

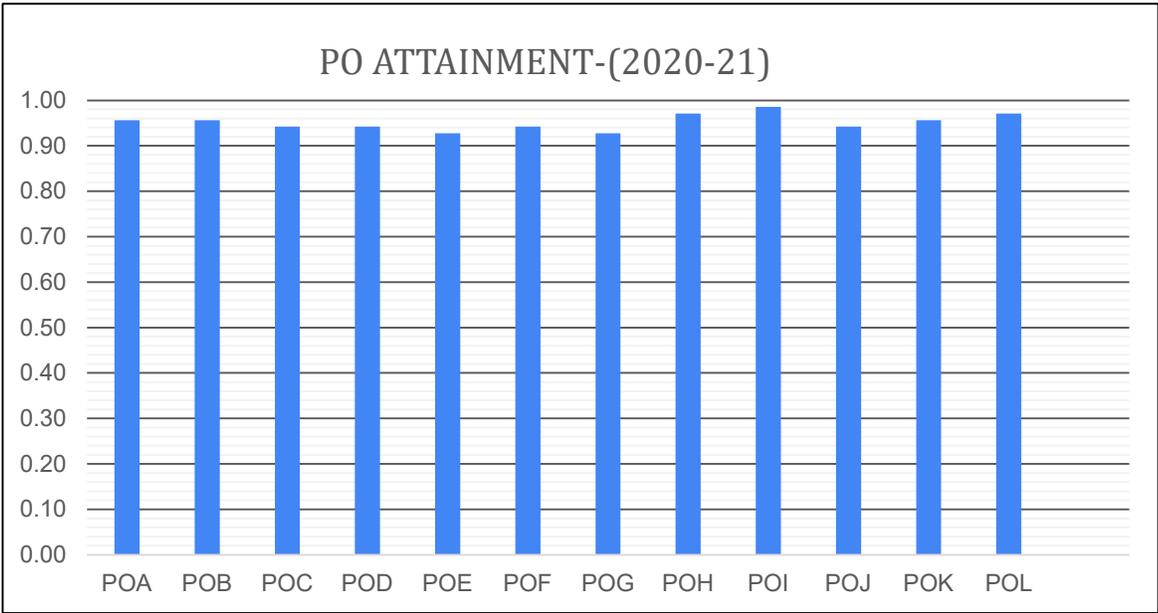
DEPARTMENT OF COMPUTER ENGINEERING

GRADUATE EXIT SURVEY - 2020-2021

	Not At All	2	Mode rately	4	Extre mely	Above Thres hold	Total Answ red	PO Attain ment	Level Attain ment
1.Do you feel you have acquired enough engineering knowledge to enable you to in an industry.	1	2	21	29	16	66	69	0.96	3
2. Do you think the program is affective in developing analytical and problem solving skills.	0	3	19	29	18	66	69	0.96	3
3.Have you acquired the potential to independently develop a solution for practical problem in discipline.	1	3	15	32	18	65	69	0.94	3
4.Are you in a position to solve a complex problem in your domain.	1	3	18	30	17	65	69	0.94	3
5.Have you used any modern tool / technology beyond curriculum (Projects, Seminars, in plant training, internships).	0	5	16	20	28	64	69	0.93	3
6.Are you in apposition to fulfill your social responsible as an engineer (like problems of community, water distribution, air pollution, computer literacy)	1	3	14	30	21	65	69	0.94	3
7.Are you able to develop a product / system which is environment friendly and green.	1	4	24	22	18	64	69	0.93	3
8.Are you aware of ethical valves required for your profession.	0	2	18	21	28	67	69	0.97	3
9.Are you comfortable working as a part of your project team.	0	1	13	26	29	68	69	0.99	3
10.How strong you are in your oral communication?	1	3	14	25	26	65	69	0.94	3
11.Are you able to work as a member and leader in a team, to manage projects and in multidisciplinary environments.	0	3	17	27	22	66	69	0.96	3
12.Are you eager to learn new technologies and explore new opportunities?	1	1	11	16	40	67	69	0.97	3
PSO									
PSO1:Are you self sufficient in applying fundamental computer science knowledge to address real world challenges/opportunities.	10	0	29	30	0	59	69	0.86	3
PSO2: Do you Design and implement computing systems of varying complexity in multidisciplinary scenarios that meet specified requirements with appropriate consideration relating to the following aspects: Architecture,Algorithm,Security	22	13	13	0	21	34	69	0.49	1

PO	PO ATTAINMENT
POA	0.96
POB	0.96
POC	0.94
POD	0.94
POE	0.93
POF	0.94
POG	0.93
POH	0.97
POI	0.99
POJ	0.94
POK	0.96
POL	0.97

TARGET LEVEL ATTAINMENT			
Graduate Exit Survey	low(1)	moderate(2)	Substantial(3)
	>41 to <60	61-75	>75



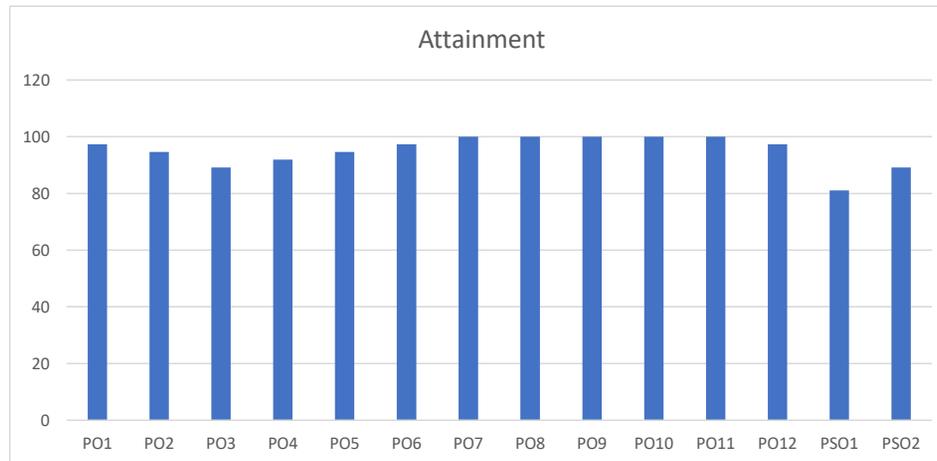
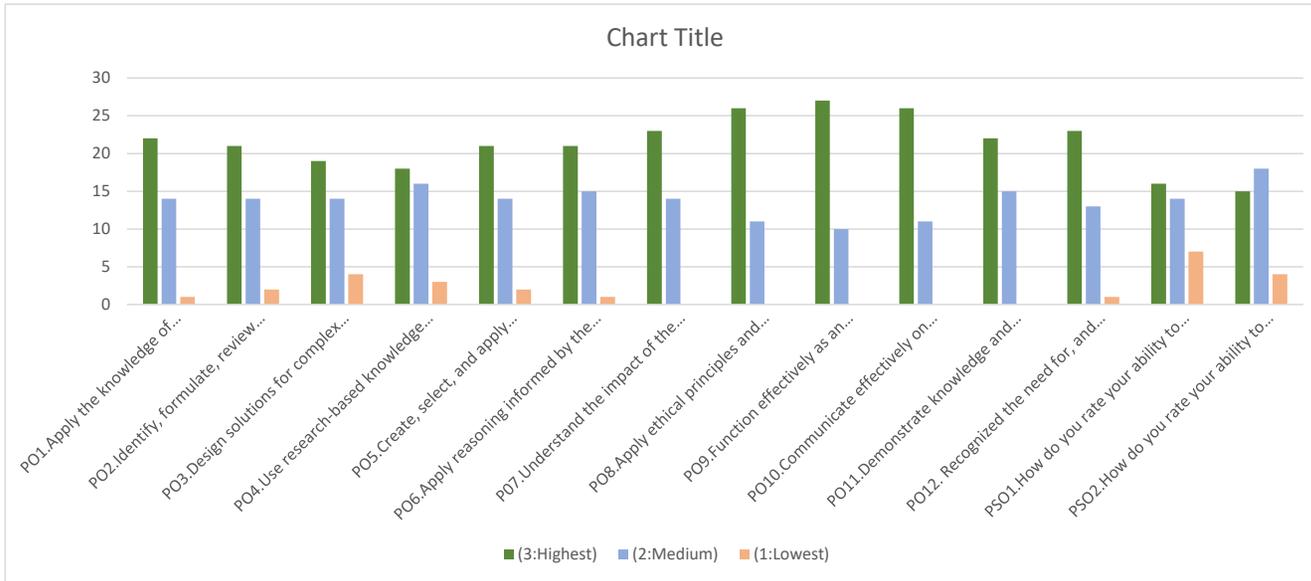
Graduate Exit Survey
and
Alumni Survey
Department Of
Electronics Engineering
2020-21

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ELECTRONICS DEPARTMENT - ALUMNI Survey - 2020-2021

Topic: How do you rate your ability to:	(3: Highest)	(2: Medium)	(1: Lowest)	No. Of Participant s	% Response for 3 Highest	%Response for 2 Medium	% Response for 1 Lowest	Attainment
PO1. Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	22	14	1	37	59.45945946	37.83783784	2.702702703	97.2972973
PO2. Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of	21	14	2	37	56.75675676	37.83783784	5.405405405	94.59459459
PO3. Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations	19	14	4	37	51.35135135	37.83783784	10.81081081	89.18918919
PO4. 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	18	16	3	37	48.64864865	43.24324324	8.108108108	91.89189189
PO5. Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling of complex engineering activities with an understanding of the limitations	21	14	2	37	56.75675676	37.83783784	5.405405405	94.59459459
PO6. 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.	21	15	1	37	56.75675676	40.54054054	2.702702703	97.2972973
PO7. Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and the need for sustainable development	23	14	0	37	62.16216216	37.83783784	0	100
PO8. Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	26	11	0	37	70.27027027	29.72972973	0	100
PO9. Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	27	10	0	37	72.97297297	27.02702703	0	100
PO10. 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	26	11	0	37	70.27027027	29.72972973	0	100
PO11. Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments	22	15	0	37	59.45945946	40.54054054	0	100
PO12. Recognized the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	23	13	1	37	62.16216216	35.13513514	2.702702703	97.2972973
PSO1. How do you rate your ability to provide optimal solutions for real-life problems based on the knowledge acquired in the field of Automation, Embedded	16	14	7	37	43.24324324	37.83783784	18.91891892	81.08108108
PSO2. How do you rate your ability to test and debug hardware and software for Electronic Systems.	15	18	4	37	40.54054054	48.64864865	10.81081081	89.18918919



PO	Attainment
PO1	97.297297
PO2	94.594595
PO3	89.189189
PO4	91.891892
PO5	94.594595
PO6	97.297297
PO7	100
PO8	100
PO9	100
PO10	100
PO11	100
PO12	97.297297
PSO1	81.081081
PSO2	89.189189

Graduate Exit Survey and Alumni Survey
DEPARTMENT OF PRODUCTION & MECHANICAL
ENGINEERING

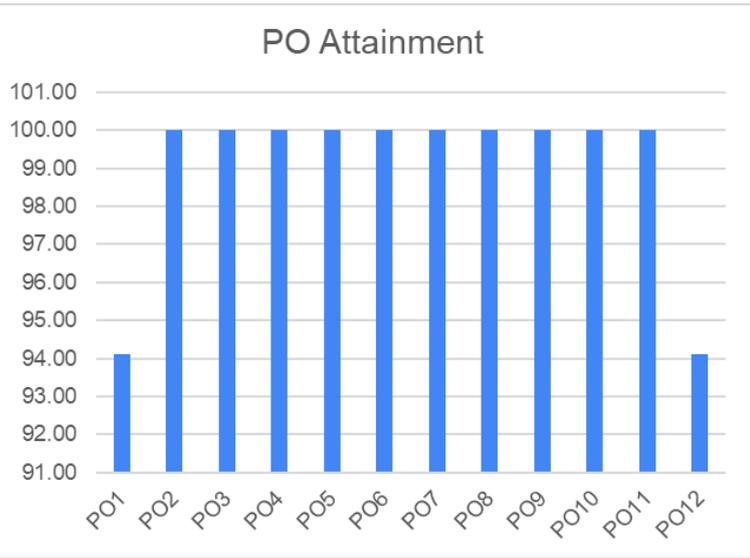
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Graduate Exit Survey 2020-21

PO#	Graduate Attributes	To very high extent	To reasonably high extent	To reasonable extent	To limited extent	To some extent	Total Responses	Number of responses above target	Percentage of Responses above target	PO Attainment (on 3 point Scale)
PO1	I can apply principles of Science and Mathematics to solve problems in production engineering domain	7	7	2	1	0	17	16	94.12	3
PO2	I can sufficiently contribute to identify, formulate and solve engineering problems in Industry	6	8	3	0	0	17	17	100	3
PO3	I can sufficiently contribute to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.	7	8	2	0	0	17	17	100	3
PO4	I can design and conduct experiments, as well as analyze and interpret data	6	9	2	0	0	17	17	100	3
PO5	I can effectively use techniques, skills, and modern engineering tools necessary for engineering practice	8	8	1	0	0	17	17	100	3
PO6	I can understand the impact of engineering solutions in a global, economic, environmental and societal context	6	9	2	0	0	17	17	100	3
PO7	This course provided ability to participate in technical and professional societies for professional growth	6	8	3	0	0	17	17	100	3
PO8	I will follow professional and ethical responsibilities	8	9	0	0	0	17	17	100	3
PO9	This course helped me to function on multi-disciplinary teams	8	6	3	0	0	17	17	100	3
PO10	I can communicate effectively by oral presentations and prepare documents/Technical reports	7	10	0	0	0	17	17	100	3
PO11	I am confident to apply principles of management, Finance and Economics to my own work and as a leader in a team.	7	7	3	0	0	17	17	100	3
PO12	I recognize the need for life-long learning and pursuing higher studies.	6	9	1	1	0	17	16	94.12	3
PSO1	I can sufficiently contribute to identify, formulate and solve engineering problems in Industry And I can design and conduct experiments, as well as analyze and interpret data	7	8	2	0	0	17	15	88.24	3
PSO2	I can effectively use techniques, skills, and modern engineering tools necessary for engineering practice And This program helped me to use modern tools effectively in order to solve real life manufacturing problems	7	8	1	1	0	17	15	88.24	3

PO#	PO Attainment
PO1	94.12
PO2	100
PO3	100
PO4	100
PO5	100
PO6	100
PO7	100
PO8	100
PO9	100
PO10	100
PO11	100
PO12	94.12

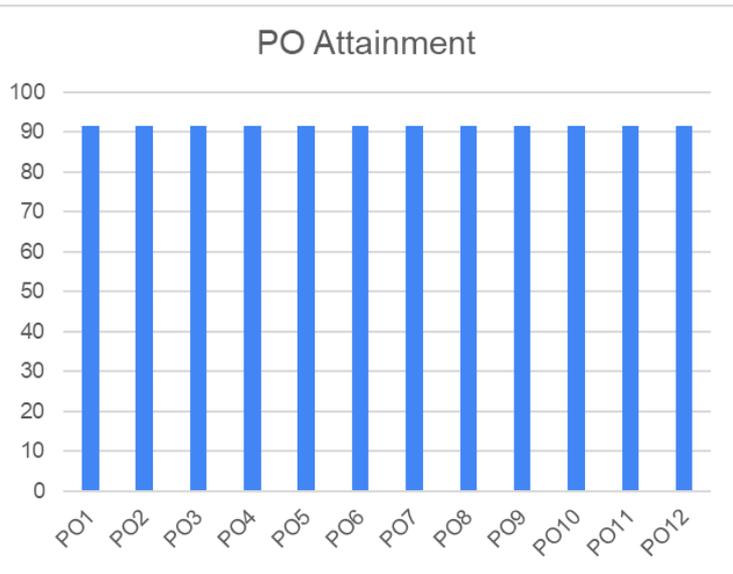


Target level Attainment			
	low(1)	Moderate(2)	Substantial(3)
Graduate Exit Survey	60- 70	70-80	80 above

Alumni Survey 2020-21

Sr.No	PO#	Graduate Atributes	Substan- tial Improve- ment	Some Improve- ment	No Effect	Total Respon- ses	Number of respon- ses above target	Percentag- e of Respon- ses above target	PO Attainme- nt (on 3 point Scale)
1	PO1	I can apply principles of Science and Mathematics to solve problems in production engineering domain	8	3	1	12	11	91.67	3
2	PO2	I can sufficiently contribute to identify, formulate and solve engineering problems in Industry	6	5	1	12	11	91.67	3
3	PO3	I can sufficiently contribute to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability and sustainability.	8	3	1	12	11	91.67	3
4	PO4	I can design and conduct experiments, as well as analyze and interpret data	6	5	1	12	11	91.67	3
5	PO5	I can effectively use techniques, skills, and modern engineering tools necessary for engineering practice	6	5	1	12	11	91.67	3
6	PO6	I can understand the impact of engineering solutions in a global, economic, environmental and societal context	6	5	1	12	11	91.67	3
7	PO7	This course provided ability to participate in technical and professional societies for professional growth	8	3	1	12	11	91.67	3
8	PO8	I will follow professional and ethical responsibilities	7	4	1	12	11	91.67	3
9	PO9	This course helped me to function on multi-disciplinary teams	6	5	1	12	11	91.67	3
10	PO10	I can communicate effectively by oral presentations and prepare documents/Technical reports	8	3	1	12	11	91.67	3
11	PO11	I am confident to apply principles of management, Finance and Economics to my own work and as a leader in a team.	7	4	1	12	11	91.67	3
12	PO12	I recognize the need for life-long learning and pursuing higher studies.	6	5	1	12	11	91.67	3
13	PSO1	I can sufficiently contribute to identify, formulate and solve engineering problems in Industry And I can design and conduct experiments, as well as analyze and interpret data	7	4	1	12	11	91.67	3
14	PSO2	I can effectively use techniques, skills, and modern engineering tools necessary for engineering practice And This program helped me to use modern tools effectively in order to solve real life manufacturing problems	6	5	1	12	11	91.67	3

PO#	PO Attainment
PO1	91.67
PO2	91.67
PO3	91.67
PO4	91.67
PO5	91.67
PO6	91.67
PO7	91.67
PO8	91.67
PO9	91.67
PO10	91.67
PO11	91.67
PO12	91.67



Target level Attainment			
	low(1)	Moderate(2)	Substantial(3)
Graduate Exit Survey	60- 70	70-80	80 above

Graduate Exit Survey and Alumni Survey
Information Technology Department
2020-21

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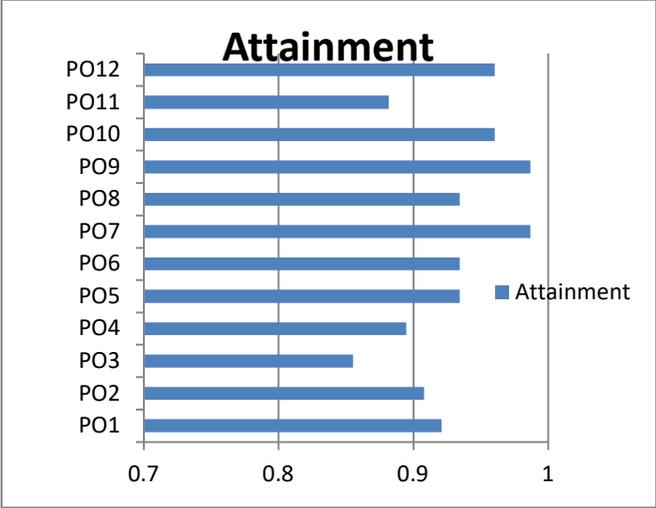
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FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING
FR. AGNEL ASHRAM, BANDSTAND, BANDRA (W), MUMBAI,
Department of Information Technology
(Graduate Exit Survey 2020-21)

I can apply principles of Science and Mathematics and Engineering fundamentals to problems in IT domain (P1)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	35	35	6	0	0
	0.460526316	0.460526316	0.078947368	0	0
I am able to analyze complex engineering problems(P2)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	31	38	7	0	0
	0.407894737	0.5	0.092105263	0	0
I am able to design solutions considering public health and safety, and cultural, societal and environmental considerations.(P3)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	33	32	11	0	0
	0.434210526	0.421052632	0.144736842	0	0
I am able to apply research based knowledge and methods to infer valid conclusions.(P4)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	35	33	8	0	0
	0.460526316	0.434210526	0.105263158	0	0
I am capable to use modern engineering tools.(P5)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	37	34	5	0	0
	0.486842105	0.447368421	0.065789474	0	0
My adoption of professional ethics and concern for the society are appreciable.(P6,P7,P8)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree

	42	29	5	0	0
	0.552631579	0.381578947	0.065789474	0	0
I can lead and / or contribute as a team player (P9)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	48	27	1	0	0
	0.631578947	0.355263158	0.013157895	0	0
My capabilities in both oral and written communication are sufficient (P10)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	40	33	3	0	0
	0.526315789	0.434210526	0.039473684	0	0
I am able to apply Engineering and Management principles in multidisciplinary environment. (P11)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	34	33	9	0	0
	0.447368421	0.434210526	0.118421053	0	0
I am aware of being technologically upgraded through life long learning (P12)	Strongly Agree	Agree	Neutral	Don't Agree	Strongly Disagree
	43	30	3	0	0
	0.565789474	0.394736842	0.039473684	0	0

PO	Attainment
PO1	0.921052632
PO2	0.907894737
PO3	0.855263158
PO4	0.894736842
PO5	0.934210526
PO6	0.934210526
PO7	0.986842105
PO8	0.934210526
PO9	0.986842105
PO10	0.960526316
PO11	0.881578947
PO12	0.960526316



FR. CONCEICAO RODRIGUES COLLEGE OF ENGINEERING

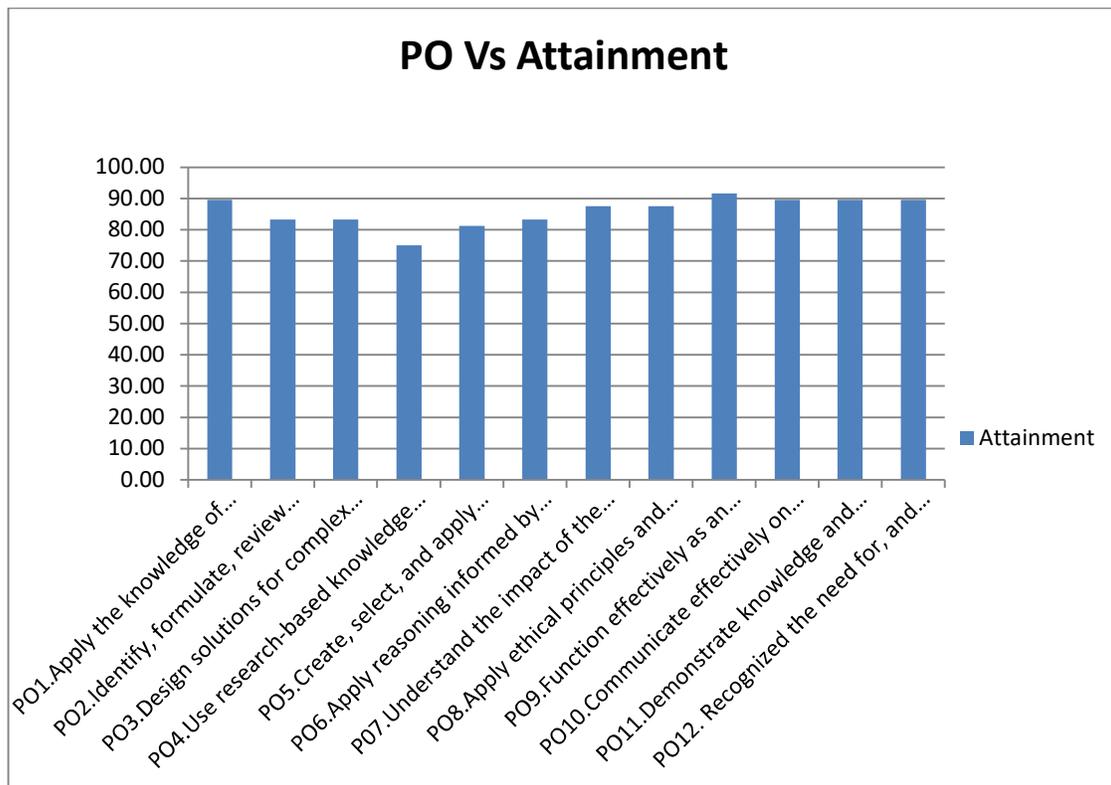
FR. AGNEL ASHRAM, BANDSTAND, BANDRA (W), MUMBAI,

Department of Information Technology

(Alumni Survey 2020-21)

PO	Fully	Mostly	Somewhat	Not at all	Total Participants	% Response (for Fully)	% Response (for Mostly)	% Response (for Somewhat)	% Response (for Not At all)	Attainment
PO1.Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.	8	20	15	5	48	16.67	41.67	31.25	10.42	89.58
PO2.Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences	9	16	15	8	48	18.75	33.33	31.25	16.67	83.33
PO3.Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for public health and safety, and the cultural, societal, and environmental considerations	9	16	15	8	48	18.75	33.33	31.25	16.67	83.33
PO4.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	8	15	13	12	48	16.67	31.25	27.08	25.00	75.00
PO5.Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling of complex engineering activities with an understanding of the limitations	7	19	13	9	48	14.58	39.58	27.08	18.75	81.25
PO6.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.	10	17	13	8	48	20.83	35.42	27.08	16.67	83.33
P07.Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of,	5	20	17	6	48	10.42	41.67	35.42	12.50	87.50

and the need for sustainable development											
PO8.Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice	13	20	9	6	48	27.08	41.67	18.75	12.50	87.50	
PO9.Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings	21	15	8	4	48	43.75	31.25	16.67	8.33	91.67	
PO10.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	16	18	9	5	48	33.33	37.50	18.75	10.42	89.58	
PO11.Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's work, as a member and leader in a team, to manage projects and in multidisciplinary environments	13	20	10	5	48	27.08	41.67	20.83	10.42	89.58	
PO12. Recognized the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change	22	16	5	5	48	45.83	33.33	10.42	10.42	89.58	



Alumni Survey(PSO Analysis)

PSO	Yes	No	Total Participants	%responses for Yes	%responses for No
PSO1:Contribute towards real-life information system development and implementation.	24	24	48	50.00	50.00
PSO2: Learn and practice contemporary IT domain knowledge.	38	10	48	79.17	20.83

