

CO-PO REPORT OF ENVIRONMENTAL SCIENCE (AIDED)

Sl. No.	Course Code	Name of Course	Teacher- in- charge
1	CC19PESC2C07	Fundamentals of Environmental Engineering	Subin K Jose
2	CC19PESC2C08	Environmental Microbiology and Biotechnology	Dr Manju N J
3	CC19PESC2C09	Hydrology and Water resource management	Subin K Jose Dr Manju N J Dr Rekha V B
4	CC19PESC2C10	Remote sensing and GIS	Dr Rekha V B
6	CC19PESC1L03 & CC19PESC1L04	Practical III & IV	Subin K Jose Dr Manju N J Dr Rekha V B



CHRIST COLLEGE (AUTONOMOUS)
IRINJALAKUDA.Kerala-680125

Program(s) : PG - MSC - M.Sc. Environmental Science (Aided)	Department(s) : ENVIRONMENTAL SCIENCE	Batch(s) : MSC ENV SC 2022 - S2
Course Community : CC19PESC2C07 MSC ENV SC 2022 S2	Faculty(s) : Subin K Jose	Course : Fundamentals of Environmental Engineering

CO PO ATTAINMENT Report

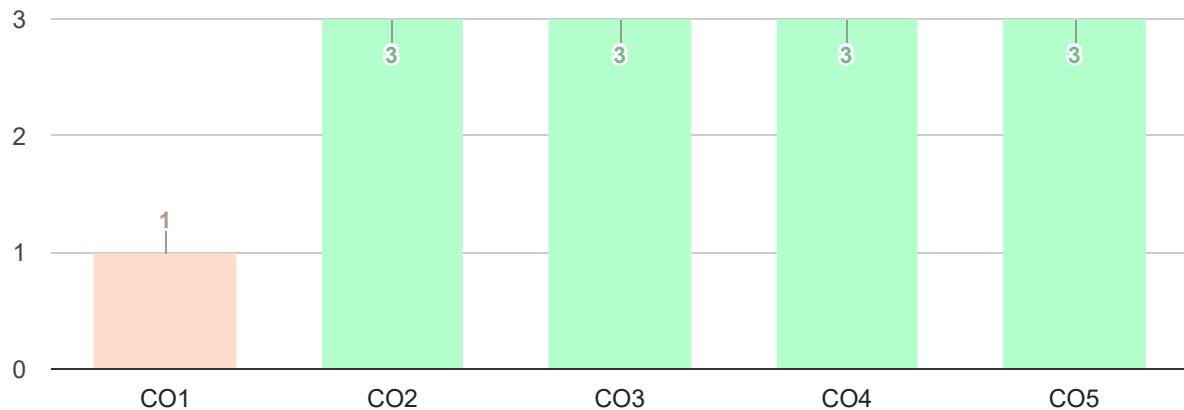
Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
1	CCAWMES001	ADWAITH K B	72.8	90.72	85.6	85.6	85.6
2	CCAWMES002	AMITH M R	35.36	99.36	86.56	90.22	82.72
3	CCAWMES003	ANAMIKA.E.B	73.44	86.24	80.75	82.58	78.24
4	CCAWMES004	ARYA.S.KUMAR	35.04	93.92	84.64	93.55	86.24
5	CCAWMES005	DRISYA M P	77.92	89.44	34.4	89.26	64.8
6	CCAWMES006	FIDA FATHIMA S	85.92	98.72	85.92	85.92	73.12
7	CCAWMES007	GAYATHRI S	34.72	98.72	91.04	85.92	88.48
8	CCAWMES008	HARSHA K SURESH	34.72	98.72	85.92	93.23	85.92
9	CCAWMES009	MALAVIKA CHANDRAKUMAR	85.92	85.92	91.04	98.72	81.12
10	CCAWMES010	MANEESH V.M.	86.56	99.36	86.56	95.7	81.76
11	CCAWMES011	MINNU MOHAN	34.72	98.72	85.92	89.58	81.12
12	CCAWMES012	PRANAV H.	0	0	0	0	0
13	CCAWMES013	SNEHA A D	35.68	99.68	86.88	88.71	86.88
14	CCAWMES014	SREELAKSHMI T.J	86.24	86.24	88.8	82.58	86.24

Class Strength	14
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Course Outcomes addressed	CO1	CO2	CO3	CO4	CO5
Target of Course Outcome	60	60	60	60	60
No of students with CO value greater than or equal to 60	7	13	12	13	13
Percentage of students with CO value greater than 60	50	92.86	85.71	92.86	92.86
Average	55.65	87.55	76.72	82.97	75.87
Attainment Level	1.00	3.00	3.00	3.00	3.00
Attainment :High ■ Medium ■ Low ■					

CO Attainment Levels



Attainment :High ■ Medium ■ Low ■

CO List	
CO Code	Description
CO1	Develop an understanding of Concepts, characteristics of environmental engineering and ethics in environmental engineering.
CO2	Develop perspective on Sources of water pollution, pollutant dynamics in environment, measurement of water pollution, water quality parameters
CO3	Review knowledge in Solid waste characterization, dynamics of wastes in environment, management and disposal of solid wastes and Treatment methods.
CO4	Make aware of Legislation on management and handling of municipal solid wastes, bio-medical wastes and hazardous wastes.
CO5	Create awareness regarding physical pollution



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Program(s) : PG - MSC - M.Sc. Environmental Science (Aided)	Department(s) : ENVIRONMENTAL SCIENCE	Batch(s) : MSC ENV SC 2022 - S2
Course Community : CC19PESC2C08 MSC ENV SC 2022 S2	Faculty(s) : Dr Manju N J	Course : Environmental Microbiology and Biotechnology

CO PO ATTAINMENT Report

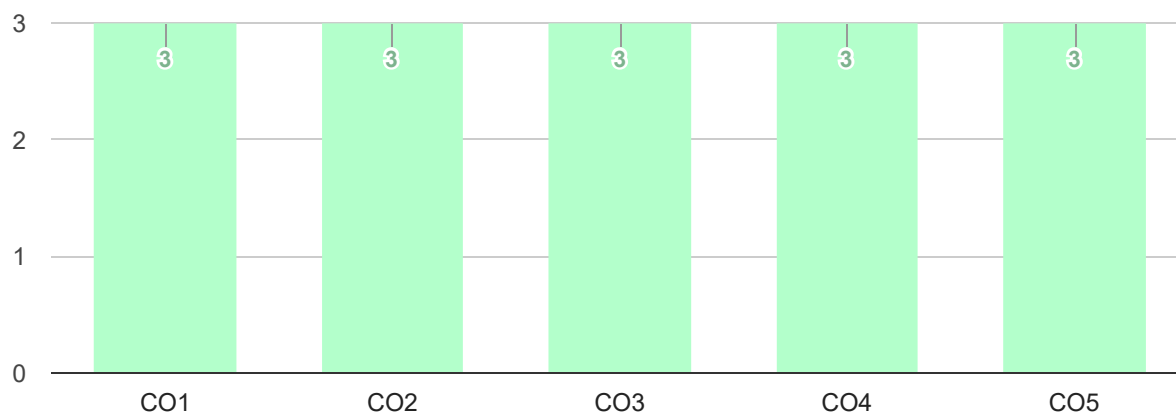
Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
1	CCAWMES001	ADWAITH K B	32.93	71.33	96.93	77.73	85.08
2	CCAWMES002	AMITH M R	86.78	95.93	99.58	99.58	97.96
3	CCAWMES003	ANAMIKA.E.B	86.98	78.98	99.78	86.98	90.05
4	CCAWMES004	ARYA.S.KUMAR	98.56	72.96	85.76	85.76	89.01
5	CCAWMES005	DRISYA M P	60.54	60.54	34.94	65.66	68.07
6	CCAWMES006	FIDA FATHIMA S	82.78	85.98	98.78	98.78	89.51
7	CCAWMES007	GAYATHRI S	99.58	99.58	91.58	86.78	92.58
8	CCAWMES008	HARSHA K SURESH	73.73	73.73	60.93	70.53	79.06
9	CCAWMES009	MALAVIKA CHANDRAKUMAR	76.86	95.42	35.26	35.26	94.14
10	CCAWMES010	MANEESH V.M.	99.68	90.54	99.68	99.68	99.68
11	CCAWMES011	MINNU MOHAN	86.21	86.21	99.01	86.21	93.08
12	CCAWMES012	PRANAV H.	0	0	0	0	0
13	CCAWMES013	SNEHA A D	99.9	99.9	99.9	99.9	87.85
14	CCAWMES014	SREELAKSHMI T.J	85.95	85.95	98.75	92.35	94.75

Class Strength	14
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Course Outcomes addressed	CO1	CO2	CO3	CO4	CO5
Target of Course Outcome	60	60	60	60	60
No of students with CO value greater than or equal to 60	12	13	11	12	13
Percentage of students with CO value greater than 60	85.71	92.86	78.57	85.71	92.86
Average	76.46	78.36	78.63	77.51	82.92
Attainment Level	3.00	3.00	3.00	3.00	3.00
Attainment :High ■ Medium ■ Low ■					

CO Attainment Levels



Attainment :High ■ Medium ■ Low ■

CO List	
CO Code	Description
CO1	Examine the characteristics, classification, identification and morphology of microorganisms.
CO2	Analyze the physiological status of microorganisms in the environment.
CO3	Demonstrate the role of biotechnology in Environmental protection.
CO4	Develop perspective on Emerging trends in biotechnology for Environmental Protection.
CO5	Devise innovative biotechnological Methods in Pollution Control.



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Course Community : CC19PESC2C09 MSC ENV SC 2022 S2	Faculty(s) : Subin K Jose', 'Dr Manju N J', 'Dr Rekha V B	Course : Hydrology and Water Resource Management

END SEM Report

Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
1	CCAWMES001	ADWAITH K B	90	85.71	*	75	92
2	CCAWMES002	AMITH M R	100	80	*	88	84
3	CCAWMES003	ANAMIKA.E.B	100	62.86	100	80	92.5
4	CCAWMES004	ARYA.S.KUMAR	92.5	92.86	*	80	80
5	CCAWMES005	DRISYA M P	90	88.33	*	80	80
6	CCAWMES006	FIDA FATHIMA S	94	100	*	90	80
7	CCAWMES007	GAYATHRI S	84	85.71	*	100	80
8	CCAWMES008	HARSHA K SURESH	92.5	91.67	*	100	87.5
9	CCAWMES009	MALAVIKA CHANDRAKUMAR	90	100	*	100	88
10	CCAWMES010	MANEESH V.M.	86	100	*	100	90
11	CCAWMES011	MINNU MOHAN	90	84	*	88	80
12	CCAWMES013	SNEHA A D	90	90	*	100	80

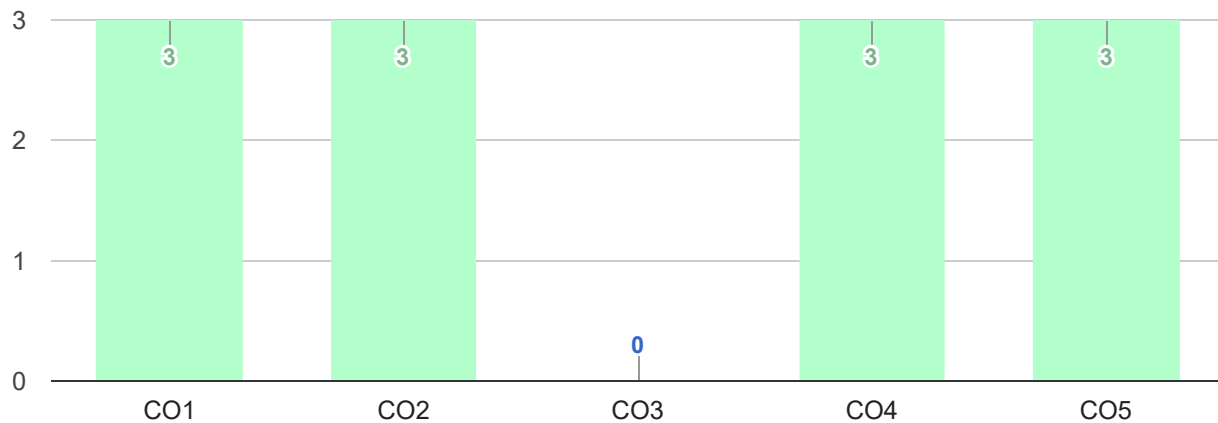
END SEM Report

Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
13	CCAWMES014	SREELAKSHMI T.J	90	88.57	*	80	80

Class Strength	14				
Course Outcomes addressed	CO1	CO2	CO3	CO4	CO5
Target of Course Outcome	60	60	60	60	60
No of students with CO value greater than or equal to 60	13	13	1	13	13
Percentage of students with CO value greater than 60	100	100	7.69	100	100
Average	91.46	88.44	7.69	89.31	84.15
Attainment Level	3.00	3.00	0	3.00	3.00
Attainment :High <input type="checkbox"/> Medium <input type="checkbox"/> Low <input type="checkbox"/>					

CO Attainment Levels



Attainment :High Medium Low

CO List	
CO Code	Description
CO1	Develop perspective on Surface water hydrology and groundwater hydrology.
CO2	Create an awareness on Flood frequency and water balance.
CO3	Analyse the status of Distribution of water - local, regional and global.
CO4	Develop an insight in to Water resource management.
CO5	Generate an idea on watershed development and management



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Course Community : CC19PESC2C10 MSC ENV SC 2022 S2	Faculty(s) : Dr Rekha V B	Course : Remote Sensing and GIS

END SEM Report

Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
1	CCAWMES001	ADWAITH K B	84	84	84	84	84
2	CCAWMES002	AMITH M R	92	92	92	92	92
3	CCAWMES003	ANAMIKA.E.B	90	90	90	90	90
4	CCAWMES004	ARYA.S.KUMAR	90	90	90	90	90
5	CCAWMES005	DRISYA M P	90	90	90	90	90
6	CCAWMES006	FIDA FATHIMA S	94	94	94	94	94
7	CCAWMES007	GAYATHRI S	94	94	94	94	94
8	CCAWMES008	HARSHA K SURESH	96	96	96	96	96
9	CCAWMES009	MALAVIKA CHANDRAKUMAR	96	96	96	96	96
10	CCAWMES010	MANEESH V.M.	96	96	96	96	96
11	CCAWMES011	MINNU MOHAN	94	94	94	94	94
12	CCAWMES012	PRANAV H.	0	0	0	0	0

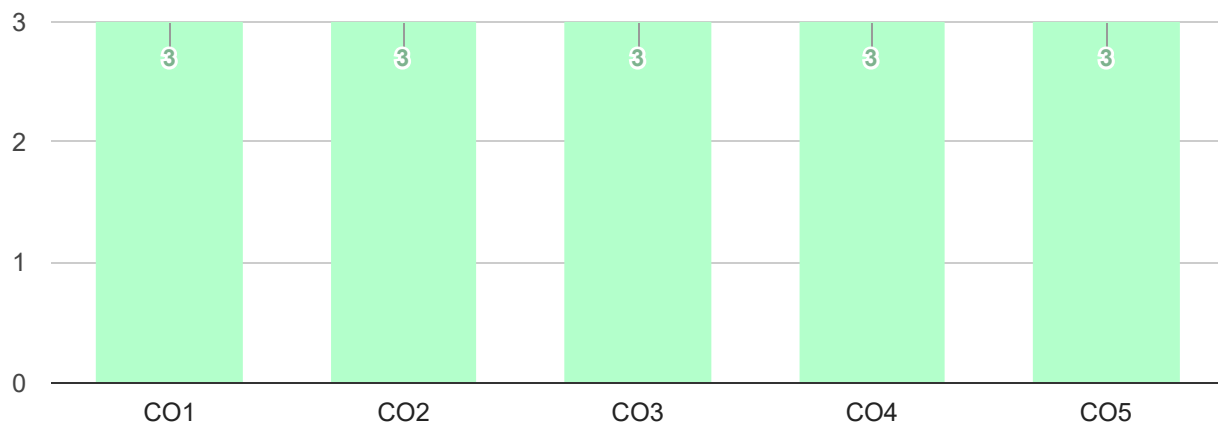
END SEM Report

Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
13	CCAWMES013	SNEHA A D	90	90	90	90	90
14	CCAWMES014	SREELAKSHMI T.J	92	92	92	92	92

Class Strength	14				
Course Outcomes addressed	CO1	CO2	CO3	CO4	CO5
Target of Course Outcome	60	60	60	60	60
No of students with CO value greater than or equal to 60	13	13	13	13	13
Percentage of students with CO value greater than 60	92.86	92.86	92.86	92.86	92.86
Average	85.57	85.57	85.57	85.57	85.57
Attainment Level	3.00	3.00	3.00	3.00	3.00
Attainment :High <input type="checkbox"/> Medium <input type="checkbox"/> Low <input type="checkbox"/>					

CO Attainment Levels



Attainment :High Medium Low

CO List	
CO Code	Description
CO1	Develop a comprehensive perspective on topographical maps.
CO2	Develop an insight in to methods and equipment used in Aerial Photo Interpretation.
CO3	Analyse Remote sensing and GIS techniques to solve environmental problems.
CO4	Apply remote sensing and GIS techniques in various fields.
CO5	Create an awareness on geospatial techniques used in Environmental management



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Course Community : CC19PESC2L03 & CC19PESC2L04 MSC ENV SC 2022 S2	Faculty(s) : Subin K Jose', 'Dr Manju N J', 'Dr Rekha V B	Course : Practical III & IV

CO PO ATTAINMENT Report

Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
1	CCAWMES001	ADWAITH K B	95.73	95.73	95.73	95.73	95.73
2	CCAWMES002	AMITH M R	99.15	99.15	99.15	99.15	99.15
3	CCAWMES003	ANAMIKA.E.B	99.15	99.15	99.15	99.15	99.15
4	CCAWMES004	ARYA.S.KUMAR	97.44	97.44	97.44	97.44	97.44
5	CCAWMES005	DRISYA M P	98.29	98.29	98.29	98.29	98.29
6	CCAWMES006	FIDA FATHIMA S	96.59	96.59	96.59	96.59	96.59
7	CCAWMES007	GAYATHRI S	97.44	97.44	97.44	97.44	97.44
8	CCAWMES008	HARSHA K SURESH	100	100	100	100	100
9	CCAWMES009	MALAVIKA CHANDRAKUMAR	80	80	80	80	80
10	CCAWMES010	MANEESH V.M.	100	100	100	100	100
11	CCAWMES011	MINNU MOHAN	99.15	99.15	99.15	99.15	99.15
12	CCAWMES012	PRANAV H.	3.2	3.2	3.2	3.2	3.2

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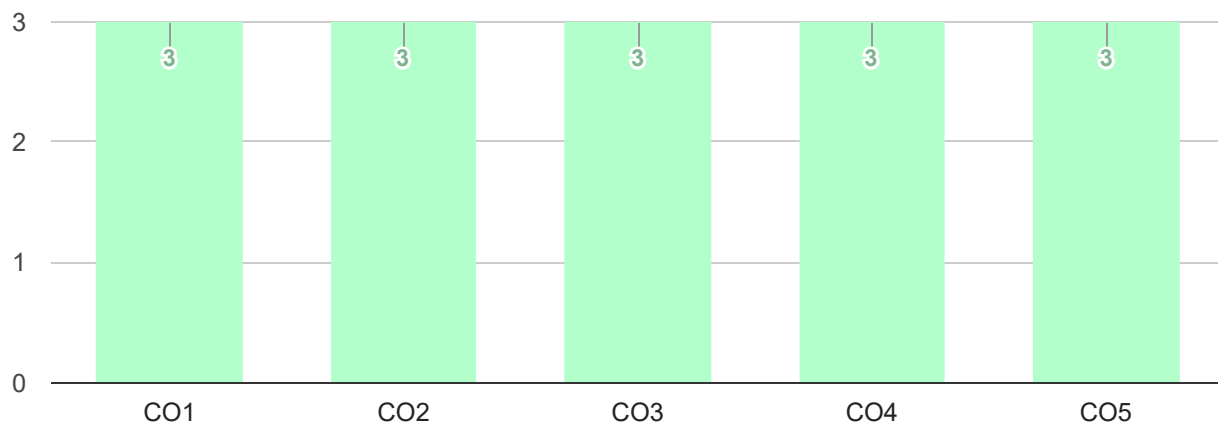
Above Target Percentage : Below Target Percentage:

#	Reg No	Student Name	CO1	CO2	CO3	CO4	CO5
13	CCAWMES013	SNEHA A D	98.29	98.29	98.29	98.29	98.29
14	CCAWMES014	SREELAKSHMI T.J	97.44	97.44	97.44	97.44	97.44

Class Strength	14				
Course Outcomes addressed	CO1	CO2	CO3	CO4	CO5
Target of Course Outcome	60	60	60	60	60
No of students with CO value greater than or equal to 60	13	13	13	13	13
Percentage of students with CO value greater than 60	92.86	92.86	92.86	92.86	92.86
Average	90.13	90.13	90.13	90.13	90.13
Attainment Level	3.00	3.00	3.00	3.00	3.00

Attainment :High Medium Low

CO Attainment Levels



Attainment :High Medium Low

CO List	
CO Code	Description
CO1	Analyze physico-chemical properties of solid waste.
CO2	Make isolates of microbial cultures and identify microorganisms.
CO3	Develop skill to identify various geomorphic and environmental features in the maps.
CO4	Develop skills in Digital Image Processing.
CO5	Apply RS and GIS Techniques for problem solving in various fields.