and academia		✓			
<b>C) Teaching and Evaluation</b>						
10	Teaching method followed by teachers		✓			
11	Syllabus portions for each course given for self-study and learning in forms of assignments, seminars, etc.		✓			
12	Preparation, communication, and helpful attitude of teachers in assisting the learners	✓				
13	Weightage given to different components of continuous internal assessment and the way in which they are implemented	✓				
14	Fairness of evaluation method followed for continuous internal assessment and semester exam		✓			
15	Availability of faculty for interaction and guidance	✓				
16	Mechanisms available to redress academic grievances		✓			
17	Helpful attitude of administrators, staff and non-teaching staff to provide suitable campus culture and atmosphere	✓				
<b>D) Facilities</b>						
18	Library facilities	✓				
19	Lab / ICT facilities	✓				
20	Day Scholar facilities / Hostel facilities	✓				

21	The recreational and student counselling facilities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>E) Outreach Activities</b>						
22	Methodology followed in extension activities	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
23	Extracurricular activities available and student participation in them	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
24	The scope offered for enhancing knowledge and skills through various clubs	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<b>F) Overall</b>						
25	Overall rating of the program and its implementation	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

*Anusha Antony*  
Anusha

Signature

### FEEDBACK ABOUT THE INSTITUTION

1. Do you feel proud to be associated with your institution as an alumnus?

Yes I do feel proud.

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2. How do you rate developmental activities organized by the Department / Institution for your overall development?

\_\_\_\_\_ very helpful

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3. Are you willing to contribute to the development of the Institution / Department? How?

\_\_\_\_\_ Yes, by providing physical or social means of support for the Institution reputation and also by helping the department to improve in particular industry by applying the theories they have been taught and helping to access opportunities to the student's careers.

4. Your vision for the Department

\_\_\_\_\_ It could be a programme with strong ties to industry for giving internship and career opportunities for students and alumni working in other fields too.

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5. Any other suggestions/comments:

\_\_\_\_\_ No \_\_\_\_\_

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**Internal Quality Assurance Cell (IQAC)**  
**Karunya Institute of Technology and Sciences**  
**Coimbatore – 641 114**

**IQAC – Alumni Feedback**

#	Criteria	Very Good	Good	Average	Poor	Very Poor
<b>A) Course Content of Program Attended</b>						
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	✓				
<b>B) Industry Relevance of Course Content</b>						
6	Courses give more importance to ethical practices so as to mould the personality traits of learners		✓			
7	Courses taught link the knowledge they gain with the real world situations		✓			
8	Courses impart more practical knowledge than theory		✓			
9	Course design narrows the gap between Industry and academia	✓				
<b>C) Teaching and Evaluation</b>						
10	Teaching method followed by teachers	✓				
11	Syllabus portions for each course given for self-study and learning in forms of assignments, seminars, etc.		✓			
12	Preparation, communication, and helpful attitude of teachers in assisting the learners	✓				
13	Weightage given to different components of continuous internal assessment and the way in which they are implemented			✓		
14	Fairness of evaluation method followed for continuous internal assessment and semester exam	✓				
15	Availability of faculty for interaction and guidance	✓				
16	Mechanisms available to redress academic grievances			✓		
17	Helpful attitude of administrators, staff and non-teaching staff to provide suitable campus culture and atmosphere		✓			
<b>D) Facilities</b>						

18	Library facilities		✓			
19	Lab / ICT facilities		✓			
20	Day Scholar facilities / Hostel facilities	✓				
21	The recreational and student counselling facilities		✓			
<b>E) Outreach Activities</b>						
22	Methodology followed in extension activities		✓			
23	Extracurricular activities available and student participation in them			✓		
24	The scope offered for enhancing knowledge and skills through various clubs		✓			
<b>F) Overall</b>						
25	Overall rating of the program and its implementation		✓			

**X**

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Priyanka Avala  
alumna student

Signature

**FEEDBACK ABOUT THE INSTITUTION**

1. Do you feel proud to be associated with your institution as an alumnus?

Yes, I do \_\_\_\_\_

2. How do you rate developmental activities organized by the Department / Institution for your overall development?

Good \_\_\_\_\_  
\_\_\_\_\_

3. Are you willing to contribute to the development of the Institution / Department? How?

May be in the future \_\_\_\_\_  
\_\_\_\_\_

4. Your vision for the Department

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

5. Any other suggestions/comments:

No \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## 1b) Feedback from Teachers

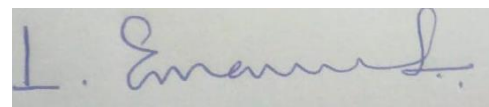
### TEACHER FEEDBACK ON CURRICULAR DESIGN AND DEVELOPMENT

Name of the Faculty		Department	Academic year
Dr. L. Emmanuel		Chemistry	2017-18
Programme	Course Handled		Course code
PG	Synthetic methodology and natural products		15CH3009

*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		yes			
2	Courses integrate / augment Professional and Employable skills			yes		
3	Course contents are relevant to the societal need and include recent topics		yes			
4	Courses involve problem solving / analytical / creative and innovative skills required for the students			yes		
5	Courses involve sufficient lab work / case studies/ field trips etc.				yes	
6	Courses motivate the students to use the resources such as library and e-gadgets for their learning		yes			
7	Curriculum contains wide range of courses under CBCS including Core, Core Electives, Value Additions, Projects, etc.		yes			
8	The credit and grading system followed are indicative of the weightage of the courses offered		yes			
9	The Curriculum design, Teaching-Learning-Evaluation and examination transactions are effectively carried on time		yes			
10	The evaluation schemes fulfils the learning system as student-centric			yes		
11	The opportunity given to me to design the courses as per the common objective of the department for the benefit of students		yes			



Signature with date

## **ACTION TAKEN**

- Research methodology and IPR course has been introduced.
- Course on Laboratory Chemistry for the daily life has been introduced to improve skill development
- Course on Polymer chemistry has been introduced to improve the employability skills
- Suggestions for further reading can be improved.

### **ACTION TAKEN REPORT 2017-18**

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.

<b>S. No.</b>	<b>Action Points</b>	<b>Actions Taken</b>
1	Courses related to research methodology can be introduced	Research methodology and IPR course has been introduced.
2	Courses related to career opportunities can be introduced	Polymer chemistry course has been included
3	More courses can be added related to improving Employability / Entrepreneurship skills	Laboratory skills related to daily life can be introduced

### **FEEDBACK ANALYSIS 2017-18**

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
<b>A) Academic Course</b>						
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
<b>A) Course Content of Program Attended</b>						
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					

## 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



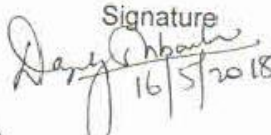




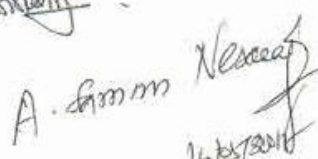

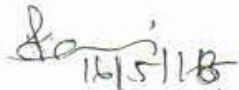

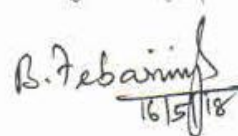
Feedback from the teachers are collected every year for analysis and improvement based on the following criterion

<b>S. No</b>	<b>Questions</b>
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 opportunity given to me to design the courses as per the common objective of the department for the benefit of students



**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
<b>Total Credits</b>			<b>52</b>
	PSP3998	Part Semester Project	0:0:12
<b>Total</b>			<b>64</b>

### **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 <sup>th</sup> 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
<b>SEMESTER ONE</b>			
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
<b>SEMESTER TWO</b>			
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
<b>SEMESTER THREE</b>			
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	
<b>SEMESTER FOUR</b>			
23		Elective 3	
24		Elective 4	
25		Elective 5	
26	PSP3998	Part Semester Project	0:0:12
		Credits	
		Total Credits	90

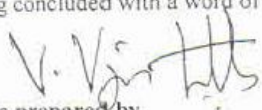
## 2. List of Courses formulated by the Department of Chemistry :


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

  
HOD / PEP