

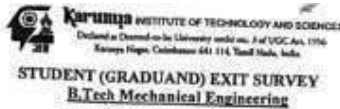
DEPARTMENT OF MECHANICAL ENGINEERING

FEEDBACK FROM STAKEHOLDERS AND ACTION TAKEN
2018-19

The department follows a formal and structured mechanism to obtain feedback from stakeholders through various feedback forms etc.

Students' Feedback:

Feedback is obtained from the students on various aspects of teaching, learning, curriculum that are in line with the Programme outcomes and Programme Specific Outcomes. The suggestions and comments given by them are taken into consideration, discussed in the board of studies and necessary changes and modifications were carried out for the benefit of the subsequent batches of students.



STUDENT (GRADUAND) EXIT SURVEY
B.Tech Mechanical Engineering

Dear Graduannd,

We shall very much appreciate if you can spare some of your valuable time to fill up this programme exit survey. It would help us in our efforts to develop the best talent in terms of qualified and morally upright engineers who can make meaningful contributions to the society. HoD/Mech. Engg.

Name as per Karunya records: SONU S VALARKOTTU Reg.No: UR14ME050 Section: _____

If Placed, provide the details: Company Name: NIL Location: _____ Position: _____ Salary: _____

Which competitive exam have you appeared for? GATE / GRE / TOEFL / GMAT / CAT Score / Rank / Percentile : _____

Other competitive or services exams: Please Specify with Score / Rank / Percentage : _____

Are you trying for Higher Education? Yes Where? India/Abroad If Yes Tick the Relevant : M.Tech / M.B.A / M.S / P.G.Diploma

To Which university are you trying for higher education? CANADA, AUSTRALIA

S.No	Survey Questions	5 (Excellent)	4 (Very Good)	3 (Good)	2 (Average)	1 (Needs Improvement)
1	The Department provided a curriculum which enabled me meet my degree programme educational objectives				✓	
2	The projects that I undertook were useful in applying the knowledge I gained through this programme			✓		
3	The knowledge I gained enabled me get a placement at the end of the programme				✓	
4	This degree programme adequately prepared me for extending my academic career and a life-long learning process as I keep continuing in my profession			✓		
5	The laboratory facilities enabled me gain hands-on experience besides theory giving me a confidence to take up challenges in modern engineering practice		✓			
6	This Programme helped me in improving my analytical and problem-solving skills which I can successfully employ in solving problems faced by the society				✓	
7	This Programme helped me in improving my technical and communicational skills through various seminars, symposia, conferences and workshops			✓		
8	The expertise and availability of the faculty satisfied my academic interests				✓	
9	Methodologies such as Wi-Fi, online advise, web-based learning management system, LCD presentations etc., helped me in better teaching-learning process				✓	
10	I was sensitized on social ethics/moral values					✓

Any other comments or suggestions: In Engg drawing, the Perspective Projections can be included.

Communication Address:

SOMU SANTHUSANAM, VALARKOTTU
HOUSE TRIKKAKKARA (P.O) KOCHI
KERALA 682021

Signature of the Mentor

School Placement Officer

Signature & Date: 17/4/18

Mobile No: 9496474841

Email ID: SONU.SVALARKOTTU@gmail.com

STUDENT (GRADUAND) EXIT SURVEY
B.Tech Mechanical Engineering

Dear Graduannd,

We shall very much appreciate if you can spare some of your valuable time to fill up this programme exit survey. It would help us in our efforts to develop the best talent in terms of qualified and morally upright engineers who can make meaningful contributions to the society. HoD/Mech.Engg.

Name as per Karunya records: KUMAR SAI KUMAR Reg.No: UR1UMEO12 Section: _____

If Placed, provide the details: Company Name: FACE Location: CHENNAI Position: Asst. Hard Drive Salary: 27000/month

Which competitive exam have you appeared for? GATE / GRE / TOEFL / GMAT / CAT Score / Rank/ Percentile : _____

Other competitive or services exams: Please Specify with Score / Rank / Percentage : _____

Are you trying for Higher Education? Yes/No Where? India/Abroad If Yes Tick the Relevant : M.Tech / M.B.A / M.S / P.G.Diploma

To Which university are you trying for higher education? _____

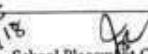
S.No	Survey Questions	5 (Excellent)	4 (Very Good)	3 (Good)	2 (Average)	1 (Needs Improvement)
1	The Department provided a curriculum which enabled me meet my degree programme educational objectives	✓				
2	The projects that I undertook were useful in applying the knowledge I gained through this programme	✓				
3	The knowledge I gained enabled me get a placement at the end of the programme			✓		
4	This degree programme adequately prepared me for extending my academic career and a life-long learning process as I keep continuing in my profession		✓			
5	The laboratory facilities enabled me gain hands-on experience besides theory giving me a confidence to take up challenges in modern engineering practice	✓				
6	This Programme helped me in improving my analytical and problem-solving skills which I can successfully employ in solving problems faced by the society		✓			
7	This Programme helped me in improving my technical and communication skills through various seminars, symposia, conferences and workshops			✓		
8	The expertise and availability of the faculty satisfied my academic interests		✓			
9	Methodologies such as Wi-Fi, online advise, web-based learning management system, LCD presentations etc., helped me in better teaching-learning process		✓			
10	I was sensitized on social ethics/moral values		✓			

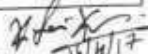
Any other comments or suggestions: Pumps & Turbines may be included in Fluid mechanics subject.

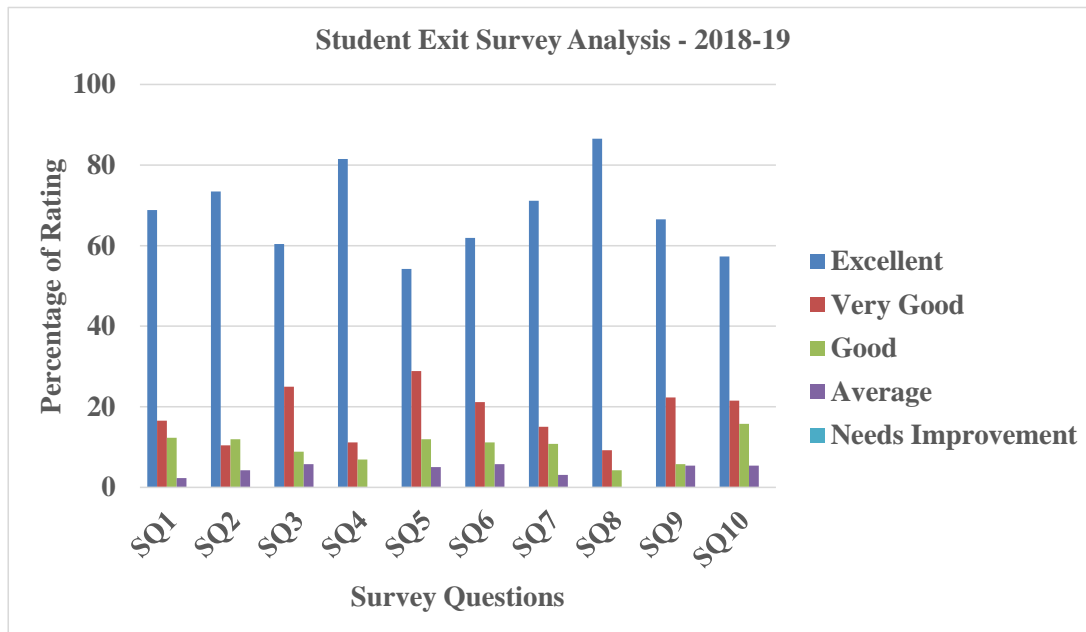
Communication Address:

u-23 V/A1, muthiyada reddy nagar
8th lane amaraavathi road.


 Signature of the Mentor 14/11/18


 School Placement Officer

Signature & Date:  14/11/18
 Mobile No: 9182936373
 Email ID: kumar.sai.880@gmail



Alumni Feedback:

Feedback is obtained from the alumni on various aspects of teaching, learning, curriculum that are in line with the Programme outcomes and Programme Specific Outcomes. The suggestions and comments given by them are taken into consideration, discussed in the board of studies and necessary changes and modifications were carried out for the benefit of the subsequent batches of students.



Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES
Declared as Deemed-to-be University under sec. 3 of UGC Act, 1956
Karunya Nagar, Coimbatore 641 114, Tamil Nadu, India.

Date : 30/06/18
Purpose of Visit : CONVOCATION

ALUMNI FEEDBACK

Dear Alumnus,

DEPARTMENT OF MECHANICAL ENGINEERING

We shall very much appreciate if you can spare some of your valuable time to fill up this feedback form. It would help us in our efforts to contribute the best talent to the society in terms of qualified and morally upright Engineers. -HoD/Mech.Engg.

Name of the Alumnus as per Karunya Records: <u>JOM ABRAHAM JOHN</u> Reg.No: <u>UP14ME175</u> Mentor Name: <u>EPENEZER JACOB DHAS</u>		Project Guide: <u>DR. D. PHILIP SELVARAJ</u>				
Course Studied (Tick the relevant): <u>B.Tech / M.Tech / Ph.D</u>		Year of Passing: <u>2018</u>				
Higher Studies: <u>Completed/Pursuing</u> <u>M.Tech / M.S / Ph.D</u> <u>India /Abroad</u>		City/State:				
Institution Name:		Course specialization:				
Year of Passing:		Location/Position:				
How were you placed? <u>On-Campus / Off-Campus / Self</u>		Company (Placed):				
Currently working in:		Designation:				
City/State:		Salary/Annum:				
Permanent/Communication address: <u>FLAT 114-B, POCKET - 'A'</u> <u>DILSHAD GARDEN</u> <u>DELHI - 110095</u>		Official Email ID: <u>jomabrahamjohn@gmail.com</u>				
		Personal:				
		Facebook ID:				
Landline with STD Code:		Mobile No: <u>8586858602</u>				
Pin Code: <u>110095</u>		Rating				
S.No	Assessment Criteria	Rating				
		5 (Excellent)	4 (Very Good)	3 (Good)	2 (Average)	1 (Needs Improvement)
1	Opportunity provided for improving communication skills	✓				
2	Guidance on personality development and character building		✓			
3	Input towards attitudinal improvement (such as self-motivation, level of confidence)		✓			
4	Teaching on ethical and social responsibilities	✓				
5	Motivation towards serving society		✓			
6	Encouragement received towards higher studies and career enhancement	✓				
7	Academic support extended by the faculty		✓			
8	Mentoring received from the faculty	✓				
9	Opportunity for participation in co-curricular and extra-curricular activities	✓				
10	Opportunity for interaction with the industry		✓			
Any other comments or suggestions: (use separate sheet if necessary) <u>ASTM Standards may be included.</u>						

Signature with Date:

Jom Abraham
30/06/18

Date : 17-05-2018
 Purpose of Visit :

ALUMNI FEEDBACK
DEPARTMENT OF MECHANICAL ENGINEERING

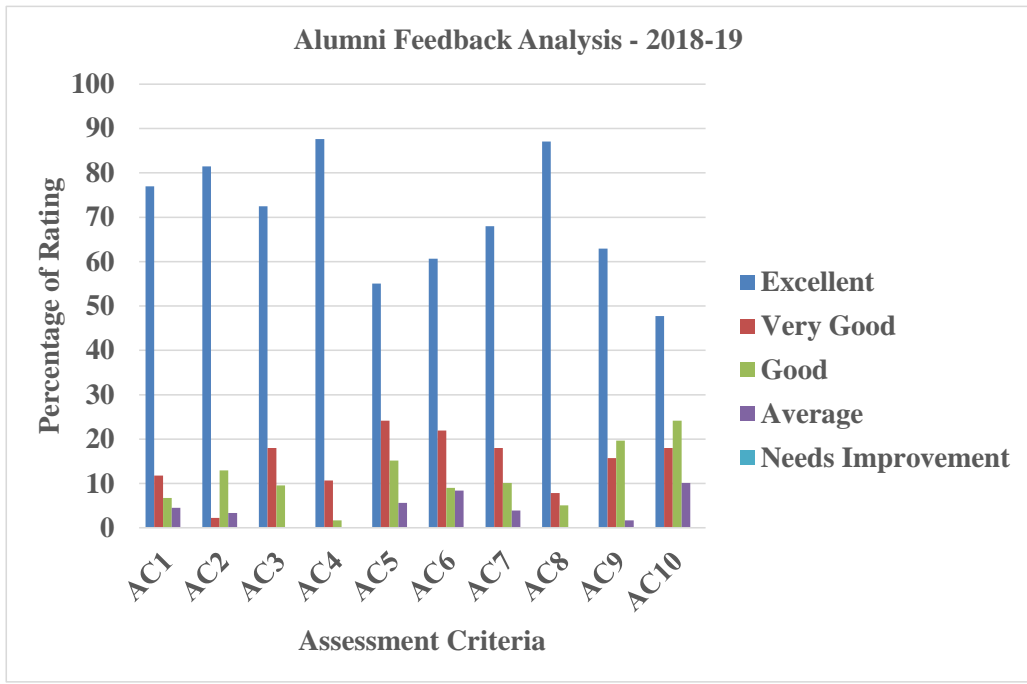
Dear Alumnus,
 We shall very much appreciate if you can spare some of your valuable time to fill up this feedback form. It would help us in our efforts to contribute the best talent to the society in terms of qualified and morally upright Engineers.

Name of the Alumnus as per Karunya Records: JERISH JOLEY VARUGHESE Reg.No: UR14M2094 Mentor Name: HY. SAM FRANKLIN
 Course Studied (Tick the relevant): B.Tech / M.Tech / Ph.D Year of Passing: _____ Project Guide: HY. R. RAO
 Higher Studies: Completed/Pursuing M.Tech / M.S / Ph.D India / Abroad City/State: _____
 Institution Name: _____ Course specialization: _____ Year of Passing: _____
 How were you placed? On-Campus / Off-Campus / Self Company (Placed): _____ Location/Position: _____
 Currently working in: _____ Designation: _____ City/State: _____ Salary/Annum: _____
 Permanent/Communication address: SHALOM, 68, Harsh Nagar, Housing Board colony, Hoshangabad, Madhya Pradesh
 Landline with STD Code: 07577 - 254517 Pin Code: 461001
 Official Email ID: jerishjv26@gmail.com
 Personal Email ID: jerishjv26@gmail.com
 Facebook ID: Jerishjv
 Mobile No: 91 9704674613

S.No	Assessment Criteria	Rating				
		5 (Excellent)	4 (Very Good)	3 (Good)	2 (Average)	1 (Needs Improvement)
1	Opportunity provided for improving communication skills				✓	
2	Guidance on personality development and character building					
3	Input towards attitudinal improvement (such as self-motivation, level of confidence)	✓				
4	Teaching on ethical and social responsibilities		✓			
5	Motivation towards serving society			✓		
6	Encouragement received towards higher studies and career enhancement	✓				
7	Academic support extended by the faculty		✓			
8	Mentoring received from the faculty			✓		
9	Opportunity for participation in co-curricular and extra-curricular activities	✓				
10	Opportunity for interaction with the industry		✓			

Any other comments or suggestions: Advanced metrology and measurement system can be added for syllabus
 (use separate sheet if necessary)

Signature with Date: Jerish
17/05/2018



Employer Feedback:

Feedback is obtained from the employer about the students' technical aptitude, general aptitude, communications skills and interpersonal skills during the placement drives on campus. The suggestions and comments given by them are analysed and discussed in the department board of studies and necessary modifications are implemented for the benefit of the future batches of students.

**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 Innov Source
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

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

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

In Auto-CAD application students to be improved. I could observe they couldn't answer theoretical on Auto-CAD. They have to improve in Autocad overall. It is good if they could work on 3D softwares. It will be useful in Architectural purposes.

Signature: D. Ashok Kumar

Name: D. Ashok Kumar

Designation: Chief Consultant

Mobile Number: 98422 82274

Date: 21.4.2018

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 *Orchid Modular Industries.*
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
General Aptitude		✓		
A Technical Aptitude			✓	
Application Oriented Skills			✓	
Basic Technical Knowledge			✓	

Soft-Skills

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

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

Everyone should show interest on learning of softwares as it stands as a core for the development of carrier and company.

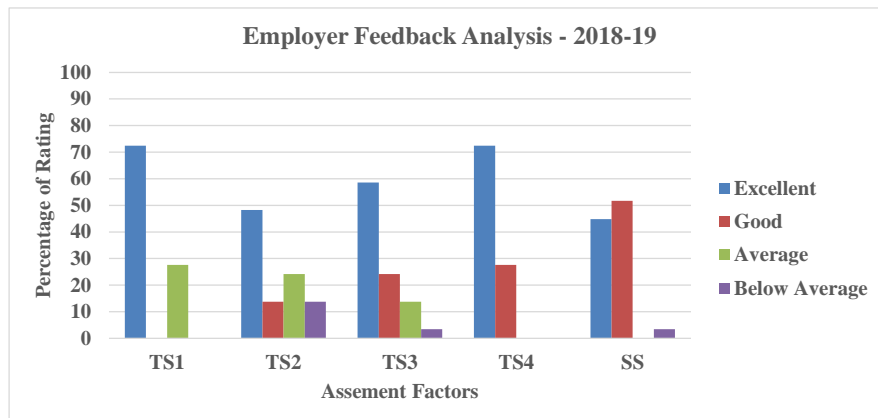
Signature: *C. S. Kumar*

Name: *SABU KUMAR S.*

Designation: *Managing Director.*

Mobile Number: *9790752563*

Date: *21-04-2018.*



Parents Feedback:

Feedback is obtained from the parents of the students about the wholistic development of their wards in terms of the academic input, teaching and learning environment, departmental support, institutional support and hostel support for the well-being and growth of their wards. The suggestions were well taken and implemented accordingly.



DEPARTMENT OF MECHANICAL ENGINEERING

Parents' Feedback

Dear Parent,

We shall very much appreciate and be grateful if you can spare some of your valuable time to fill up this feedback form. It would help us in our efforts to contribute the best talent to the society in terms of qualified and morally upright Engineers.

-HoD/Mech.

Name of your Ward: <u>Jeevish Jolly Vaoghese</u>	Reg. No: <u>UR14ME084</u>
Programme studied: <u>B.Tech / M.Tech</u>	Year: <u>2014-2018</u>

S.No	Assessment Criteria	3 Point Scale Rating		
		Strongly Agree	Partially Agree	Disagree
1	Getting admission in Karunya University for my ward is a matter of pride	✓		
2	I often interacted with my ward and Department/Institute Staff to find out his/her academic progress		✓	
3	The student's discipline in the Institute is good		✓	
4	The atmosphere in the Department/Institute is conducive for good living and learning		✓	
5	There is a positive change in the behavior of my ward after joining the Institute	✓		
6	The curriculum of the Mechanical Engineering programme is well designed and incorporates latest topics for better employability	✓		
7	The Department Library/Central Library of the Institute is equipped with latest books and facilities for self-learning	✓		
8	All the Department/Institute Employees are cordial and cooperative	✓		
9	The Department/Institute helped my ward to develop Communication & Technical skills		✓	
10	Hostel accommodation and food in the mess is good and well maintained with all amenities	✓		
11	The Institute has good Sports & Games facilities	✓		
12	The Medical facilities provided at the Institute are good		✓	

Any other comments or suggestions for improvement:
Project oriented training can be given..

	Father	Mother	Guardian
Name	<u>Mr Vaoghese</u>		
Mobile Number	<u>7904674613</u>		
Email ID	<u>jevish.jolly@gmail.com</u>		
Address for Communication		Permanent Address	
		<u>Shalom, 68, Harish Nagar, Housing board colony, Hshangabad, M.P.</u>	

Vaoghese
Signature of the Parent

Name of the Parent
Mr. Vaoghese

Date
17/5/2018



DEPARTMENT OF MECHANICAL ENGINEERING

Parents' Feedback

Dear Parent,

We shall very much appreciate and be grateful if you can spare some of your valuable time to fill up this feedback form. It would help us in our efforts to contribute the best talent to the society in terms of qualified and morally upright Engineers.
-HoD/Mech.

Name of your Ward: <i>SOM ABRAHAM SOHN</i>	Reg. No: <i>UR16ME175</i>
Programme studied: <i>B.Tech / M.Tech</i>	Year: <i>2016 - 2018</i>

S.No	Assessment Criteria	3 Point Scale Rating		
		Strongly Agree	Partially Agree	Disagree
1	Getting admission in Karunya University for my ward is a matter of pride	✓		
2	I often interacted with my ward and Department/Institute Staff to find out his/her academic progress		✓	
3	The student's discipline in the Institute is good	✓		
4	The atmosphere in the Department/Institute is conducive for good living and learning	✓		
5	There is a positive change in the behavior of my ward after joining the Institute	✓		
6	The curriculum of the Mechanical Engineering programme is well designed and incorporates latest topics for better employability	✓		
7	The Department Library/Central Library of the Institute is equipped with latest books and facilities for self-learning	✓		
8	All the Department/Institute Employees are cordial and cooperative	✓		
9	The Department/Institute helped my ward to develop Communication & Technical skills	✓		
10	Hostel accommodation and food in the mess is good and well maintained with all amenities	✓		
11	The Institute has good Sports & Games facilities	✓		
12	The Medical facilities provided at the Institute are good		✓	

Any other comments or suggestions for improvement:

Industry based courses can be included in the course.

	Father	Mother	Guardian
Name	<i>Mr. Abraham Sohn</i>		
Mobile Number	<i>9526258602</i>		
Email ID	<i>Som Abraham Sohn@gmail.com</i>		
Address for Communication	Permanent Address		
	<i>11/2114B - B, Dacht #A Dilshad Garden Delhi - 110095</i>		

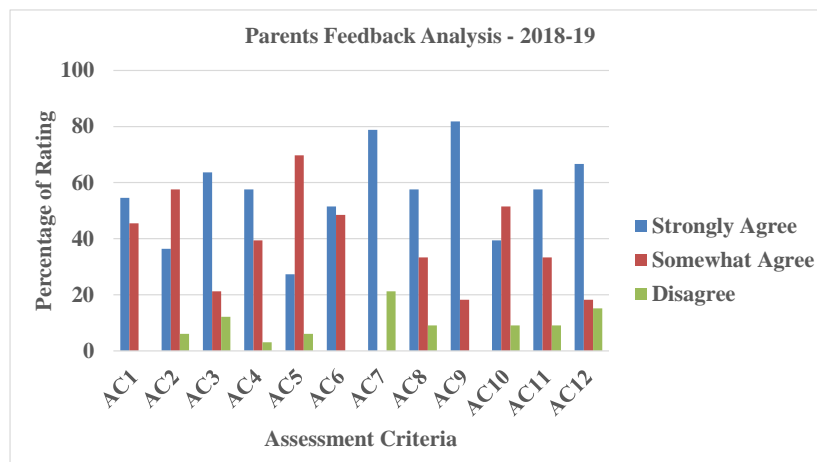
Abraham Sohn
Signature of the Parent

Name of the Parent

Mr. Abraham Sohn

Date

30/06/2019



Action Taken Report

Students Feedback:

As per the student's feedback and suggestions the changes were incorporated in the curriculum.

- In the Engineering Drawing course, the perspective projections topics are included.
- In Fluid Mechanics course, concepts of pumps and turbines are included

Alumni Feedback:

- ASTM standards are included in the syllabus.
- Advanced metrology and measurement systems are added in the syllabus.

Parents Feedback:

As per the feedback from parents, few project based courses were added. AMZ laboratory has been added in the curriculum. This enables all the students to undergo the hands on training in designing and fabricating the automobiles at various levels and participate in the competitions that are conducted at national level.

Employers Feedback:

More emphasis was given towards the software courses that are related to the mechanical engineering field. Apart from enhancing the exercises in the AutoCAD, few CAD certificate courses were introduced to the students like, CREO, Solidworks, CATIA and Inventor.

The table below shows the new courses which were added to the curriculum and revamped courses for the benefit of student community.

1	18ME1001	Engineering Drawing	3:0:0
2	18ME1003	Engineering Mechanics	3:0:0
3	18ME1006	WORKSHOP PRACTICE	0:0:2
4	18ME2009	Fluid Mechanics Laboratory	0:0:2
5	18ME2013	Strength of Materials Laboratory	0:0:2
6	18ME2015	Kinematics and Theory of Machines	3:0:0
7	18ME2016	Design of Machine Elements	3:0:0
8	18ME2017	Design of Transmission Systems	3:0:0
9	18ME2019	Machine Drawing Laboratory	0:0:2
10	18ME2020	Manufacturing Processes	3:0:0
11	18ME2022	Manufacturing Technology	3:0:0
12	18ME2024	Computer Aided Manufacturing Laboratory	0:0:2

13	18ME2025	Materials Engineering	3:0:0
14	18ME2035	Technical Aptitude	1:0:0
15	18ME2036	Thermodynamics	3:0:0
16	18ME2037	Applied Thermodynamics	3:0:0
17	18ME2038	THERMAL ENGINEERING LAB	0:0:2
18	18ME2039	Fluid Mechanics and Fluid Machines	3:0:0
19	18ME2045	Gas Dynamics and Jet Propulsion	3:0:0
20	18ME2046	Solar Thermal Power Engineering	3:0:0
21	18ME2048	Product Design and Development Strategies	3:0:0
22	18ME2049	Composite Materials	3:0:0
23	18ME2052	Design for Manufacture	3:0:0
24	18ME2053	Tribology	3:0:0
25	18ME2055	Computer Aided Design	3:0:0
26	18ME2056	Micro and Nano Machining	3:0:0
27	18ME2061	Industrial Engineering	3:0:0
28	18ME2064	Automation in manufacturing	3:0:0
29	18ME2067	Automobile Engineering	3:0:0
30	18ME2069	Energy Conservation and Management	3:0:0
31	18ME2080	Introduction to Food Process Engineering and Technology	3:0:0
32	18ME2081	INTRODUCTION TO MODERN ENERGY TECHNOLOGIES	3:0:0
33	18ME2082	INTRODUCTION TO WATER TECHNOLOGIES	3:0:0
34	18ME2083	Introduction to Health Care Science and Technology	3:0:0



Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

Declared as Deemed-to-be University under sec. 3 of UGC Act, 1956
Karunya Nagar, Coimbatore 641 114, Tamil Nadu, India.

Mechanical Engineering

Academic Year (2018 – 19) / Semester: May 2018 (ODD.)

Minutes of the Board of Studies Meeting

Date: 19/05/2018

Time: 9.00 am

Venue: Mechanical Seminar Hall

Members Present:

Chairman	Dr. L. Godson Asirvatham, HoD. – Dept. of Mechanical & Aerospace Engineering
External Members	Dr. V. Sampath, Professor, Department of Metallurgical and Materials Engineering, IIT- Madras
	Dr. Shibu Clement Associate Professor Birla Institute of Technology and Science - Goa Campus
	Dr. Arnalt Stalin Senior Manager, Research and Product Development Air Quality Control System (AQCS), BHEL Ranipet, Vellore (District), Tamil Nadu, India
Internal Members	Dr. K. Leo Dev Wins, Professor & Programme Coordinator
	Dr. T.V.Christy, Professor, Mech.
	Dr. D.S. Robinson Smart, Professor, Mech.
	Dr. G. Ganesan , Associate Professor, Mech.
	Dr. C. P. Jawahar, Associate Professor, Mech.
	Dr. P. Sampaul, Professor, Mech.
	Dr. S. Antony Raja, Associate Professor, Mech.
	Dr. Philip Selvaraj, Assistant Professor, Mech.
	Dr. Rajkumar S Rai, Assistant Professor, Mech.
	Dr. G. Babu Rao, Assistant Professor, Mech.
Dr. A Brusly Solomon, Assistant Professor, Mech.	
Dr. Titus Thankachan, Assistant Professor, Mech.	
Mr. Jefferson Raja Bose, Assistant Professor, Mech.	
Special Invitees	Mr. Ligin George, Assistant Professor, Mech.
	Mr.P.Ram Kumar, Assistant Professor, Mech.
	Mr.A. Daniel, Assistant Professor, Mech.
Student Members	Mr. Franklin Sahayaraj PRK17ME5009, II M.Tech. (AMT)
	Mr.Jacob Basil Roy Paga UR16ME048, III B.Tech.

Opening Prayer: L. Godson Asirvatham.

The chairman of the committee welcomed all the members and introduced the agenda points. The following agenda points were discussed

1. Syllabus for B.Tech. Mechanical & Mechatronics Engineering Programme for 2018-19 batch.
2. Syllabus for M.Tech. Mechanical Engineering with specializations in Engineering Design, Thermal Engineering & Advanced Manufacturing Technology Programme for 2018-19 batch.
3. Any other matters.

i. The chairman of the committee presented ~~the new AICTE credit structure for B.Tech and M.Tech Programmes~~. He also presented the recommendations of the two member expert committee consisting of Dr.G.L.Samuel, Professor, Department of Mechanical Engineering, IIT Madras, Chennai. & Mr.Sunil Ganguly, Senior Manager (Design), Texmo Industries, CBE.

ii. After that the chairman of the committee requested Dr. G. Babu Rao to present the syllabus content for discussions.

After he discussions, the following suggestions and decisions are taken:

S.No	Subject name and Resolutions / Action Points
1	For the Engineering Drawing subject it is suggested to change the perspective sections as perspective projections in the course outcome five. And Dr. Siblu Clement and Dr. T.V. Christy suggested to move from manual drawing to computer based drawing, by minimizing or eliminating the manual drawing or the use of mini drafter.
2	For the Operation Research subject – it is suggested that, the word n job can be replaced with single and multiple jobs.
3	For thermodynamics subject it is suggested that the pure substance can be moved to second module of the course content.
4	It is suggested that, all the text books and reference books should be latest editions and at least one book should be written by a foreign author and also publishers name should be included.
5	For the Fluid Mechanics subject it is suggested that the following topics to be included: i. hydraulic turbines and pumps and ii. flow through pipes.
6	For the Fluid Mechanics Lab it is suggested that the following experiments should be included: i. Pumps – centrifugal, gear, reciprocating excises ii. Kaplan and Francis Turbine exercises if the facilities are available.
7	For the solid mechanics subject, it is suggested to include the theory of column instead of theory of failure.
8	For the Thermal Sciences and Fluid mechanics subject it is suggested to include the following: i. application of thermal machines, ii. Refrigeration & Air Conditioning. iii. Steam Turbines, with simple numerical problems.

	iii. Steam Turbines, with simple numerical problems.
9	For Advance Fluid Mechanics subject it is suggested to include the exact solution, Navier Stokes equations and experimental Techniques.
10	It is suggested for the subject 'Advance Mathematical methods in engineering' should be made compulsory for all PG Programmes in mechanical engineering.
11	For the vibration and acoustics subject it is suggested that the title for module 3 can be changed as numerical and computer methods in vibrations.
12	For the Engineering Materials and Applications subject it is suggested to include the following topics: <ul style="list-style-type: none"> i. Criteria for selection of materials, ii. ASTM standards, iii. Patented Steel wire - Steel martensitic - microalloyed steels- precipitation hardened aluminum alloys, iv. Maraging steels - HSLA steels, Dual phase steels, duplex stainless steels. TRIP Steels. v. Materials for energy production, transmission, saving and harvesting. vi. CNT, Graphite, Metallic glasses. Conducting polymers, Smart Gels and polymers.
13	For the subject Condition Based Monitoring it is suggested that the title should be vibration based monitoring for module five.
14	For the subject Advanced Metrology and Measurement Systems it is suggested to include uncertainty in measurements.
15	For Metallurgy lab the following experiments are suggested to be included: <ul style="list-style-type: none"> i. Study and use of metallurgical microscope ii. Measurement of hardness iii. Determination of compression strength and tensile strength iv. Examination of microstructure under Optical microscope. v. Measurement of grain size using Optical microscope. vi. Electrical Conductivity measurement.

- iii. The meeting ended with a closing prayer by Dr.Leo Dev Wins.
iv. The minutes of the meeting were prepared by Dr.Philip Selvaraj.



Dept. Academic Coordinator



Programe Coordinator/Mech








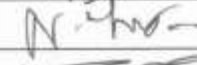

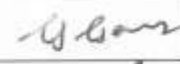

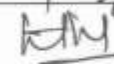
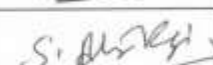
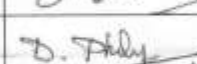

HoD/Mech





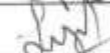
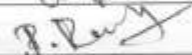

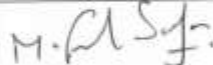

Encl: Syllabus copy.

Attendance Sheet

Board of Studies Meeting on 19th May 2019 @ 9 am.

Venue: Seminar Hall, Mechanical Engineering Department.

Members	Name	Signature
Chairman	Dr. L. Godson Asirvatham Professor, HoD of Department of Mechanical and Aerospace Engineering	
External Members	Dr. V. Sampath, Professor, Department of Metallurgical and Materials Engineering, IIT- Madras	
	Dr. Shibu Clement Associate Professor Birla Institute of Technology and Science - Goa Campus	
	Dr. Arnalt Stalin Senior Manager, Research and Product Development Air Quality Control System (AQCS), BHEL Ranipet, Vellore (District), Tamil Nadu, India	
Internal Members	Dr. K. Leo Dev Wins, Professor & Programme Coordinator	
	Dr. T.V. Christy, Professor	
	Dr. D.S. Robinson Smart, Professor	
	Dr. G. Ganesan, Associate Professor	
	Dr. C. P. Jawahar, Associate Professor	
	Dr. P. Sampaul, Professor	
	Dr. S. Antony Raja, Associate Professor	
	Dr. Philip Selvaraj, Assistant Professor	
	Dr. Rajakumar S Rai, Assistant Professor	

	Dr. G. Babu Rao, Assistant Professor & Academic Coordinator	
	Dr. A Brusly Solomon, Assistant Professor	
	Dr. Titus Thankachan, Assistant Professor	
	Mr. Jefferson Raja Bose, Assistant Professor	
Special Invitees	Mr. Lijin George, Assistant Professor	
	Mr. P.Ramkumar, Assistant Professor	
	Mr. E.Daniel, Assistant Professor	
Student Members	Mr. Franklin Sahayaraj PRK17ME5009, II M.Tech. (AMT)	
	Mr. Jacob Basil Roy Paga UR16ME048, III B.Tech. (Mech)	



Karunya INSTITUTE OF TECHNOLOGY AND SCIENCES

Declared as Deemed-to-be University under sec. 3 of UGC Act, 1956

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

Mechanical Engineering

Academic Year (2018 – 19) / Semester: December 2018 (EVEN.)

Minutes of the Board of Studies Meeting

Date: 8th December 2018 Time: 9.00 am Venue: Mechanical Seminar Hall

Members Present:

Chairman	Dr. L. Godson Asirvatham, HoD. – Dept. of Mechanical & Aerospace Engineering
External Members	Dr. V. Sampath, Professor, Department of Metallurgical and Materials Engineering, IIT- Madras
	Dr. Shibu Clement Associate Professor Birla Institute of Technology and Science - Goa Campus
	Dr. Arnalt Stalin Senior Manager, Research and Product Development Air Quality Control System (AQCS), BHEL Ranipet, Vellore (District), Tamil Nadu, India
Internal Members	Dr. K. Leo Dev Wins, Professor & Programme Coordinator Dr. T.V.Christy, Professor, Mech. Dr. D.S. Robinson Smart, Professor, Mech. Dr. G. Ganesan, Associate Professor, Mech. Dr. C. P. Jawahar, Associate Professor, Mech. Dr. P. Sampaul, Professor, Mech. Dr. S. Antony Raja, Associate Professor, Mech. Dr. Philip Selvaraj, Assistant Professor, Mech. Dr. Rajkumar S Rai, Assistant Professor, Mech. Dr. G. Babu Rao, Assistant Professor, Mech. Dr. A Brusly Solomon, Assistant Professor, Mech. Dr. Titus Thankachan, Assistant Professor, Mech. Mr. Jefferson Raja Bose, Assistant Professor, Mech.
Special Invitee	Mr. Kushal Singh, Research Associate, AMZ Automotive - Jaipur
Student Members	Mr. Jobel Jose PRK17ME6005, II M.Tech. (Thermal)
	Mr. Jacob Basil Roy Paga UR16ME048, III B.Tech.

Opening Prayer: L. Godson Asirvatham.

The chairman of the committee welcomed all the members and introduced the agenda points.

The following **agenda** points were discussed

1. Syllabus for Professional Elective & Open Elective Courses for B.Tech. 2018 batch of Mechanical & Mechatronics Engineering.
 2. Syllabus for AMZ courses to be included in the curriculum for the fourth coming batch -2019.
 3. Credits requirements for UG Lateral Entry students.
 4. Any other matters.
- i. The chairman requested Mr. Kushal Singh, Research associate, AMZ Automotive - Jaipur to explain about the skill development programme through AMZ Automotive P. Ltd., Jaipur, an Industrial Research Centre in the department of mechanical engineering.
- ii. After that the chairman of the committee requested Dr. G. Babu Rao to present the syllabus content for discussions and also four thrust area subject syllabus.
- iii. **After the discussions, the following suggestions and decisions are taken:**

Item No.	Points Discussed
1	Syllabus for Professional Elective & Open Elective Courses for 2018 Batch B.Tech. Mechanical & Mechatronics Engineering was reviewed and the comments were listed in Annexure-1.
2	Syllabus for the proposed (AMZ) laboratory courses were reviewed and each course will be given 0.5 credits . These courses are to be implemented for next 2019 batch students in the Course Curriculum Structure.
3	The Total number of Credits requirements for UG Lateral Entry students in order to award the B.Tech. Degree is 132 , which includes 11 credits of common core for B.Tech.
4	As our university has four thrust areas of Water, Food, Energy and Health areas, to cater these four unique subject syllabus were made for students as Open Course Electives. 18ME2080 Introduction to Food Process Engineering and Technology 18ME2081 Introduction to Modern Energy Technologies 18ME2082 Introduction to Water Technologies 18ME2083 Introduction to Health Care Science and Technology

iv. The meeting ended with a closing prayer by Dr. Leo Dev Wins.

v. The minutes of the meeting were prepared by Dr. Brucely Solomon


Dept. Academic Coordinator


HoD/Mech




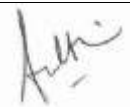

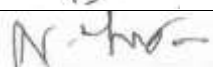
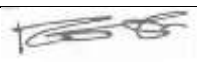
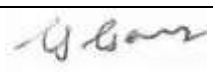
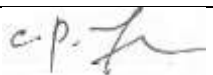
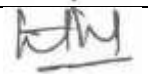
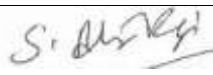
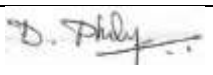
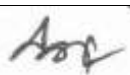
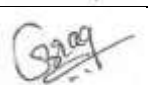
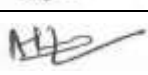

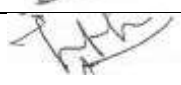

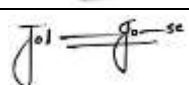
Encl:

1. Annexure-1
2. Syllabus copy.

Attendance Sheet

Board of Studies Meeting on 8th December 2018 @ 9 am.

Venue: Seminar Hall, Mechanical Engineering Department.

Members	Name	Signature
Chairman	Dr. L. Godson Asirvatham Professor, HoD of Department of Mechanical Engineering	
External Members	Dr. V. Sampath , Professor, Department of Metallurgical and Materials Engineering, IIT- Madras	
	Dr. Shibu Clement , Associate Professor, Birla Institute of Technology and Science - Goa Campus	
	Dr. Arnalt Stalin Senior Manager, Research and Product Development, Air Quality Control System (AQCS), BHEL Ranipet, Vellore (District), Tamil Nadu, India	
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	Dr. C. P. Jawahar, Associate Professor	
	Dr. P. Sampaul, Professor	
	Dr. S. Antony Raja, Associate Professor	
	Dr. Philip Selvaraj, Assistant Professor	
	Dr. Rajkumar Rai, Assistant Professor	
	Dr. G. Babu Rao, Assistant Professor Department Academic Coordinator	
	Dr. A Brusly Solomon, Assistant Professor	
	Dr. Titus Thankachan, Assistant Professor	
	Mr. Jefferson Raja Bose, Assistant Professor	
Special Invitees	Mr. Khushal Singh, Research Associate, AMZ Automotive	
Student Members	Mr. Jobel Jose, PRK17ME60059, II M.Tech. (Thermal)	
	Mr. Jacob Basil Roy Paga UR16ME048, III B.Tech.	