

## Analysis of Feedback from Stakeholders and Action Taken (2018-2019)

1) The department has formal and informal mechanisms to obtain feedback from stakeholders through various committees, associations, organization, etc.

### 1.a. Students Feedback

- Students felt that that courses are fascinating and helps to bring out their creative talents and life skills.
- They expressed that the subjects help them to gain insight in the relevant field.
- They requested to add subjects related to industrial applications and conduct subject related seminars.

### 1.b. Employers Feedback:

- They expressed that the overall performance of the students is good.
- More practical knowledge is required.

### 1.c. Parents Feedback:

- Parents expressed their satisfaction with the academic standards
- They requested to include in plant training in the syllabus.

### 1.d. Alumni Feedback:

- The students requested to provide more practical knowledge compared to the theories.

## 2) Analysis:

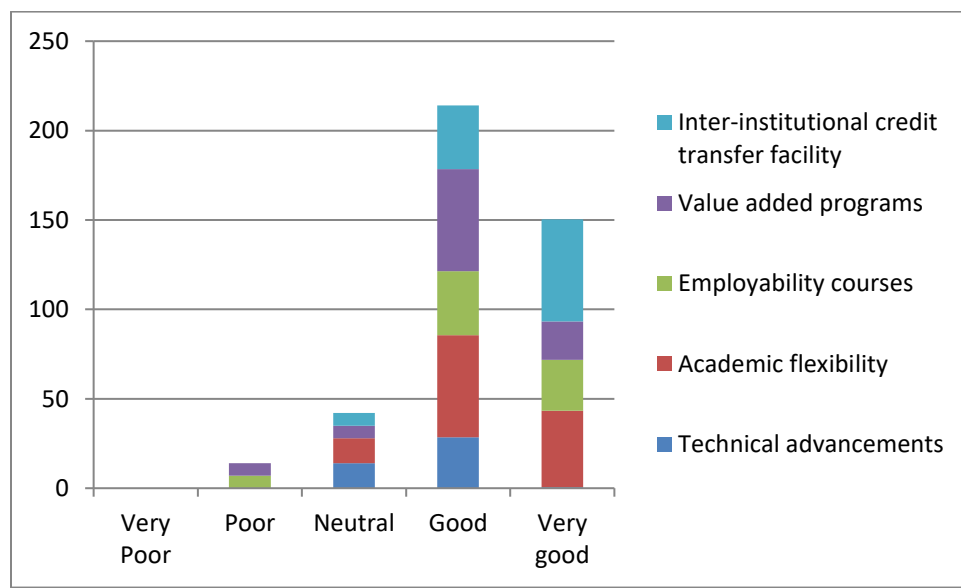


Fig. 1. Analysis of Parent feedback - 2018-19

3) Sample feedback:

**Sample Feedback: Students**



**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

**Feedback from Students on the Curriculum  
and Syllabi of the B.Tech/M.Tech. Programme**

Feedback from **Ms. R. Jane Preetha Princy**

Programme : **M.Tech. (Biomedical Instrumentation)**

Department : **Biomedical Engineering**

School : **Karunya Institute of Technology and Sciences**

Feedback on Curriculum (Number of Theory Subjects, Laboratory subjects, Core Subjects and Electives. Subjects having industrial applications for improving employability)

1. The subjects listed help us gain insight in the biomedical field.
2. The laboratory experiments help us in doing our projects.
3. The elective subjects add us more skills and values.

Suggestions to improve the Curriculum

1. NA
- 2.

Feedback on Syllabi of subjects studied and suggestions for improvement (any three subjects)

SL.No.	Name of the Subject	Feed back	Suggestions for improvement
1	Medical Sensors and MEMS Technology	Was very fascinating to study about the novel technologies.	
2	Medical Image Processing	It was very interesting to know about the techniques that were used to process the medical images.	
3	Value Education	Helped us show our creative talents and acquire life skills	

Date: **15.05.2018**

Signature

Name of the Student: **R. Jane Preetha Princy**

**Sample Feedback: Employers**

**Karunya Institute of Technology & Sciences**  
 (Deemed to be University)  
**CENTRE FOR PLACEMENT & TRAINING**  
 Karunya Nagar, Coimbatore 641 114

**FEEDBACK FROM CORPORATES**  
**PERFORMANCE OF STUDENTS FROM KARUNYA UNIVERSITY**

- Name of the Company: M/s Zadpro Media
- Nature of the Company – IT / ITES / Manufacturing / Service / Construction
- Please rate the Overall Performance of our students as per the following parameters:-

**Technical Skills**


	Factors	Excellent	Good	Average	Below Average
<b>A</b>	General Aptitude				
	Technical Aptitude				
	Application Oriented Skills				
	Basic Technical Knowledge			✓	

**Soft-Skills**

<b>B</b>	Leadership Qualities				
	Professional Knowledge			✓	
	Result Orientation				
	Creativity			✓	
	Attitude		✓		
	Communication Skills		✓		
	Interpersonal Relationship		✓		
	Team Building				
	Self Development				

- Kindly Indicate if you have any other additional feed-back to offer :-

There is a gap in academic theory & Practical in-line with Design Industry. This need to be fine tuned for better results.

Signature:   
 Name: Nirmal T.S  
 Designation: Manager - TA  
 Mobile Number: 9790986918  
 Date: 1- Oct -18

**Sample Feedback: Parents**



School of Electrical Sciences

Feedback from Parents

Name: Mr/Mrs/Ms. E. SOLVAKAT Sex(M/F): M

Education: ENGINEERING DIPLOMA Occupation: RETIRED

Address: 47, Sobha Turquoise, Harishree Gardens  
Sundepalayam CBG - 7

Student Name: Palani. S Reg. No: UR12E10A0 Department: EIE

You are requested to answer and rate the following questions which would help us in improving the quality and services offered. The rating can be between 1 to 5.

Score 1: Very poor; Score 2: Poor; Score 3: Neutral; Score 4: Good; Score 5: Very Good

S.No	Questions	Rating
<b>Curriculum</b>		
1	The Curriculum of the course is well designed and promotes learning experience to the students.	4
2	The Curriculum incorporates technical advancements in the relevant field of study.	4
3	Does the Choice Based Credit System (CBCS) adapted in the Curriculum improve the academic flexibility?	4
4	Employability is given focus in the curriculum design.	4
5	Value Add programmes like Communication Skills/Soft Skills development are added in the Curriculum.	4
6	The Institution provides for inter-institutional credit transfers.	4
<b>Teaching-Learning</b>		
7	Does the department have adequate number of faculty to handle the course?	4
8	Does the department have faculty experts in relevant field of study?	4
9	Does the faculty cover the syllabus effectively for the course?	4
10	Whether adequate technical guidance given to your ward for completion of Quality Assessment/Project Work	4
11	Does the department have adequate laboratory facility for the students?	4
<b>Students</b>		
12	Does the department encourage the students to participate in Inter-	

	Collegiate/Inter-Institutional Technical Fest?	4
13	Do you receive relevant information like Attendance Percentage; Internal Test marks/Progress Report etc from the department?	4
<b>Mentoring</b>		
14	Does the mentor of your ward offer a good mentoring?	4
15	Does the mentor communicate to you often about the academic status of your ward?	4
16	Does the mentor offer personal counseling to your ward when needed?	4

Suggestions for further improvement:

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More Industrial Visits can be planned by the department

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### Action Taken

S. No.	Suggestion given	Action Taken
<b>Student Feedback</b>		
	Subject related seminars are needed	Guest Lectures and Seminars by Industry experts are organized. (A1)
	Industry related courses should be introduced	Elective courses on emerging technology like IoT, Block Chain, Data Analytics, AR/VR were introduced. (A2)
<b>Parent Feedback</b>		
	Industrial Trainings have to be included	Inplant Training and Internships were made mandatory. (A3)

<b>Alumni Feedback</b>		
	More practical knowledge is required	Additional labs on Embedded C Programming, Embedded Linux were incorporated in the curriculum. More number of laboratory courses were introduced in the curriculum to provide more practical knowledge. (A4)
<b>Employer Feedback</b>		
	Practical Exposure must be given	Hospital training was included to give more knowledge on the biomedical applications in the hospital sector. (A5)

#### 5) Evidence:

##### A1: Guest Lectures Organized

<b>Title of Seminar</b>	<b>Resource Person</b>
Entrepreneurship & Technology StartUps	Er.Shantha Kumar,
Trends19 - Technical Symposium	Mr Ashokan , Salzer Electronics and Dr.Lakshmi Priya, Avinashlingam University
Paper Presentation - Trends'19	D.Pamela Hepsiba.D Lina Rose
Poster/Oral Presentation	D.Pamela, Hepsiba.D Lina Rose
Project Presentation	D.Pamela, Hepsiba.D Lina Rose
Pathology in Virology	Ruey-Yi Chang, Professor, National Dong Hwa University.
Industrial Training on the Basics of LabVIEW NXG	K Rajesakeran, Innovative Invaders Technologies, Coimbatore
Women Redressal Cell Event: Seminar on Coporate Super Women	Dr. S. Sheeba Rani, Associate Professor, Dept of EEE, Sri Krishna College of Engineering and Technology, Coimbatore
Seminar on Automotive Embedded System	Mr.Selvakumar, Robert Bosch
Faculty seminar on Advancement in LabVIEW	Dr. L.D. Vijay Anand, Assistant Professor, Instrumentation Engineering Department
PCB design and testing for Biomedical Applications	Mrs.J Smily Jeya Jothi, Consultant and Trainer, Abudhabi

Deploying to Apache and Tomcat Webserver with Eclipse	Mr.Joefred Varghese Gregory, Mr.Jestin Roy, Hyundai Mobis, Coimbatore
Industrial Automation and Robotics	Mr. Rajasekar, AGIIT
Women Redressal Cell Event: Seminar on Women Power	Rtr. Dhanya Shree, Rotaract Club of Spectrum Coimbatore.  Rtr. Vidya DC - Growth and Expansion, Coimbatore.
Tread mill Analysis	Mr Jai Prabu, RVS Dental college, Coimbatore
Real Time Acquisition and Processing of Biosignals using LabVIEW	Dr P Rajalakshmy, Mr.J Samson Isaac, Dr R.Jegan, Mrs.Hepsiba D Mr P Vijay Daniel
Hands-on Training on Biosignal Processing using LabVIEW	Dr.K. Rajasekaran, KITS
One day Hands-on training on critical care equipment in association with- Biovision chennai	Dr. P.Subha Hency Jose, Mrs. Lina Rose Mr. J Samson Isaac
One day Workshop on System Modeling and Control	Dr. K. Rajasekaran, Dr. Subha hency Jose Dr. P. Rajalakshmy, Mr. VijayAnand
Diagnostic and Therapeutic equipment	Dr Charles Richard, Seesha Hospital, Coimbatore

## A2: Industry Related Courses

S. No	Course Code	Course Title	Hours per Week			Credits
			L	T	P	
1	19BM2031	Medical Internet of Things	3	0	0	3
2	19BM2032	Cloud Computing Applications in Biomedical Engineering	3	0	0	3
3	19BM2033	Python Programming for Biomedical Applications	3	0	0	3
4	19BM2034	Data Analytics for Biomedical Engineering	3	0	0	3
5	19BM2035	Block Chain Technology	3	0	0	3
6	19BM2036	Augmented/Virtual Reality Applications in Biomedical Engineering	3	0	0	3

## A3: Practical Courses

## A5: Hospital Training

2.	19BM1002	Introduction to Biomedical Engineering	3:0:0	3
3.	19BM2001	Sensory and Motor Rehabilitation	3:0:0	3
4.	19BM2002	Biomedical Optics	3:0:0	3
5.	19BM2003	Biometric Systems	3:0:0	3
6.	19BM2004	Nuclear Medicine	3:0:0	3
7.	19BM2005	Analytical Instrumentation	3:0:0	3
8.	19BM2006	Graphical System Design for Biomedical Engineers	3:0:0	3
9.	19BM2007	Bio-MEMS Technology	3:0:0	3
10.	19BM2008	Machine Learning and Artificial Intelligence	3:0:0	3
11.	19BM2009	Telemedicine	3:0:0	3
12.	19BM2010	Biomaterials and Artificial Organs	3:0:0	3
13.	19BM2011	Patient and Device Safety	3:0:0	3
14.	19BM2012	Robots in Healthcare	3:0:0	3
15.	19BM2013	Radiological Imaging Techniques	3:0:0	3
16.	19BM2014	Biomechanics	3:0:0	3
17.	19BM2015	Medical Ethics and Standards	3:0:0	3
18.	19BM2016	Signals and Systems for Biomedical Engineers	3:0:0	3
19.	19BM2017	Biophysics and Biochemistry	3:0:0	3
20.	19BM2018	Human Anatomy and Physiology	3:0:2	4
21.	19BM2019	Biomedical Sensors	3:0:0	3
22.	19BM2020	Signal Conditioning Circuits	3:0:0	3
23.	19BM2021	Signal Conditioning Circuits Laboratory	0:0:3	1.5
24.	19BM2022	Control System for Biomedical Engineers	3:0:0	3
25.	19BM2023	Image Processing for Medical Applications	3:0:0	3
26.	19BM2024	Image processing Laboratory for Medical Applications	0:0:3	1.5
27.	19BM2025	Embedded systems for Biomedical Applications	3:0:0	3
28.	19BM2026	Embedded Systems Laboratory for Biomedical Applications	0:0:3	1.5
29.	19BM2027	BioMEMS laboratory	0:0:3	1.5
30.	19BM2028	Medical Imaging Techniques	3:0:0	3
31.	19BM2029	Medical Equipment Maintenance and Troubleshooting	3:0:0	3
32.	19BM2030	Hospital Training	0:0:2	1