

# Analysis of Feedback from Stakeholders and Action Taken (2019-2020)

## Biomedical Engineering

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

### 1.a. Students Feedback

- Students mentioned that the theory and lab courses are good and helpful
- They appealed to add more core subjects related to the field.
- They requested to increase practical hours.

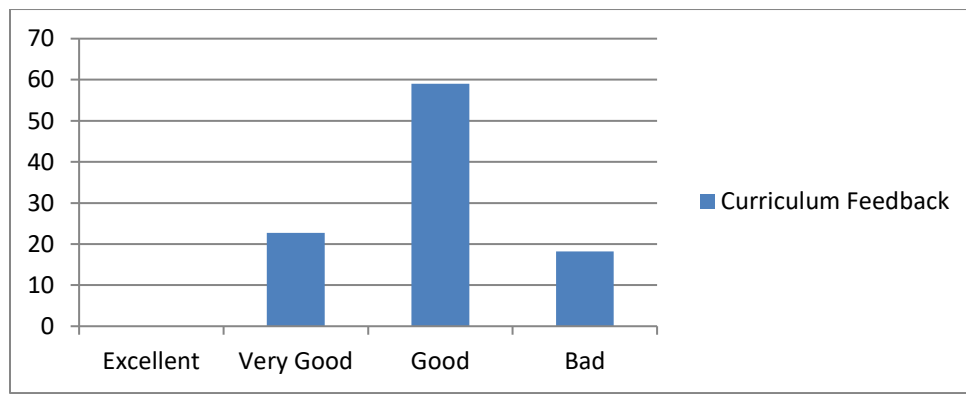
### 1.b. Employers Feedback:

- Students need to have more programming language skills.
- Students are expected to be more trained for attending the placements, though they have good communication skills.
- More Soft-skills training is required as per the employers suggestions.

### 1.c. Alumni Feedback:

- They suggested to bring more up-gradation in the practical
- Conduct training sessions for students to get placed in core companies.

## 2) Analysis:



**Fig. 1. Analysis of Student Feedback - 2019-20**

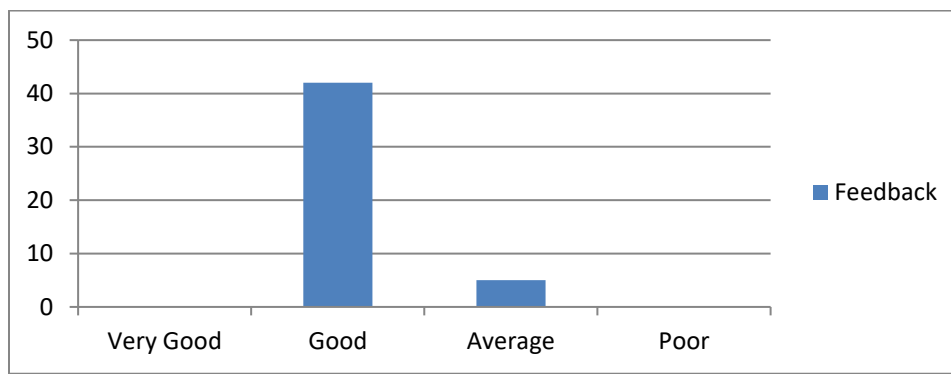


Fig. 2. Analysis of Alumni feedback - 2019-20

### 3) Sample feedback form:



School of Electrical Sciences  
Feedback from Parents for year 2019-20

**Department:**

Feedback from parents helps us to improve the Curriculum and Syllabi, Teaching learning process and mentoring system and thereby cater to the overall development of our students. Your feedback is very valuable to us and will be placed in the forums of relevance for necessary action. Kindly feel free to give your feedback.

1- Excellent    2-Good    3-Average    4-Poor    5-No comments

Sl. No.	Feedback	1	2	3	4	5
<b>Curriculum &amp; Syllabi</b>						
1	How do you rate academic standards of the University	✓				
2	Academic flexibility provided by the CBCS system	✓				
3	After completing the programme, the academic understanding of your ward	✓				
4	Support given by Curriculum and syllabi for getting placement to your ward	✓				
5	Improvement of soft skills and overall development of your ward through the academic programme	✓				
<b>Teaching Learning System</b>						
6	How do you rate the support offered by the faculty in the learning process of your ward?	✓				
7	The laboratory facilities provided by the department		✓			
8	The involvement of faculty in exposing the students to use of technology for practical applications by way of projects, industry interactions, etc.	✓				
9	The support given by the department for co-curricular and extra-curricular activities like paper presentation, quiz, seminars, add on courses, hands on workshops etc.	✓				
10	Career guidance and support offered by the department	✓				
<b>Mentoring System</b>						
11	Communication received from mentors regarding your ward's academic performance and attendance	✓				
12	Approachability of mentors by parents and students	✓				

13	How do you rate the facilities provided in the hostels for the benefit of your ward.	✓				
14	Personal care and counseling services offered by the mentors	✓				

Any other Suggestions :

1. ....
2. ....
3. ....

**D. Sugirtha Christy**  
Signature of Parent/Guardian

Name of the Parent : Sugirtha Christy  
Address : 111/63 A, State Bank Colony,  
Tuticorin - 628002  
Ph. No. : 9487575619  
E-mail : sugirthachristy@gmail.com  
Name of the Student: R.Jane Preetha Princy  
Reg. No. : PRK20EI3001

**INTERNAL QUALITY ASSURANCE CELL (IQAC)**

Feedback from Students on the Curriculum  
and Syllabi of the B.Tech./M.Tech. Programme for the Academic Year \_\_2019-

20\_\_\_\_ Feedback from Mr./Ms. \_\_\_\_\_ WREN JACOB ZACHARIAH \_\_\_\_\_  
 Programme: B.Tech./M.Tech. (\_\_\_\_) BIOMEDICAL ENGINEERING \_\_\_\_\_  
 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. Includes all necessary subjects and is vast enough \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Suggestions to improve the Curriculum

1. None \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

Feedback on No. (tabe) of subjects studied and suggestions for improvement (any three subjects)

Sl.No.	Name of the Subject	Feed back	Suggestions for improvement
1	Multivariable Calculus	Provided good foundation for core subjects.	None.
2	Biology For Engineers	Good foundation for core.	None.
3	Programming for Problem Solving.	Good essential and Provided just basics.	None.

Date: 11/10/2020

Signature:



**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**

1. Name of the Company: M/s ASPIRE SYSTEMS
2. Nature of the Company – IT / IITES / Manufacturing / Service / Construction
3. Please rate the Overall Performance of our students as per the following parameters:-

**Technical Skills**

	Factors	Excellent	Good	Average	Below Average
A	General Aptitude		✓		
	Technical Aptitude		✓		
	Application Oriented Skills		✓		
	Basic Technical Knowledge		✓	✓	

**Soft-Skills**

B	Leadership Qualities		✓		
	Professional Knowledge		✓		
	Result Orientation		✓		
	Creativity		✓		
	Attitude	✓	-		
	Communication Skills	✓			
	Interpersonal Relationship		✓		
	Team Building		✓		
Self Development		✓			

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

BASIC PROGRAMMING SKILLS CAN BE IMPROVED - Can be in any Program lang  
OBPS concern to be improved

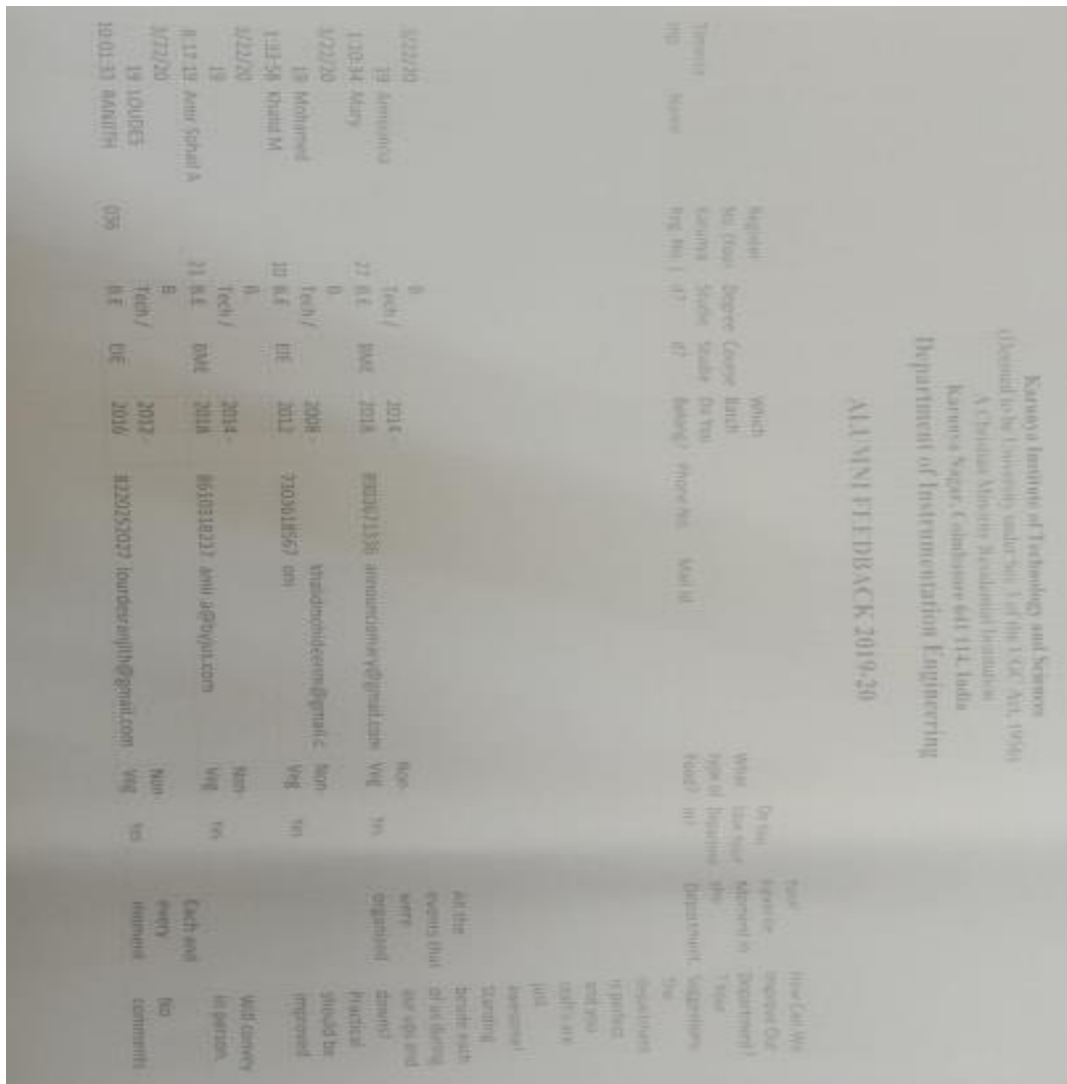
Signature: C. KANE

Name: C. JAYAKANTHAN

Designation: SE. MANAGER

Mobile Number: 9840221677

Date: 25-AUG-19



#### 4) Action Taken

S. No.	Suggestion given	Action Taken
<b>Student Feedback</b>		
	Core Subjects need to be increased	Following Courses were introduced <ul style="list-style-type: none"> <li>• Medical Physics</li> <li>• Biochemistry for Biomedical Engineers</li> </ul>
<b>Alumni Feedback</b>		
	Placement Training sessions need to be conducted to improve placement skills of students	General Aptitude is made mandatory

<b>Employer Feedback</b>		
	Soft Skill Training is required	Soft Skill Course is made mandatory

- Industrial Visits and Hospital Visits were arranged.
- Fundamental concepts were included in all basic courses.
- Soft Skill subject is included in the curriculum
- RPA lab was introduced for PG students

### **Curriculum Development – B.Tech and MTech programme**

- Industrial Visits and Hospital Visits were made mandatory.
- Following courses were added in the curriculum:

SNo	Name of the Courses
1.	Artificial Intelligence and Machine Learning laboratory
2.	RPA Laboratory
3.	Basic Robotics Laboratory
4.	Soft skill

- More improvements were made in the laboratory experiments.
- Value added courses were conducted to improve the students practical skills on various topics.
- Projects oriented courses were included in the curriculum, are listed below:

SNo	Name of the Courses
1	Automatic Control Systems
2	Sensor Signal Conditioning Circuits
3	Microcontrollers
4	Robots kinematics and Dynamics
5	Vision Systems

### **5) Evidence:**



**School of Engineering and Technology**

**Electronics and Instrumentation/Biomedical Engineering/Robotics and Automation**  
**Minutes of Board of Studies Meeting**

Department	Instrumentation Engineering
Title	Departmental BoS
Academic Year	2019-20
Venue	IE Conference Hall
Date & Time	4 <sup>th</sup> July 2019, 2.00 p.m

**Members Present:**

S.No	Name of the Faculty	Designation	Signature
1	Dr. Lazar Mathew	Senior Advisor, Health Sciences and Technology	<i>Lazar Mathew</i> 28/07/19
2	Dr. Thomas George	HOD, IE	<i>T. George</i>
3	Dr. D. Pamela	Associate Professor	<i>P. Pamela</i>
4	Dr. P. Sobha Honey Jose	Assistant Professor	<i>P. Sobha Honey Jose</i>
5	Dr. P. Rajalakshmy	Assistant Professor	<i>P. Rajalakshmy</i>
6	Mr. K. Gerard Jose Nigal	Assistant Professor	<i>K. Gerard Jose Nigal</i>
7	Dr. L.D. Vijay Anand	Assistant Professor	<i>L.D. Vijay Anand</i>
8	Mr. P. Anantha Christhura	Assistant Professor	<i>P. Anantha Christhura</i>

The meeting started with an opening prayer by Dr. P. Sobha Honey Jose.

Dr. S. Thomas George, HOD IE, welcomed Dr. Lazar Mathew, Senior Advisor, Health Sciences and Technology and the Internal BoS members and gave the introductory remarks about the curriculum modifications for B. Tech Robotics and Automation.

The Programme core and Professional electives for B.Tech Robotics and Automation Full time programme of 2019 batch was presented by Dr. P. Rajalakshmy, Academic Co-ordinator.

Category	Suggestions
Total Credits	Total credit distribution was outlined and the credit for each criterion was explained. The changes in credit in the Basic Sciences Component and



Project Computerized highlighted																						
Humanities and Social Sciences	Under the course component "Humanities and Social Sciences", the course on Social Science was not offered. Engineering Economics was included instead of Industrial management.																					
Basic Sciences & Engineering Sciences and Technical Arts	The total number of credits was reduced to 23 due to the modifications in the Physics and Chemistry Courses to suit to B. Tech Robotics and Automation. The course Material Science has been modified by removing redundant topics. The List of Experiments for the Laboratory Engineering Practices were finalized.																					
Professional Core	<p>Dr. Lazar Mathew, Senior Advisor recommended that Artificial Intelligence should be in the core. Hence, the course titled Artificial Intelligence for Robotics was moved from Professional Elective to Professional Core. The total credits for core is hence 57.</p> <p>The content of the course Microprocessor and Microcontroller was analyzed and the following modifications were recommended by the board members.</p> <ol style="list-style-type: none"> <li>The course 18EC2010 Digital Electronics to be modified as Digital Electronics and Microprocessors</li> <li>The course 18EC2028 Microprocessors and Microcontrollers to be replaced by Microcontrollers for Robotics</li> <li>The Laboratory Course 18EC2029 Microprocessors and Microcontrollers Laboratory to be replaced by Microcontrollers Laboratory for Robotics</li> <li>HdD-Dr. S. Thomas George mentioned that all the courses should be project oriented and the following courses were identified to be given Mini project as a mandatory requirement. <ul style="list-style-type: none"> <li>Automatic Control Systems</li> <li>Sensor Signal Conditioning Circuits</li> <li>Microcontrollers</li> <li>Robot Kinematics and Dynamics</li> <li>Vision Systems</li> <li>Automation System Design</li> </ul> </li> <li>The following faculty members were assigned the responsibility of conduction Add on courses to students on various skill sets required for B. Tech Robotics and Automation and B. Tech Biomedical Engineering</li> </ol> <table border="1"> <thead> <tr> <th>S. No.</th> <th>Add On Course</th> <th>Faculty In-charge</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>PLC, SCADA, DCS</td> <td>Mr. K. Gerard</td> </tr> <tr> <td>2.</td> <td>Embedded Systems</td> <td>Dr. X. Anitha Mary</td> </tr> <tr> <td>3.</td> <td>FDP on Robotics</td> <td>Dr. P. Subha Hency</td> </tr> <tr> <td>4.</td> <td>CAD and 3D Printing</td> <td>Dr. L. D. Vijay Arand</td> </tr> <tr> <td>5.</td> <td>Basic Electronics</td> <td>Dr. D. Pamela</td> </tr> <tr> <td>6.</td> <td>Matlab and LabVIEW</td> <td>Dr. P. Rajalakshmy/ Dr. P. Manimegalai</td> </tr> </tbody> </table>	S. No.	Add On Course	Faculty In-charge	1.	PLC, SCADA, DCS	Mr. K. Gerard	2.	Embedded Systems	Dr. X. Anitha Mary	3.	FDP on Robotics	Dr. P. Subha Hency	4.	CAD and 3D Printing	Dr. L. D. Vijay Arand	5.	Basic Electronics	Dr. D. Pamela	6.	Matlab and LabVIEW	Dr. P. Rajalakshmy/ Dr. P. Manimegalai
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2021/8/