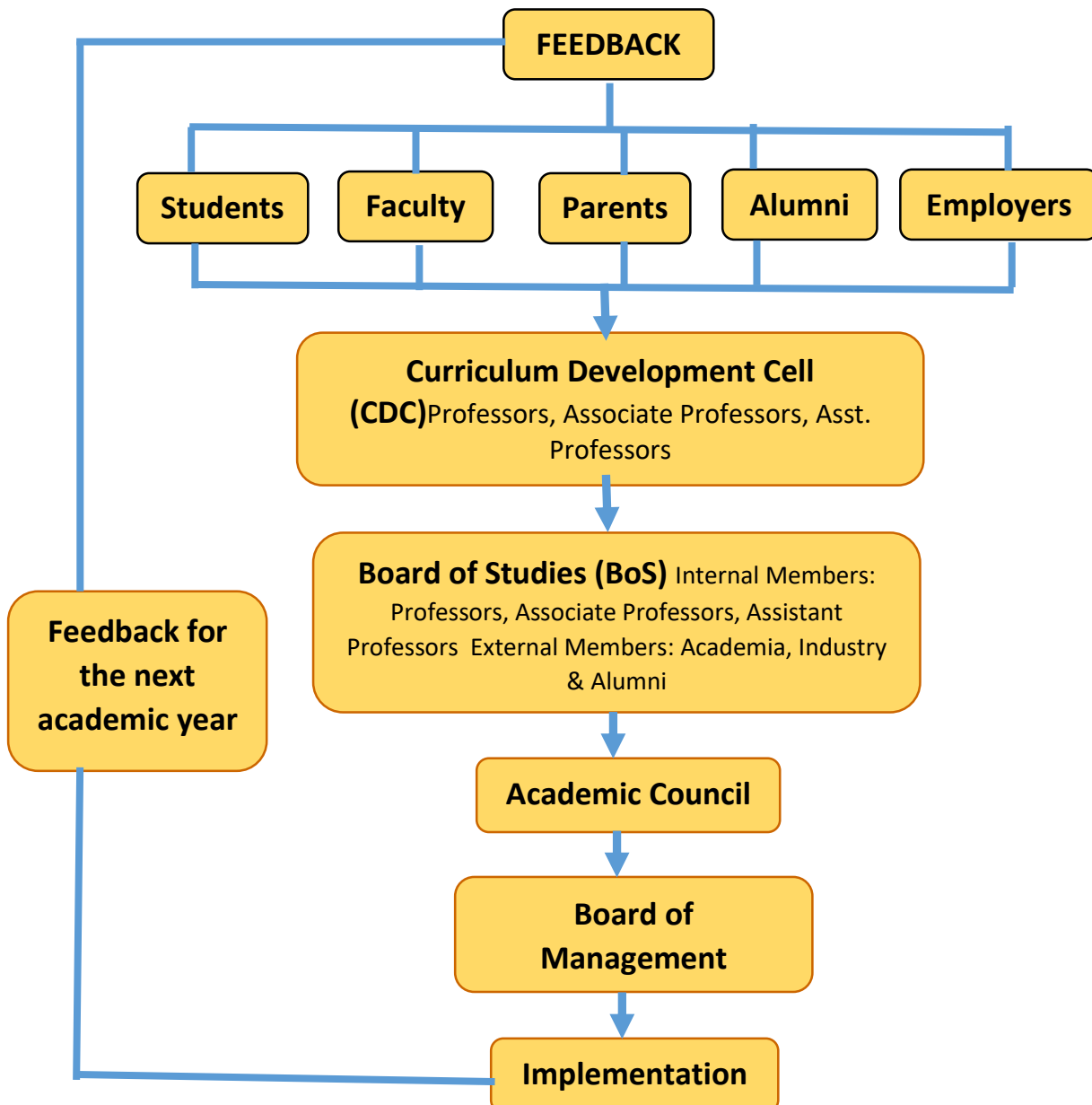# PROCESS ON CURRICULUM DESIGN

In order to enrich the curriculum and syllabi, statutory meetings like Board of Studies, Academic Council and Board of Management are conducted twice a year. During this enrichment process, feedback on the curriculum & syllabi from various stakeholders like students, faculty members, parents, alumni and employers are obtained through structured feedback forms. Based on the feedback, Curriculum Development Cell (CDC) will analyse and consolidate the changes required in the courses and syllabi.

The CDC minutes which highlights the changes incorporated based on the feedback analysis report will be presented in the Board of Studies (BoS) meeting. BoS will thoroughly scrutinise the entire curriculum & syllabi and carryout the necessary changes in the curriculum & syllabi.

The HoDs concerned will present the salient features of the proposed changes in the curriculum and syllabi and move the resolutions in the Academic Council. The suggestions given by the Academic Council will be incorporated by the HoDs and the minutes of the Academic Council will be presented to the Board of Management for review and approval. The process flow chart is given below.

```
                            ┌──────────────┐
                            │   FEEDBACK   │
                            └──────────────┘
                                   │
        ┌──────────┬──────────┬──────────┬──────────┐
   ┌─────────┐ ┌─────────┐ ┌─────────┐ ┌─────────┐ ┌───────────┐
   │ Students│ │ Faculty │ │ Parents │ │ Alumni  │ │ Employers │
   └─────────┘ └─────────┘ └─────────┘ └─────────┘ └───────────┘
```

Curriculum Development Cell (CDC) Professors, Associate Professors, Asst. Professors

Board of Studies (BoS) Internal Members: Professors, Associate Professors, Assistant Professors External Members: Academia, Industry & Alumni

Feedback for the next academic year

Academic Council

Board of Management

Implementation

Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

(Declared as Deemed to be University under Sec.3 of the UGC Act, 1956)

A CHRISTIAN MINORITY RESIDENTIAL INSTITUTION

AICTE Approved & NAAC Accredited

Karunya Nagar, Coimbatore – 641 114, Tamil Nadu, India

School of Engineering & Technology
Department of Electrical & Electronics Engineering

Batch: 2016-20

<u>Students Feedback Form on PO and PSO</u>

Program Outcome (PO) of the University and Program Specific Objective (PSO) of the EEE department are listed below. Indicate in the table below, how much percentage of each Program Outcome (PO) and Program Specific Objective (PSO), according to you is achieved by you.

Program Outcomes (POs) as identified by National Board of Accreditation (NBA), India are what the graduates of an undergraduate engineering program should be able to do at the time of graduation. The POs are discipline non-specific.

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis**: Identify, formulate, research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions**: Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations

4. **Conduct investigations of complex problems**: Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **Modern tool usage**: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

6. **The engineer and society**: Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **Environment and sustainability**: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

8. **Ethics**: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work**: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

10. **Communication**: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

11. **Project management and finance**: Demonstrate knowledge and understanding of the Engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

12. **Life-long learning**: Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

PROGRAM SPECIFIC OBJECTIVES (P.S.O) of EEE Department

1. Provide solid foundation in mathematical, scientific and engineering fundamentals which is required to solve electrical and electronics engineering problems. .

2. Specify, architect, analyze and design the systems that efficiently generate, transmit, distribute, convert and utilize electric power.

3. Understand, analyze, simulate and design the electrical machines, modern electrical drives, modern lighting systems, energy systems and automation of systems and to determine their performance through testing.

4. Specify, analyze, design, implement and test the analog and digital systems using the state of art components, software tools and ICT.

PO & PSO Achievements
(5-strongly agree, 4-agree, 3-Neutral, 2-disagree, 1-strongly disagree)

PO1	PO2	PO3	PO4	PO5	PO5	PO7	PO8	PO9	PO10	PO11	PO12	**PSO1**	**PSO2**	**PSO3**	**PSO4**

Name of the student   :

Register no. of the student:

Signature of the student   :

Karunya Institute of Technology and 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**
2. **Nature of the Company** – IT / ITES / 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 :-

_____
_____
_____
_____

Signature: _____

Name: _____

Designation: _____

Mobile Number: _____

Date: _____

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School of Engineering & Technology
Department of Electrical & Electronics Engineering

Sr. No.	Statement
	FEEDBACK FORM FOR VISION, MISSION & PEOs FROM PARENTS
	NAME OF PARENT:
1	**Current VISION Statement** To produce globally competent electrical and electronics engineers for addressing the needs of humanity with ethical values.
2	**Current MISSION Statement** ➢ To empower the students with knowledge in recent trends in Electrical and Electronics Engineering ➢ To impart technical skills to resolve industrial problems through innovative teaching learning practices and research. ➢ To raise professionals, academicians, researchers and entrepreneurs with a passion for solving societal problems.
3	**Program Educational Objectives (PEOs)** PEO 1. Pursue a successful career by demonstrating the knowledge acquired in Electrical Engineering PEO 2. Exhibit technical skills in solving real world problems considering societal, technological and business challenges. PEO 3. Engage in professional practice with ethical values and attitude of lifelong learning.

Dear Parent, do you feel:

1. Whether the current statements of vision, mission and PEOs is as per current need. Yes ☐ NO ☐

2. Whether the institute is moving towards right path as per vision & mission statement. Yes ☐ NO ☐

3. Do you want to suggest changes in

   a) Mission statement   Yes ☐ NO ☐

   If yes, give suggestion here:……………………………………………………………………...…
……………………………………………………………………………………………………....

   b) PEOs statement   Yes ☐ NO ☐

   If yes, give suggestion here:……………………………………………………………………...
……………………………………………………………………………………………………

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 and 5.

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

S.No	Questions	Rating
Curriculum		
1	The Curriculum of the course is well designed and promotes learning experience to the students.	
2	The Curriculum incorporates technical advancements in the relevant field of study.	
3	Does the Choice Based Credit System (CBCS) adapted in the Curriculum improve the academic flexibility?	
4	Employability is given focus in the curriculum design.	
5	Value Add programmes like Communication Skills/Soft Skills development are added in the Curriculum.	
6	The Institution provides for inter-institutional credit transfers.	
7	Rating about Vision, Mission and PEO's	
Teaching-Learning		
8	Does the department have adequate number of faculty to handle the course?	
9	Does the department have faculty experts in relevant field of study?	
10	Does the faculty cover the syllabus effectively for the course?	
11	Whether adequate technical guidance given to your ward for completion of Quality Assessment/Project Work	
12	Does the department have adequate library, laboratory and other infrastructure facility for the students?	
Students		
13	Does the department encourage the students to participate in Inter-Collegiate/Inter-Institutional Technical Fest?	
14	Do you receive relevant information like Attendance Percentage; Internal Test marks/Progress Report etc from the department?	
Mentoring		
15	Does the mentor of your ward offer a good mentoring?	
16	Does the mentor communicate to you often about the academic status of your ward?	
17	Does the mentor offer personal counseling to your ward when needed?	

Suggestions for further improvement:

_____

_____

_____

_____

Signature of the Parent with Date

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School of Engineering & Technology
Department of Electrical & Electronics Engineering

<u>Alumni Feedback Form</u>

Essential Information

Alumni Name			
Father's Name			
Date of Birth		Reg. No	
Name of the degree studied		Year of passing out	
Other Qualification	M.E/MBA/M.S/M.Tech	Name of the Institute & Year of passing out	
	Ph.D	Name of the Institute & Year of passing out	
	Others	Name of the Institute & Year of passing out	
Permanent Address			
Contact No:		Email ID	
Present Organization			
Designation & Nature of Job			
Work Experience	**Current Job:**		
	Previous Job:		

	(list all the organizations where you worked)

FEEDBACK FORM FOR VISION, MISSION & PEOs FROM ALUMNI	
NAME OF ALUMNI:	
Sr. No.	**Statement**
1	**Current VISION Statement** To produce globally competent electrical and electronics engineers for addressing the needs of humanity with ethical values.
2	**Current MISSION Statement** ➢ To empower the students with knowledge in recent trends in Electrical and Electronics Engineering ➢ To impart technical skills to resolve industrial problems through innovative teaching learning practices and research. ➢ To raise professionals, academicians, researchers and entrepreneurs with a passion for solving societal problems.
3	**Program Educational Objectives (PEOs)** PEO 1. Pursue a successful career by demonstrating the knowledge acquired in Electrical Engineering PEO 2. Exhibit technical skills in solving real world problems considering societal, technological and business challenges. PEO 3. Engage in professional practice with ethical values and attitude of lifelong learning.

Dear Alumni, do you feel:

1. Whether the current statements of vision, mission and PEOs is as per current need. Yes☐ NO☐

2. Whether the institute is moving towards right path as per vision & mission statement. Yes ☐ NO☐

3. Do you want to suggest changes in

   a) Mission statement   Yes☐ NO ☐

      If yes, give suggestion here:……………………………………………………………...…

      …………………………………………………………………………………………...

   b) PEOs statement   Yes☐ NO ☐

      If yes, give suggestion here:…………………………………………………………...

      …………………………………………………………………………………………

FEEDBACK ABOUT THEPROGRAMME

Please rate each of the following skills, abilities or attributes in terms of their importance and use in your job, and state how well your education at Karunya Institute of Technology/Karunya University prepared you for these.**Please give your feedback by appropriate scale (1 to 5)**Where, 1 - Strongly Disagree that we have achieved with our goal 2 - Disagree that we have achieved with our goal 3 - Neutral with our goal 4 - Agree that we have achieved with our goal 5 - Strongly Agree that we have achieved with our goal

S.No	Questions	Scores				
1	Ability acquired to apply technical knowledge in identifying and analyzing engineering problems	1	2	3	4	5
2	Ability acquired to integrate knowledge in providing solution for problems with multi-disciplinary approach	1	2	3	4	5
3	Ability acquired to continue learning new technologies, processes and domains	1	2	3	4	5
4	Understand professional and ethical responsibilities as an engineer *(e.g. safety, professional ethics, code of conduct).*	1	2	3	4	5
5	Ability acquired to function and communicate effectively	1	2	3	4	5
6	Be aware of the need for, and improved my ability to engage in life-long learning *(seeking further education, self learning, membership in professional societies).*	1	2	3	4	5
7	Be aware of contemporary issues *(e.g. economics of engineering, environmental issues, etc…)*	1	2	3	4	5
8	Understand and appreciate the impact of engineering in the societal and global contexts	1	2	3	4	5

FEEDBACK ABOUT THE DEPARTMENT

S.No	Questions	Scores				
9	How do you rate the developmental activities organized by the department for your overall development	1	2	3	4	5
Rate the adequacy of the following as they were during your tenure as a student here:						
10	Laboratories & Equipments	1	2	3	4	5
11	Infrastructure	1	2	3	4	5
12	Library facilities	1	2	3	4	5
13	Internet & Wi-Fi facilities	1	2	3	4	5
14	R & D Projects/ Industry Oriented Projects	1	2	3	4	5
15	Seminars, Workshops & Addon Programmes	1	2	3	4	5
16	Special training classes to bridge the Industry-Academic Gap	1	2	3	4	5
17	Has the Career Guidance cell/ Centre for placement & training provided ample ON CAMPUS placement opportunities?	1	2	3	4	5
18	Has the Career Guidance cell/ Centre for placement & training provided ample OFF CAMPUS placement opportunities?	1	2	3	4	5
19	Have you availed career counseling and guidance for higher studies from centre for placement & training/Career Guidance cell?	1	2	3	4	5
20	Were you benefitted by the mentoring System in the department?	1	2	3	4	5

21. Mention the subjects which are more relevant to your work.

_____

_____

_____

22. Mention the subjects which are essential to the students before they enter into the market.

_____

_____

23. Would like to contribute to the Curriculum enrichment/Recruiter/Collaborator for research projects/Soft skills trainer/Resource person for Workshop?

_____

24. Would like to get updates about the department through emails/SMS? Yes/No

25. Have you made any significant achievement as student of Karunya Institute of Technology/ Karunya University? If yes, share the detail.

_____

26. Have you made any significant achievement as an employee of the present/previous organization? If yes, share the detail.

_____

27. Suggestions for Improvement:

Signature of the Alumni
Date: