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2.6.2: Attainment of Programme outcomes and Program Specific outcomes are evaluated by the institution.

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DEPARTMENT OF MECHATRONICS ENGINEERING

MAPPING OF POs AND PSOs FOR 2018-22 BATCH

Mapping weights 1: Low 2: Medium 3: High

PO PSO ATTAINMENT

Course s	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C101	0.91	0.83							0.45		0.45	0.45
C102	1.72	1.72	2.58	0.86	2.15	1.72	2.58				2.58	
C103	0.49	0.49	0.28	0.26	0.26							0.35
C104	2.3	0.77	0.77	0.77		1.53	0.77	0.77				
C105	2.88	2.88	2.88	2.64	2.88	2.4	2.4	2.64	2.16	2.64	2.88	2.4
C106	2.33	1.55	1.55	1.55	1.55	1.94	1.17	1.17	1.17	1.55	1.03	
C107	2.95		2.95	1.97	1.97	1.97			1.97			



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A CENTRE OF EXCELLENCE IN SCIENCE AND TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

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C108	2.32	2.32	1.54	0.77	0.77	1.54	2.32	1.54	2.06	0.77	2.32	0.77
C109	2.59	0.86	0.86		0.86				2.16	0.86		1.73
C110	1.31	1.31	0.87	0.66				0.66				0.66
C111	1.38	0.92							0.46			0.46
C112	1.95	1.95	0.98	1.95	2.44	1.95	2.93		1.95	2.93		1.95
C113	2.44	2.17	1.63	1.22	1.63	0.81		1.22		2.03		1.63
C114			1.57		1.57	2.36	1.83	1.57	2.36			
C115	2.34	2.48		0.83								
C116	2.85				1.9				1.9			0.95
C117	0.99				0.99	0.99		1.97	1.97	1.97		
C118	1.84	1.29	1.11	1.47		1.84	0.74	0.74			0.74	0.74



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C201	0.59	0.59	0.4						0.32			0.32
C202	0.9	1.81	1.81	1.81								
Course s	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C203	1.75	1.57	1.53	0.87					1.75		0.87	1.16
C204	2.44	1.74	1.57	1.57	2.26		1.39		1.39	1.22	1.57	1.22
C205	1.5	1.5	1.29	1.4	1.5	1.5	1.4	1.29	1.5	1.5	1.07	1.5
C206	0.82	0.9	0.9	0.68	0.9	0.68	0.68	0.68	1.02	0.68	0.68	
C207	2.14	1.22	0.97	2.73					0.97		0.97	0.97
C208	2.96	2.22	1.97	1.65	0.99	1.65	1.23	1.23	0.99	1.38	1.97	0.99
C209	1.45	1.33	0.73									0.73
C210	2.68	2.14	1.79	2.68	2.68	1.79	1.79	2.14	1.79	1.43	2.01	2.68



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C211	2.87	1.6	1.91	0.96	1.6	0.96	2.87	0.96	0.96	0.96	0.96	0.96
C212	2.9	1.93	2.13	2.9	2.9							1.93
C213	1.99	1.99	1.32	2.31	0.99	1.49	1.99	1.99	2.31	1.99	1.82	1.39
C214	2.83	1.58	1.89	0.94	1.58	0.94	2.83	0.94	0.94	0.94	0.94	0.94
C215	2.75	2.75	2.75	2.29		2.75	2.29					2.75
C216	2.95	1.97	2.95	2.95					2.95			
C301	2.03	1.9	2.33	2.18	1.53							1.16
C302	2.56	2.05	2.28	2.56	1.71	1.71	1.71	2.56		2.13		2.56
C303	2.78	2.01	2.01	2.78	2.78	1.85			2.78	2.78		2.78
C304	2.94	2.35	2.62	2.94	1.96	1.96	1.96	2.94		2.45		2.94
C305	1.93	1.93	1.93		1.93							



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C306	2.96	2.79	2.79	2.63	2.96	0.99			2.96			2.96
C307	1.57	1.7	1.43	2.22	1.31	1.43	1.57	1.18	0.92	0.78	0.78	1.43
C308	1.3	1.47	1.64	1.96	1.96	1.96	0.98	1.47	1.96	1.96	1.72	2.94
C309	2.95	2.46	2.46	2.46					2.95		2.46	2.95
Courses	PO 1	PO 2	PO 3	PO 4	PO 5	PO 6	PO 7	PO 8	PO 9	PO1 0	PO1 1	PO1 2
C310	2.93	2.44	2.44	2.44					2.93		2.44	2.93
C311	2.32	1.35	1.93									
C312	2.67	2.52	1.78	1.78	1.78							
C313	2.61	2.61	1.22									
C314	2.67	2.52	1.78	1.78	1.78							
C315	2.32	1.35	1.93									



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C316	2.51		1.93				1.93				2.58	
C317	2.44		1.93				1.88				2.51	
C318	2.74	2.74	2.74	2.74		2.74	2.74	2.74	2.74	2.74	2.74	2.74
C319	2.81	2.34	2.34	2.34	2.81				2.81		2.34	2.81
C320	2.76	2.76	2.76	2.76		2.76	2.76	2.76	2.76	2.76	2.76	2.76
C401	1.81	1.99	1.81	1.81	2.49	1.81						
C402	1.87	1.73	1.58	1.55	1.73						0.86	1.3
C403	2.69	2.09	1.64									1.79
C404	2.34	1.58	2.04		2.63							
C405	2.69	2.69	2.69	2.09	1.79							1.64
C406	2.22	2.22	2.41	1.67	2.04	1.48	1.85	2.22	2.04	2.04	2.22	1.85



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C407	2.83	1.97	2.13	1.97	1.97	1.97			1.97	1.97	2.46	2.46
C408	2.79	2.79	2.79	2.79		2.79	2.79	2.79	2.79	2.79	2.79	2.79
C409	0.85	1.7	0.85	0.85	0.85	1.7	0.85		0.85	0.85	1.7	0.85
C410	2.63	1.78	2.3		2.96							
C411	2.46	1.85	2.77	2.62	2.77	2.77	1.85	2.77	2.77	2.31	1.69	2.77
C412	2.5	2.33	2.67	2.67	2	3	3	2	2.5	2.5	3	1

EVALUATION OF PO ATTAINMENT VALUES

	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
CO Attainment	2.28	2	1.98	2	1.98	1.9	1.97	1.83	1.99	2	1.93	1.86
Direct Attainment	2.22	1.87	1.86	1.88	1.86	1.82	1.9	1.73	1.87	1.82	1.81	1.71
InDirect Attainment	2.5	2.53	2.44	2.48	2.48	2.21	2.25	2.23	2.45	2.7	2.4	2.44
Average	2.33	2.13	2.09	2.12	2.11	1.98	2.04	1.93	2.10	2.17	2.05	2.00



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EVALUATION OF PSO ATTAINMENT VALUES

	PSO1	PSO2
CO Attainment	2.06	1.95
Direct Attainment	1.97	1.82
InDirect Attainment	2.41	2.48

PO IMPROVEMENT ACTION PLAN

<p>PO1: Engineering knowledge: Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.</p>
<p>Action 1: Bridge course will be offered for reinforcing their knowledge about engineering fundamentals.</p> <p>Action 2: Depending on the result of assessment extra classes to be conducted to improve fundamentals of engineering concepts.</p>
<p>PO2. Problem analysis: Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.</p>
<p>Action 1: Target level shall be increased.</p> <p>Action 2: Application oriented problems will be offered to improve logical thinking.</p> <p>Action 3: Mathematical contents are incorporated to improve the system modelling ability of the students.</p>
<p>PO3. 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.</p>



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<p>Action 2: Training on aptitude and logical reasoning should be added.</p> <p>Action 3: The students will be given projects by considering the overall socio cultural and environmental issues.</p>
<p>PO4: 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.</p>
<p>Action 1: Target level shall be increased</p> <p>Action 2: Academic workshops are coming into picture to apply more knowledge in terms of conduction of experiments and analysis of results at required level.</p>
<p>PO5: 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.</p>
<p>Action 1: Target level shall be increased</p> <p>Action 2: Modern labs were developed to learn/ demonstrate the use of Modern software tools like MATLAB, AutoCAD, specify fulfilment of requirements in engineering applications in the new industrial era.</p> <p>Action 3: Organized internship program for the students.</p>
<p>PO6: 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.</p>
<p>Action 1: Target level shall be increased</p> <p>Action 2: Students were motivated to take a part in various social events such as Blood donation camp, Clean India Campaign.</p> <p>Action 3: Students follow laboratory safety instructions while performing the practical's.</p>
<p>PO7: 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.</p>
<p>Action 1: Target level shall be increased</p>



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<p>Action 2: Students were motivated to participate more in social activities and environmental awareness programmes.</p> <p>Action 3: Students participated in social activities like tree plantation and Swachh BharatAbhiyan organized by NSS.</p>
<p>PO8: Ethics: Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.</p>
<p>Action 1: Target level shall be increased</p> <p>Action 2: Students were motivated to give more emphasis on professional ethics.</p>
<p>PO9 : Individual and team work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.</p>
<p>Action 1: Target level shall be increased</p> <p>Action 2: Students were made aware of Association activities and clubs where the students learn to work both as individuals and in a team work environment.</p> <p>Action 3: Technical events like Tharang were organized to enhance the leadership qualities as well as to make them work in a team.</p>
<p>PO10: 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.</p>
<p>Action 1: Target level shall be increased</p> <p>Action 2: Students are encouraged to participate in class room presentations.</p>
<p>PO11: 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.</p>
<p>Action 1: Target level shall be increased</p> <p>Action 2: Students were encouraged to handle financial management during Technical & Non – Technical Festivals.</p>



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Action 3: The awareness is created among the students regarding the management principles and managing projects.
PO12: 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.
Action 1: Target level shall be increased. Action 2: Students were motivated to enroll for higher studies. Action 3: The students were involved in the activities of the alumni association and are encouraged to take membership of the Association at the time of passing out.

PSO IMPROVEMENT ACTION PLAN

PSO 1: Professional skills: Associate the concepts related to electrical, electronics, Mechanical, Robotics, Control and Instrumentation to solve the challenges of modern industries.
Action 1: Target level shall be increased. Action 2: Students were motivated to take up real life problems during their project work so that they can design, Analyse and find solutions which gives exposure to the latest technologies. Action 3: Conduct technical talks to build professional skills related to the programme.
PSO 2: Problem solving ability: Analyse and design systems with modern tools for the benefit of the society.
Action 1: Target level shall be increased. Action 2: Students were motivated to do design and analyse projects using modern tools.





PO and PSO assessment tools

Contribution of various activities to POs and PSOs

Sl. No.	Co/Extra-curricular Activities	Poor (1)	Satisfactory (2)	Good (3)
1	Guest Lecturers (Co-Curricular)	Program organizes 1-4 lectures	Program Organizes 5-10 Lecturers	Program Organizes 10 or more Guest Lecturers
2	Add-on Courses (Co-Curricular)	Program organized 1 Add-on Program	Program organized 2 Add-on Program	Program organized 3 or More Add-on Program
3	Projects Exhibition (Co-Curricular)	No Project Exhibitions	Every Year	Every Semester
4	Paper Presentations (Co-Curricular)	Nil	Every Year	Every Semester
5	NSS Activities (Extra-Curricular)	Less than 15% Program Students' Participate	16-30% Students Participate	Above 30% Students' Participate
6	Program on Environment/ Sustainability Organized (Co-Curricular)	Nil	1-2 Programs	More Programs
7	Programs on Ethics (Co-Curricular)	1 Program	2-3 Programs	More Programs
8	Library, Internet Hours (Co-Curricular)	Nil	Lib or Internet	Both



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9	Students' Seminar & English Communication Hours (Co-Curricular)	Nil	Either	Both
10	Entrepreneurships - Lecturers (Co-Curricular)	Nil	1-2 Lecturers	More Lecturers
11	Students' Qualification in English Communication/Certification (Co-Curricular)	Nil	15%-30% Students	Above 30% Students
12	Programs on Health or Course on Human Anatomy	Nil	1-2 Programs	More Programs
13	Programs on Safety Engineering	Nil	1-2 Programs	More Programs
14	Students' Participation in Cultural Events, Activities	10-55%	16%-30%	31% & <u>Above</u>
15	Sports/ Extra-Curricular	Less than 15% Program Students' Participate	10%-20%	21% & <u>Above</u>
16	Students' Internships in Industries	Less than 15% Program Students' Participate	16-30% Students Participate	Above 30% Students' Participate
17	MOOC/NPTEL	Less than 20% Program Students' Participate	20-30% Students Participate	Above 30% Students' Participate



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MAPPING OF EXTRA/CO CURRICULAR ACTIVITIES TO POs AND PSOs

Sl. No.	Co/Extra-curricular Activities	P	P	P	P	P	P	P	P	P	P	P	P	P			
		O	O	O	O	O	O	O	O	O	O	O	O	O			
		1	2	3	4	5	6	7	8	9	0	1	1	1	1	1	2
1	Guest Lecturers (Co-Curricular)	√	√	√	√	√	√								√	√	√
2	Add-on Courses (Co-Curricular)	√	√	√	√	√				√					√	√	√
3	Projects Exhibition (Co-Curricular)	√	√	√	√					√	√				√	√	√
4	Paper Presentations (Co-Curricular)	√	√	√	√					√	√				√	√	√
5	NSS Activities (Extra-Curricular)						√	√	√	√							
6	Program on Environment/ Sustainability Organized (Co-Curricular)							√									
7	Programs on Ethics (Co-Curricular)								√								√
8	Library, Internet Hours (Co-Curricular)	√	√	√	√										√	√	√
9	Students' Seminar & English Communication Hours (Co-Curricular)	√	√								√	√			√	√	√
10	Entrepreneurships – Lecturers (Co-Curricular)												√				√
11	Students' Qualification in English Communication/Certification (Co-Curricular)								√	√							
12	Programs on Health or Course on Human Anatomy		√				√										√
13	Programs on Safety Engineering						√										√
14	Students' Participation in Cultural Events, Activities									√							
15	Sports/ Extra-Curricular									√							
16	Students' Internships in Industries/Projects	√	√	√	√	√	√	√	√	√					√	√	√
17	MOOC / NPTEL	√	√	√	√										√	√	√



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DEPARTMENT OF MECHATRONICS

EXIT FEEDBACK

Name: ASTIN K SEBY

Reg No: JEC18MC011

Batch: 2018 - 2022

Assessment of Program Outcomes (PO's)

#	Parameter for Evaluation	Feedback
1	Knowledge in mathematics, science, engineering and humanities and their application.	Excellent
2	Ability to identify, formulate, analyze and solve complex engineering problems.	Excellent
3	Confidence level to design and develop solutions for complex engineering problems that meet the specified needs for the public health and safety, and the cultural, societal, and environmental considerations	Excellent
4	Potential to use research-based knowledge and research methods for conducting investigations of complex problems.	Excellent
5	Ability to Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools with an understanding of the limitations to solve contemporary and new problems.	Excellent
6	Awareness to apply engineering solutions in global, national, and societal contexts with the understanding of responsibilities relevant to the professional engineering practice.	Excellent
7	Knowledge of professional engineering solutions in societal and environmental contexts for sustainable development.	Excellent
8	Understanding of professional and ethical responsibilities.	Excellent
9	Ability to function as an effective member in multi-disciplinary teams.	Excellent
10	Proficiency in English language in both communicative and technical forms.	Excellent
11	Ability to choose and apply appropriate resource and finance management techniques.	Excellent
12	Capability of self-education and a clear understanding of the value of updating professional knowledge to engage in life-long learning.	Excellent

Assessment of Program Specific Outcomes (PSO's)

#	Parameter for Evaluation	Feedback
1	Ability to associate the concepts related to electrical, electronics, Mechanical, Robotics, Control and Instrumentation to solve the challenges of modern industries.	Excellent
2	Ability to analyze and design systems with modern tools for the benefit of the society.	Excellent



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A CENTRE OF EXCELLENCE IN SCIENCE AND TECHNOLOGY BY THE CATHOLIC ARCHDIOCESE OF TRICHUR

JYOTHI HILLS, VETIKATTIRI P.O., CHERUTHURUTHY, THRISSUR, 679531 | Ph. +91 4884 259000 | info@jecc.ac.in | www.jecc.ac.in



*NBA reaccredited B.Tech Programmes in Civil Engineering, Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering and Mechanical Engineering valid till 2025



Jyothi Engineering College

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JYOTHI HILLS, VETIKATTIRI P.O., CHERUTHURUTHY, THRISSUR, PIN-679531 PH : +91- 4884-259000, 274423 FAX : 04884-274777

NBA accredited B.Tech Programmes in Computer Science & Engineering, Electronics & Communication Engineering, Electrical & Electronics Engineering and Mechanical Engineering valid for the academic years 2016-2022. NBA accredited B.Tech Programme in Civil Engineering valid for the academic years 2019-2022.



DEPARTMENT OF MECHANICAL ENGINEERING(A)

ALUMNI FEEDBACK

Name : JERIN JACOB

Date: 15-09-2022

Batch : 2017 - 2021

Sector: Public

Organization : private

Designation : SUPERVISOR

Address : JACOD HOME

Email : JERIN.me17@jecc.ac.in

Phone: 625874139

Assessment of Knowledge, Skills, Abilities, Attitude and Attributes acquired

#	Parameter for Evaluation	Feedback
1	Knowledge in mathematics, science, engineering and humanities and their application.	Extremely Satisfied
2	Ability to identify, formulate, analyze and solve complex engineering problems.	Satisfied
3	Confidence level to design and develop solutions for complex engineering problems that meet the specified needs for the public health and safety, and the cultural, societal, and environmental considerations	Extremely Satisfied
4	Potential to use research-based knowledge and research methods for conducting investigations of complex problems.	Extremely Satisfied
5	Ability to Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools with an understanding of the limitations to solve contemporary and new problems.	Extremely Satisfied
6	Awareness to apply engineering solutions in global, national, and societal contexts with the understanding of responsibilities relevant to the professional engineering practice.	Extremely Satisfied
7	Knowledge of professional engineering solutions in societal and environmental contexts for sustainable development.	Extremely Satisfied
8	Understanding of professional and ethical responsibilities.	Extremely Satisfied
9	Ability to function as an effective member in multi-disciplinary teams.	Extremely Satisfied
10	Proficiency in English language in both communicative and technical forms.	Extremely Satisfied
11	Ability to choose and apply appropriate resource and finance management techniques.	Extremely Satisfied
12	Capability of self-education and a clear understanding of the value of updating professional knowledge to engage in life-long learning.	Extremely Satisfied
13	Ability to apply knowledge in the domains of manufacturing, fluid and thermal sciences to solve engineering problems	Extremely Satisfied
14	Ability to apply the principles of design and analysis on product design with the help of modern CAD/CAM tools.	Extremely Satisfied



J. Jose
Dr. JOSE P THERATTIL
Principal
Jyothi Engineering College
Cheruthuruthy - 679531



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DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING

EMPLOYER FEEDBACK

Organization Name : GETEM Engineering Private Limited
 Feedback entered by : Raison Mukkath
 Designation : Manager - Execution & Planning
 Email : raison@sarmep.com
 Phone No : +919744228653

Date: 21-Sep-2022

Feedback Form

#	Overall, are you Satisfied with:	Feedback
1	Capacity for development and analysis of engineering problems and formulation of appropriate solutions, retaining professional and ethical responsibilities.	Extremely Satisfied
2	Aptitude for self-education, ability to learn new skills and a clear appreciation for the value of lifelong learning to update professional knowledge.	Extremely Satisfied
3	Understanding professional engineering solutions for sustainable development and their application in global, national and societal contexts.	Extremely Satisfied
4	Competence for acquiring new skills and applying them in research and development	Extremely Satisfied
5	Fundamental knowledge in mathematics and science and professional fluency in English both communicative and technical forms.	Satisfied
6	Expertise in differentiation of management techniques and possession of leadership skills that enable successful function of multi-disciplinary teams.	Satisfied

Comments/Suggestions

No suggestions/comments has been recorded by the employer.

POs	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
Qs	Q1	Q1	Q1	Q2	Q2,Q3	Q3	Q3	Q4	Q4	Q5	Q6	Q6

PSOs	PSO1	PSO2	PSO3
Qs	Q2,Q3,Q5	Q1,Q2,Q3,Q4	Q1,Q3,Q5,Q6



Jyothi
 Dr. JOSE P THERATTIL
 Principal
 Jyothi Engineering College
 Cheruthuruthy - 679531