



Indra Ganesan

COLLEGE OF ENGINEERING

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai
Accredited by NAAC with 'B+' Grade, 2(f) & 12B Status Institution by UGC

IG Valley, Madurai Main Road, Manikandam, Tiruchirappalli - 620012

NAAC DOCUMENTS

QUALITY INDICATOR FRAME WORK

CRITERION – 1

CURRICULAR ASPECTS

SUBMITTED BY

IQAC

INTERNAL QUALITY ASSURANCE CELL

INDRA GANESAN COLLEGE OF ENGINEERING





DEPARTMENT OF SCIENCE AND HUMANITIES

ACADEMIC YEAR 2020-2021 / ODD SEMESTER

1.2 Academic Flexibility (30)

1.2.1 Number of Certificate/Value added courses offered and online courses of MOOCs, SWAYAM, NPTEL etc. (where the students of the institution have enrolled and successfully completed during the last five years)

AND

1.2.2 Percentage of students enrolled in Certificate/ Value added courses and also completed online courses of MOOCs, SWAYAM, NPTEL etc. as against the total number of students during the last five years

VAC Title:	CLIMATE CHANGE				
Resource Person:	Dr. R. Boobalan Assistant professor of chemistry, Indra ganesan college of engineering, Trichy.			Mrs A.Ramya Assistant professor of chemistry, Indra ganesan college of engineering, Trichy.	
Date of conduct from:	7.12.2020	To:	11.12.2020	Duration:	30 Hours
Organized Department:	SCIENCE AND HUMANITIES				
Participant Year:	I Year	Semester:	ODD	No. of Students Registered:	145
Venue:	ONLINE MODE GOOGLE MEET: https://meet.google.com/ygi-fvdr-sun				

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Department of Science and Humanities
Academic Year 2020-2021 –Odd Semester

3.12.2020

DEPARTMENT CIRCULAR

Department of **Science and Humanities** and IQAC of IGCE is going to organize Value Added Course for all first year students on “**Climate change**” from 7.12.2020 to 11.12.2020. Certificates will be issued to the eligible participants at the end of the Course. This training is to be provided in our campus.

Resource Person Detail	<ol style="list-style-type: none">1. Dr. R. Boobalan Assistant professor of chemistry, Indraganesan college of engineering, Trichy.2. Mrs. A.Ramya Assistant professor of chemistry, Indraganesan college of engineering, Trichy.
Venue	Google meet https://meet.google.com/ygi-fvdr-sun

Dr. R. Boobalan
HOD/S&H

[Signature]
PRINCIPAL

Cc:

- Principal office
- IQAC Co-Ordinator
- HoD/ S&H
- Class In charges - I-Year
- I-Year S&H Students
- Office File
- NoticeBoard

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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Value Added Course

"Climate change"

SYLLABUS

S.NO	TOPIC COVERED	DURATION (in hours)	DATE
1	Introduction to climate change	3	7.12.2020
2	Greenhouses gases	3	7.12.2020
3	The global energy balance	3	8.12.2020
4	The greenhouse effect	3	8.012.2020
5	Ocean atmosphere interactions	3	9.12.2020
6	Atmosphere circulation	3	9.12.2020
7	The study of past climates	3	10.12.2020
8	The role of biological activities	3	10.12.2020
9	Climate models	3	11.12.2020
10	The impact of global warming	3	11.12.2020
11	Exam	1	11.12.2020
Total Hours (Excluding exam)		30	-

Sambhramaselin
VAC Coordinator

S. Babalar
HoD/S&H

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
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IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.



Value Added Course

STUDENTS PARTICIPATION LIST

"Climate change"

Dr. G. Balakrishnan, M.E., Ph.D.,
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Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.

S.NO	REGISTER NUMBER	NAME	YEAR/ BRANCH
1	811220205002	AISHWARIYA V	I/ IT
2	811220205003	ANBAZHAGAN S	I/ IT
3	811220202005	BALAMOCHAN N	I/ IT
4	811220205006	BENNY A	I/ IT
5	811220205007	BOOMIKA P	I/ IT
6	811220205008	CHARULATHA B	I/ IT
7	811220205009	CHIRANJEEVI V	I/ IT
8	811220205010	DEEPIKA S	I/ IT
9	811220205011	DINESH M	I/ IT
10	811220205012	GOWTHAM B	I/ IT
11	811220205014	HARIHARAN S	I/ IT
12	811220205015	HEMALATHA G	I/ IT
13	811220205016	JEEVA M	I/ IT
14	811220205017	JEEVITHA G	I/ IT
15	811220205018	KEERTHANA S	I/ IT
16	811220205019	KIRUBHASHREE D	I/ IT
17	811220205020	KRISHNAN N	I/ IT
18	811220205021	MAGESH G	I/ IT
19	811220205022	MAHASUVETHA M	I/ IT
20	811220205023	MANIKANDAN M	I/ IT
21	811220205024	MEENATCHI A	I/ IT
22	811220205025	MOHANA PRIYA K	I/ IT
23	811220205026	MONISHA A	I/ IT
24	811220205027	MURUGESAN K	I/ IT
25	811220205029	PRAGADHI R	I/ IT
26	811220205031	PRIYANGA G	I/ IT
27	811220205030	PRIYANGA K	I/ IT
28	811220205032	RAJESHWARI S	I/ IT
29	811220205033	RAMYA DEVI K	I/ IT
30	811220205035	RASIKA A	I/ IT
31	811220205036	RAVIKUMAR M	I/ IT
32	811220205037	SABINATH K	I/ IT



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33	811220205039	SHARMI A	I/ IT
34	811220205040	SHEIK ABDULLA H	I/ IT
35	811220205042	SOUNDARYA V	I/ IT
36	811220205043	SRIRAM C	I/ IT
37	811220205044	SUGANYA G	I/ IT
38	811220205045	SUSHMEETHA A	I/ IT
39	811220205046	THANASEKARAN S	I/ IT
40	811220205047	THASNEEM BEGAM Y	I/ IT
41	811220205048	THIRUMENI V	I/ IT
42	811220205049	VAISHNAVI KS	I/ IT
43	811220205050	YASIKA	I/ IT
44	811220103011	DHARUNKUMAR R	I/CIVIL
45	811220103020	GUNASEELAN	I/CIVIL
46	811220103024	IYYAPANMANI A	I/CIVIL
47	811220103025	KALANCHIYA MUNIYARAJ B	I/CIVIL
48	811220103029	MANIKANDAN M	I/CIVIL
49	811220103030	MOHANA PRIYA S	I/CIVIL
50	811220103032	MUTHUSELVAM A	I/CIVIL
51	811220103041	SUDHAKAR R	I/CIVIL
52	811220103046	VISHWA S	I/CIVIL
53	811218104002	AJITH KUMAR S	I/CSE
54	811220104003	AKSHAYA T	I/CSE
55	811220104004	APPAS ALID	I/CSE
56	811220104005	ARAVINDH V K	I/CSE
57	811220104007	AYISHA SIDDEEQUA A	I/CSE
58	811220104008	BENASIR S	I/CSE
59	811220104012	CIBINA S	I/CSE
60	811220104013	DEVI K	I/CSE
61	811220104014	DHIVYADHARSHINI A	I/CSE
62	811220104015	DIVYAKEERTHAN P	I/CSE
63	811220104016	GAYATHRI P	I/CSE
64	811220104017	GNANAPRAKASAM A	I/CSE
65	811220104018	GOWRISANKAR G	I/CSE
66	811220104019	HARIHARAN K	I/CSE
67	811220104021	JOHN P	I/CSE
68	811220104024	KAMALI A	I/CSE
69	811220104025	KAMATCHI S	I/CSE
70	811220104026	KEERTHIKA N	I/CSE
71	811220104027	KIRUTHIKA M	I/CSE
72	811220104029	MATHAVAN N	I/CSE


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73	811220104030	MILTAN A	I/CSE
74	811220104031	MONISHA R	I/CSE
75	811220104032	PRIYA P	I/CSE
76	811220104033	PRIYADHARSHINI G	I/CSE
77	811220104034	PRIYADHARSHINI I	I/CSE
78	811220104039	SATHYA PRIYA N	I/CSE
79	811220104041	SIVARANJINI M	I/CSE
80	811220104043	SNEKA R	I/CSE
81	811220104045	SRIDHAR P	I/CSE
82	811220104046	SUMITHIRA R	I/CSE
83	811220104048	SWARNAMBIGAI V	I/CSE
84	811220104050	THIRUMAVALAVAN	I/CSE
85	811220104051	VINITH ROSHAN A	I/CSE
86	811220104052	YUVARAJ M	I/CSE
87	811220104053	YUVASRI S	I/CSE
89	811220106003	ANITARANI S	I/ ECE
90	811220106006	BANU PRIYA G	I/ ECE
91	811220106008	BHARATHIDHASAN C	I/ ECE
92	811220106018	JANCY J	I/ ECE
93	811220106019	JEEVASEN N	I/ ECE
94	811220106021	KAMARAJ S	I/ ECE
95	811220106022	KARTHICK C	I/ ECE
96	811220106023	KARTHIKA S	I/ ECE
97	811220106024	KEERTHANA R	I/ ECE
98	811220106025	KISHORE R	I/ ECE
99	811220106026	KISHORE KUMAR M	I/ ECE
100	811220106028	MANCY E	I/ ECE
111	811220106031	PRADHAP J	I/ ECE
112	811220106032	PRASANNA A.J	I/ ECE
113	811220106033	PREETHIKA M	I/ ECE
114	811220106034	PREMALATHA M	I/ ECE
115	811220106037	SHRI HARINI PRIYA B	I/ ECE
116	811220106038	SNEGA M	I/ ECE
117	811220106039	SOBI AMIRTHA N	I/ ECE
118	811220106041	SUNIL KUMAR B	I/ ECE
119	811220106042	SUSILA N	I/ ECE
120	811220106049	YOGA PRIYA R	I/ ECE
121	811220114001	ABINESH A S	I/MECH
122	811220114003	ANBARASAN M	I/MECH
123	811220114005	ARUNKUMAR M	I/MECH
124	811220114008	BALAMURUGAN R	I/MECH

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125	811220114013	DHANUSHRAJA P	I/MECH
126	811220114015	DURAI PANDI A	I/MECH
127	811220114016	GANANA SEKAR S	I/MECH
128	811220114017	HARIHARAN M	I/MECH
129	811220114018	HARISH KUMAR P	I/MECH
130	811220114020	KANISHKAVARDHINI S	I/MECH
131	811220114021	KARTHIK RAJ M	I/MECH
132	811220114025	KISHOR KUMAR D	I/MECH
133	811220114026	LOGANATHAN C	I/MECH
134	811220114028	MANIKANDAN S	I/MECH
135	811220114032	MOHAMED ASHIF A	I/MECH
136	811220114039	SANJAY KUMAR M	I/MECH
137	811220114040	SANTHOSH KUMAR R	I/MECH
138	811220114042	SARANYA SREE T R	I/MECH
139	811220114043	SARAVANAN M	I/MECH
140	811220114044	SATHISHKUMAR V	I/MECH
141	811220114047	SHEIK AMEER M	I/MECH
142	811220114052	THAMARAISELVAN K	I/MECH
143	811220114055	VELMURUGAN M	I/MECH
144	811220114056	VIGNESWARAN K	I/MECH
145	811220114057	VIJAYA KUMAR G	I/MECH

Santhomaselvi
VAC Coordinator

S. Boobalan
HoD/S&H


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Report on Value Added Course					
Title:	"Climate change"				
Resource Person:	Dr. R. Boobalan Assistant professor of chemistry, Indraganesan college of engineering, Trichy.	Mrs.A.Ramya Assistant professor of chemistry, Indraganesan college of engineering, Trichy.			
Date of conduct from :	7.12.2020	To:	11.12.2020	Duration:	30 Hours
Organized Department:	SCIENCE AND HUMANITIES				
Participant Year:	1	No. of Students Registered :	145		
Venue:	Google meet https://meet.google.com/ygi-fvdr-sun				
Outcome of Value Added Course (VAC): At the end of the Course, Students can able to					
1. Understand the scientific evidence for Climate Change and Global warming, by means of a bibliographic review.					
2. Analyze the evidence for Climate Change on a local or global, short, medium or long-term scale through analysis and discussion of scientific articles.					
3. Discuss the problem, its effects and possible solutions through a guided debate and discussion.					
4. Communicate the information about Climate Change in a technical and efficient way.					
Assessment Process					
• Students, who are securing more than 60% on total score and secured more than 75% in attendance is eligible to receive the certificate for the VAC course conducted					
• Total Score = (0.5 * Attendance in VAC out of 100 percentage + 0.5 * Test mark in VAC out of 100 marks)					
 VAC Coordinator	 HoD/S&H	 Principal			


Dr. G. Balakrishnan, M.E., Ph.D.,
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Madurai Main Road (NH-45B), Manikandam, Trichy-12.
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Sample Photos of Value Added Course

Title: "Climate change"

Resource Person:

1. **Dr. R. Boobalan**
Assistant professor of chemistry,
Indra ganesan college of engineering,
Trichy.
2. **Mrs. A.Ramya**
Assistant professor of chemistry,
Indra ganesan college of engineering,
Trichy.

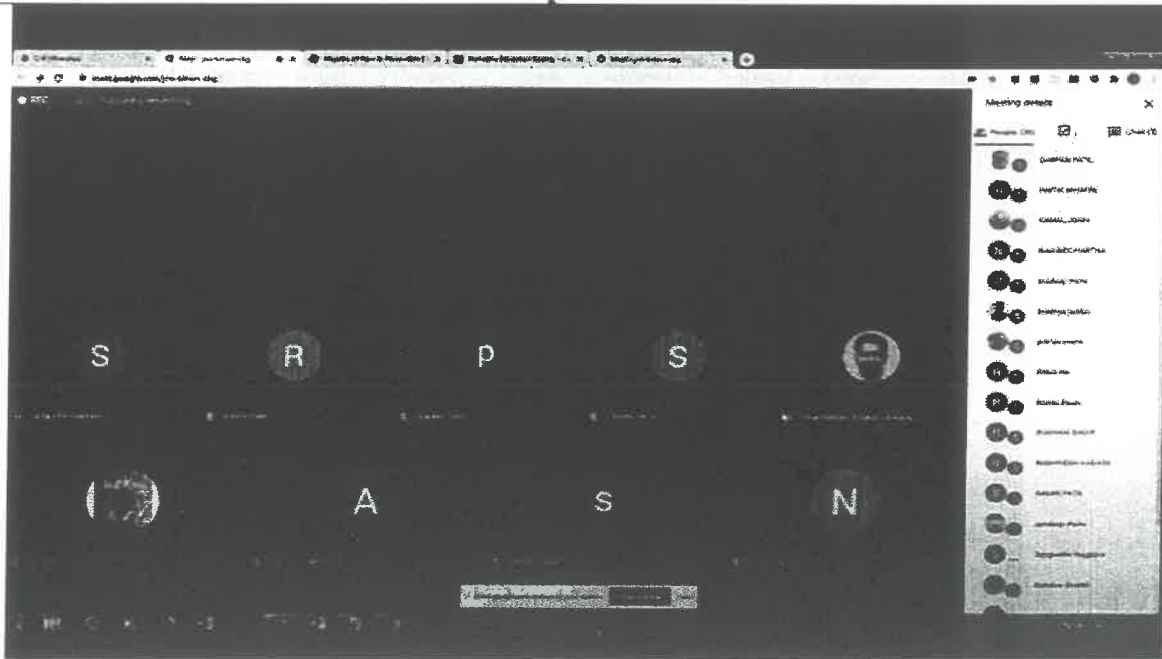
Date of conduct from : 7.12.2020 To: 11.12.2020 Duration 30 Hours

Organized Department "Climate change"

Participant Year: 1 No. of Students Registered : 145

Venue: Google meet
<https://meet.google.com/ygi-fvdr-sun>

Sample Photos



Sambianaseli
VAC Coordinator

R. Boobalan
HOD/S&H

[Signature]
Principal

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,
Principal

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Name of the Student:

Year/Sem:

AU Register Number:

Value Added Course

“Climate change”

MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)

1. What is the most important issue of our day?

- a) Food production
- b) Climate change
- c) Industrialization
- d) Greenhouse gases

2. Why are greenhouse gases essential to the survival of humans and other living things?

- a) They make the Earth habitable
- b) They cause global warming
- c) They reduce air pollution
- d) They are toxic to most living things

3. What is the main source of greenhouse gases?

- a) Deforestation
- b) Agriculture
- c) Fossil fuels
- d) Oceans

4. What is the IPCC?

- a) A government agency that promotes fossil fuel use
- b) An organization that promotes climate change denial
- c) A scientific panel that provides unbiased climate change information
- d) A lobbying group for renewable energy companies

5. What is the Fifth Assessment Report?

- a) A report on the causes of sea level rise
- b) A report on the benefits of renewable energy
- c) A report on the effects of climate change on wildlife
- d) A report on the dangers of climate change denial

6. How much has the global sea level rise between 1901 and 2010?

- a) 1 cm
- b) 10 cm
- c) 19 cm
- d) 100 cm


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7. What is the probability that the average global temperature will continue to increase above pre-industrial levels by the end of this century?

- a) Low
- b) Medium
- c) High
- d) Unknown

8. What is the IPCC special report on the impacts of global warming of 1.5°C?

- a) A report on the benefits of fossil fuel use
- b) A report on the positive effects of climate change
- c) A report on the negative effects of climate change
- d) A report on the benefits of limiting global warming to 1.5°C

9. According to the IPCC special report, what is necessary to limit global warming to 1.5°C?

- a) Swift and extensive reforms
- b) No action is necessary
- c) A gradual transition to renewable energy
- d) Increased use of fossil fuels

10. What are the advantages of limiting global warming to 1.5°C?

- a) A more sustainable and equitable society
- b) More extreme weather events
- c) A decrease in sea levels
- d) A decrease in food production

11. What are the effects of climate change that may be avoided if global warming is limited to 1.5°C instead of 2°C or greater?

- a) Higher sea level rise
- b) Increased frequency of extreme weather events
- c) More severe droughts
- d) All of the above

12. How long would it take to stabilize global temperatures if immediate action is taken?

- a) 10 years
- b) 20-30 years
- c) 50 years
- d) 100 years

13. What is the main cause of sea level rise?

- a) Glacier melts
- b) Ocean expansion
- c) Both glacier melt and ocean expansion
- d) Deforestation


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14. Which one of the following cause global warming?

- a) Carbon dioxide
- b) Oxygen
- c) Nitrogen
- d) Hydrogen

15. How many percent of carbon dioxide increased in the atmosphere since pre-industrial times?

- a) About 10%
- b) About 20%
- c) About 30%
- d) About 40%

16. What is the full form of UNFCCC with respect to global warming convention?

- a) United Nations Framework Convention on Climate Change
- b) United Nations Federation Convention on Climate Change
- c) United Nations Framework Centre on Climate Change
- d) United Nations Federation Centre on Climate Change

17. Who measures the global warming rate?

- a) Astrologers
- b) Physicist
- c) Philosopher
- d) Climatologist

18. Which one of the following result takes place due to global warming?

- a) Maintaining steady temperature
- b) Changes in the rainfall
- c) Pleasant environment
- d) Causing less pollution

19. Which one of the following cause global warming?

- a) Radiative forcing
- b) Earth gravitation force
- c) Oxygen
- d) Centripetal force

20. How human activity has influenced global warming?

- a) By planting more trees
- b) By causing changing in gravitational force
- c) By changing the radiative balance governing the Earth
- d) By protecting environment

21. Which one of the following is the anthropogenic radiative forcing of climate?

- a) Aerosols
- b) Cement
- c) Paper
- d) Glass


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22. Which one of the following land use causes global warming?

- a) Increase in the fertility of soil
- b) Surface reflectance
- c) Forestation
- d) Adopting organic farming

23. Changes in the composition of the atmosphere is an example of _____


- a) Internal forcing
- b) External forcing
- c) Mid forcing
- d) Gravitational forcing

24. What is the main reason for melting of ice sheets?

- a) Increase in the oxygen content
- b) Global warming
- c) Decrease in carbon dioxide content
- d) Noise pollution

25. Which one of the following is the effect of global warming?

- a) Maintaining sea level
- b) Proper rainfall
- c) Desertification
- d) Afforestation


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Value Added Course

“Climate change”

ANSWER KEY

1	b	6	c	11	D	16	a	21	a
2	a	7	c	12	B	17	d	22	b
3	c	8	d	13	C	18	b	23	b
4	c	9	a	14	A	19	a	24	b
5	a	10	a	15	C	20	c	25	c

Sankar Das
VAC Coordinator


Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

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Department of Science and Humanities

STUDENTS ATTENDANCE LIST

Academic Year 2020-2021 – Odd Semester

Value Added Course

“Climate change”

S.NO	REGISTER NUMBER	NAME	YEAR/ BRANCH	7.12.2020		8.12.2020		9.12.2020		10.12.2020		11.12.2020		NO OF SESSIONS ATTENDED	ONLINE
				FN	AN	FN	AN	FN	AN	FN	AN	FN	AN		
1	811220205002	AISHWARIYA V	I/ IT	P	P	P	P	P	P	A	P	P	P	27	
2	811220205003	ANBAZHAGAN S	I/ IT	P	P	P	A	P	P	P	P	P	P	28	
3	811220202005	BALAMOCHAN	I/ IT	P	P	P	P	P	P	P	P	P	P	30	
4	811220205006	BENNY A	I/ IT	P	P	P	A	P	P	P	A	P	P	26	
5	811220205007	BOOMIKA P	I/ IT	P	A	P	P	P	P	P	P	P	P	27	
6	811220205008	CHARULATHA B	I/ IT	P	P	P	P	P	P	P	P	P	P	28	
7	811220205009	CHIRANJEEVI V	I/ IT	P	P	P	P	P	P	P	P	P	P	27	
8	811220205010	DEEPIKA S	I/ IT	P	P	P	P	A	P	P	P	P	P	28	
9	811220205011	DINESH M	I/ IT	P	P	P	P	P	P	P	P	P	P	30	


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58	811220104008	BENASIR S	I/CSE	P	A	P	P	P	P	P	A	P	P	26	
59	811220104012	CIBINA S	I/CSE	P	P	P	P	P	A	P	P	P	P	27	
60	811220104013	DEVI K	I/CSE	P	P	P	P	P	P	P	P	P	P	30	
61	811220104014	DHIVYADHARSHINI A	I/CSE	P	P	P	P	P	P	A	P	P	P	26	
62	811220104015	DIVYAKEERTHAN P	I/CSE	P	P	P	P	P	P	P	P	P	P	30	
63	811220104016	GAYATHRI P	I/CSE	P	P	P	P	P	P	A	P	P	P	26	
64	811220104017	GNANAPRAKASAM A	I/CSE	P	A	P	P	P	A	P	P	P	P	26	
65	811220104018	GOWRISANKAR G	I/CSE	P	P	P	P	P	P	P	A	P	P	27	
66	811220104019	HARIHARAN K	I/CSE	P	A	P	P	P	P	A	P	P	P	26	
67	811220104021	JOHN P	I/CSE	P	P	P	P	P	P	P	A	P	P	27	
68	811220104024	KAMALI A	I/CSE	P	P	P	P	P	P	P	P	P	P	30	
69	811220104025	KAMATCHI S	I/CSE	P	A	P	P	P	P	P	A	P	P	26	
70	811220104026	KEERTHIKA N	I/CSE	P	P	P	P	P	P	P	P	P	P	30	
71	811220104027	KIRUTHIKA M	I/CSE	P	A	P	P	P	P	P	A	P	P	26	
72	811220104029	MATHAVAN N	I/CSE	P	A	P	P	P	P	P	A	P	P	26	
73	811220104030	MILTAN A	I/CSE	P	P	P	P	P	P	P	A	P	P	27	



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133	811220114026	LOGANATHAN C	I/Mech	P	P	A	P	P	P	P	A	P	P	26	
134	811220114028	MANIKANDAN S	I/Mech	P	P	P	P	A	P	A	P	P	P	26	
135	811220114032	MOHAMED ASHIF A	I/Mech	P	P	P	P	P	A	P	P	P	P	27	
136	811220114039	SANJAY KUMAR M	I/Mech	P	P	P	P	P	P	P	P	P	P	30	
137	811220114040	SANTHOSH KUMAR R	I/Mech	P	P	P	A	P	P	P	A	P	P	26	
138	811220114042	SARANYA SREE T R	I/Mech	P	P	P	P	P	P	P	P	P	P	30	
139	811220114043	SARAVANAN M	I/Mech	P	P	A	P	P	P	P	A	P	P	26	
140	811220114044	SATHISHKUMAR V	I/Mech	P	P	P	P	P	P	P	P	P	P	30	
141	811220114047	SHEIK AMEER M	I/Mech	P	P	P	A	P	P	P	A	P	P	26	
142	811220114052	THAMARAISELVAN K	I/Mech	P	P	A	P	P	P	P	A	P	P	26	
143	811220114055	VELMURUGAN M	I/Mech	P	P	P	P	P	P	P	P	P	P	30	
144	811220114056	VIGNESWARAN K	I/Mech	P	P	P	P	A	P	P	A	P	P	26	
145	811220114057	VIJAYA KUMAR G	I/Mech	P	P	P	P	P	P	P	P	P	P	30	

Santhianaraj
VAC Coordinator

Dr. G. Balakrishnan
Dr. G. Balakrishnan, M.E., Ph.D.,
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S. Subalan
HOD/S&H



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Department of Science and Humanities

Academic Year 2020-2021 – Odd Semester

VALUE ADDED COURSE ASSESMENT SHEET

“Climate change”

S.NO	REGISTER NUMBER	NAME	YEAR/ BRANCH	Attendance Details		VAC-MCQ TEST		OVERALL MARK (100) (50% of A + 50% of B)
				No. of Hours Attended	Attendance Mark(100)	No of Correct Answers	MCQ Mark(100)	
					(A)		(B)	
1	811220205002	AISHWARIYA V	I/ IT	27	82	21	84	83
2	811220205003	ANBAZHAGAN S	I/ IT	28	85	19	76	80
3	811220202005	BALAMOCHAN	I/ IT	30	91	18	72	81
4	811220205006	BENNY A	I/ IT	26	79	18	72	75
5	811220205007	BOOMIKA P	I/ IT	27	82	21	84	83
6	811220205008	CHARULATHA B	I/ IT	28	85	19	76	80
7	811220205009	CHIRANJEEVI V	I/ IT	27	82	21	84	83
8	811220205010	DEEPIKA S	I/ IT	28	85	19	76	80
9	811220205011	DINESH M	I/ IT	30	91	18	72	81
10	811220205012	GOWTHAM B	I/ IT	26	79	18	72	75

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11	811220205014	HARIHARAN S	I/ IT	27	82	21	84	83
12	811220205015	HEMALATHA G	I/ IT	30	91	18	72	81
13	811220205016	JEEVA M	I/ IT	26	79	18	72	75
14	811220205017	JEEVITHA G	I/ IT	30	91	18	72	81
15	811220205018	KEERTHANA S	I/ IT	26	79	18	72	75
16	811220205019	KIRUBHASHREE D	I/ IT	30	91	18	72	81
17	811220205020	KRISHNAN N	I/ IT	27	82	21	84	83
18	811220205021	MAGESH G	I/ IT	27	82	21	84	83
19	811220205022	MAHASUVETHA M	I/ IT	28	85	19	76	80
20	811220205023	MANIKANDAN M	I/ IT	30	91	18	72	81
21	811220205024	MEENATCHI A	I/ IT	26	79	18	72	75
22	811220205025	MOHANAPRIYA K	I/ IT	27	82	21	84	83
23	811220205026	MONISHA A	I/ IT	30	91	18	72	81
24	811220205027	MURUGESAN K	I/ IT	26	79	18	72	75
25	811220205029	PRAGADHI R	I/ IT	30	91	18	72	81
26	811220205031	PRIYANGA G	I/ IT	26	79	18	72	75
27	811220205030	PRIYANGA K	I/ IT	30	91	18	72	81
28	811220205032	RAJESHWARI S	I/ IT	27	82	21	84	83
29	811220205033	RAMYA DEVI K	I/ IT	27	82	21	84	83
30	811220205035	RASIKA A	I/ IT	27	82	17	68	75
31	811220205036	RAVIKUMAR M	I/ IT	30	91	18	72	81
32	811220205037	SABINATH K	I/ IT	27	82	21	84	83
33	811220205039	SHARMI A	I/ IT	28	85	19	76	80

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34	811220205040	SHEIK ABDULLA H	I/ IT	30	91	18	72	81
35	811220205042	SOUNDARYA V	I/ IT	26	79	18	72	75
36	811220205043	SRIRAM C	I/ IT	27	82	21	84	83
37	811220205044	SUGANYA G	I/ IT	30	91	18	72	81
38	811220205045	SUSHMEETHA A	I/ IT	26	79	18	72	75
39	811220205046	THANASEKARAN S	I/ IT	30	91	18	72	81
40	811220205047	THASNEEMBEGAM Y	I/ IT	26	79	18	72	75
41	811220205048	THIRUMENI V	I/ IT	27	82	21	84	83
42	811220205049	VAISHNAVI KS	I/ IT	27	82	21	84	83
43	811220205050	YASIKA	I/ IT	28	85	19	76	80
44	811220103011	DHARUNKUMAR R	I/Civil	27	82	21	84	83
45	811220103020	GUNASEELAN	I/Civil	28	85	19	76	80
46	811220103024	IYYAPANMANI A	I/Civil	30	91	18	72	81
47	811220103025	KALANCHIYAMUNIYARAJ B	I/Civil	26	79	18	72	75
48	811220103029	MANIKANDAN M	I/Civil	27	82	21	84	83
49	811220103030	MOHANAPRIYA S	I/Civil	30	91	18	72	81
50	811220103032	MUTHUSELVAM A	I/Civil	26	79	18	72	75
51	811220103041	SUDHAKAR R	I/Civil	30	91	18	72	81
52	811220103046	VISHWA S	I/Civil	26	79	18	72	75
53	811218104002	AJITH KUMAR S	I/CSE	27	82	21	84	83
54	811220104003	AKSHAYA T	I/CSE	28	85	19	76	80
55	811220104004	APPASALI.D	I/CSE	30	91	18	72	81
56	811220104005	ARAVINDH V K	I/CSE	28	85	19	76	80

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57	811220104007	AYISHASIDDEEQUA A	I/CSE	30	91	18	72	81
58	811220104008	BENASIR S	I/CSE	26	79	18	72	75
59	811220104012	CIBINA S	I/CSE	27	82	21	84	83
60	811220104013	DEVI K	I/CSE	30	91	18	72	81
61	811220104014	DHIVYADHARSHINI A	I/CSE	26	79	18	72	75
62	811220104015	DIVYAKEERTHAN P	I/CSE	30	91	18	72	81
63	811220104016	GAYATHRI P	I/CSE	26	79	18	72	75
64	811220104017	GNANAPRAKASAM A	I/CSE	26	79	18	72	75
65	811220104018	GOWRISANKAR G	I/CSE	27	82	21	84	83
66	811220104019	HARIHARAN K	I/CSE	26	79	18	72	75
67	811220104021	JOHN P	I/CSE	27	82	21	84	83
68	811220104024	KAMALI A	I/CSE	30	91	18	72	81
69	811220104025	KAMATCHI S	I/CSE	26	79	18	72	75
70	811220104026	KEERTHIKA N	I/CSE	30	91	18	72	81
71	811220104027	KIRUTHIKA M	I/CSE	26	79	18	72	75
72	811220104029	MATHAVAN N	I/CSE	26	79	18	72	75
73	811220104030	MILTAN A	I/CSE	27	82	21	84	83
74	811220104031	MONISHA R	I/CSE	26	79	18	72	75
75	811220104032	PRIYA P	I/CSE	27	82	21	84	83
76	811220104033	PRIYADHARSHINI G	I/CSE	30	91	18	72	81
77	811220104034	PRIYADHARSHINI I	I/CSE	26	79	18	72	75
78	811220104039	SATHYAPRIYA N	I/CSE	26	79	18	72	75
79	811220104041	SIVARANJINI M	I/CSE	27	82	21	84	83

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80	811220104043	SNEKA R	I/CSE	30	91	18	72	81
81	811220104045	SRIDHAR P	I/CSE	26	79	18	72	75
82	811220104046	SUMITHIRA R	I/CSE	30	91	18	72	81
83	811220104048	SWARNAMBIGAI V	I/CSE	26	79	18	72	75
84	811220104050	THIRUMAVALAVAN	I/CSE	26	79	18	72	75
85	811220104051	VINITHROSHAN A	I/CSE	26	79	18	72	75
86	811220104052	YUVARAJ M	I/CSE	27	82	21	84	83
87	811220104053	YUVASRI S	I/CSE	30	91	18	72	81
89	811220106003	ANITARANI S	I/ ECE	26	79	18	72	75
90	811220106006	BANUPRIYA G	I/ ECE	30	91	18	72	81
91	811220106008	BHARATHIDHASAN C	I/ ECE	26	79	18	72	75
92	811220106018	JANCY J	I/ ECE	26	79	18	72	75
93	811220106019	JEEVASEN N	I/ ECE	27	82	21	84	83
94	811220106021	KAMARAJ S	I/ ECE	30	91	18	72	81
95	811220106022	KARTHICK C	I/ ECE	26	79	18	72	75
96	811220106023	KARTHIKA S	I/ ECE	30	91	18	72	81
97	811220106024	KEERTHANA R	I/ ECE	26	79	18	72	75
98	811220106025	KISHORE R	I/ ECE	30	91	18	72	81
99	811220106026	KISHORE KUMAR M	I/ ECE	26	79	18	72	75
100	811220106028	MANCY E	I/ ECE	30	91	18	72	81
111	811220106031	PRADHAP J	I/ ECE	26	79	18	72	75
112	811220106032	PRASANNA.J	I/ ECE	26	79	18	72	75
113	811220106033	PREETHIKA M	I/ ECE	27	82	21	84	83

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114	811220106034	PREMALATHA M	I/ ECE	30	91	18	72	81
115	811220106037	SHRI HARINIPRIYA B	I/ ECE	26	79	18	72	75
116	811220106038	SNEGA M	I/ ECE	30	91	18	72	81
117	811220106039	SOBIAMIRTHA N	I/ ECE	26	79	18	72	75
118	811220106041	SUNIL KUMAR B	I/ ECE	30	91	18	72	81
119	811220106042	SUSILA N	I/ ECE	26	79	18	72	75
120	811220106049	YOGA PRIYA R	I/ ECE	26	79	18	72	75
121	811220114001	ABINESH A S	I/Mech	30	91	18	72	81
122	811220114003	ANBARASAN M	I/Mech	26	79	18	72	75
123	811220114005	ARUNKUMAR M	I/Mech	26	79	18	72	75
124	811220114008	BALAMURUGAN R	I/Mech	27	82	21	84	83
125	811220114013	DHANUSHRAJA P	I/Mech	30	91	18	72	81
126	811220114015	DURAI PANDI A	I/Mech	26	79	18	72	75
127	811220114016	GANANASEKAR S	I/Mech	30	91	18	72	81
128	811220114017	HARIHARAN M	I/Mech	26	79	18	72	75
129	811220114018	HARISH KUMAR P	I/Mech	30	91	18	72	81
130	811220114020	KANISHKAVARDHINI S	I/Mech	26	79	18	72	75
131	811220114021	KARTHIK RAJ M	I/Mech	26	79	18	72	75
132	811220114025	KISHORKUMAR D	I/Mech	30	91	18	72	81
133	811220114026	LOGANATHAN C	I/Mech	26	79	18	72	75
134	811220114028	MANIKANDAN S	I/Mech	26	79	18	72	75
135	811220114032	MOHAMED ASHIF A	I/Mech	27	82	21	84	83
136	811220114039	SANJAY KUMAR M	I/Mech	30	91	18	72	81



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137	811220114040	SANTHOSH KUMAR R	I/Mech	26	79	18	72	75
138	811220114042	SARANYASREE T R	I/Mech	30	91	18	72	81
139	811220114043	SARAVANAN M	I/Mech	26	79	18	72	75
140	811220114044	SATHISHKUMAR V	I/Mech	30	91	18	72	81
141	811220114047	SHEIK AMEER M	I/Mech	26	79	18	72	75
142	811220114052	THAMARAISELVAN K	I/Mech	26	79	18	72	75
143	811220114055	VELMURUGAN M	I/Mech	30	91	18	72	81
144	811220114056	VIGNESWARAN K	I/Mech	26	79	18	72	75
145	811220114057	VIJAYAKUMAR G	I/Mech	30	91	18	72	81

Santhamaseelan
VAC Coordinator

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S. Raabalan
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CERTIFICATE OF PARTICIPATION

This is to certify that **MR. MILTAN A**, I Year, CSE has successfully completed the Value Added Course on **“CLIMATE CHANGE”** Organized by Department of Science and Humanities and IQAC of our Institution from 08th MAY 2021 to 12th MAY 2021 (5days) during the Academic year 2020-2021.

R. Boobalan

Dr. R. Boobalan

**Assistant professor of chemistry
Indra ganesan college of engineering**

[Signature]
**Dr. G. Balakrishnan, M.E., Ph.D.,
Principal**

**Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Trichy-620 012.**

[Signature]
Principal



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CERTIFICATE OF PARTICIPATION

This is to certify that **MR. MANIKANDAN M**, I Year, Civil has successfully completed the Value Added Course on **“CLIMATE CHANGE”** Organized by Department of Science and Humanities and IQAC of our Institution from 08th MAY 2021 to 12th MAY 2021 (5days) during the Academic year 2020-2021.

R. Boobalan

Dr. R. Boobalan

**Assistant professor of chemistry
Indra ganesan college of engineering**

[Signature]
Principal

[Signature]
Dr. G. Balakrishnan, M.E., Ph.D.,

Principal

**Indra Ganesan College of Engineering
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CERTIFICATE OF PARTICIPATION

This is to certify that **MR. DEVIKA K**, I Year,CSE has successfully completed the Value Added Course on **“CLIMATE CHANGE”** Organized by Department of Science and Humanities and IQAC of our Institution in Association with from 07 DEC 2020 to 11th DEC 2020 (5days) during the Academic year 2020-2021.

S. Boobalan

Indra ganesan college

Dr.S. Boobalan

Assistant professor

Principal

PRINCIPAL

Indra Ganesan College of Engineering
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Manikandam, Trichy



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CERTIFICATE OF PARTICIPATION

This is to certify that **Ms. BANASIR S**, I Year,CSE has successfully completed the Value Added Course on “**CLIMATE CHANGE**” **Organized** by Department of Science and Humanities and IQAC of our Institution in Association with from 07 DEC 2020 to 11th DEC 2020 (5days) during the Academic year 2020-2021.

S. Boobalan

Indra ganesan college
Dr.S. Boobalan
Assistant professor

Dr. G. Balakrishnan, M.E., Ph.D.,
Principal
Indra Ganesan College of Engineering
IG Valley, Madurai Main Road
Manikandam, Tiruchirappalli - 620 012

Principal



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CERTIFICATE OF PARTICIPATION

This is to certify that **Ms. MOHANA PRIYA S**, I Year,CIVIL has successfully completed the Value Added Course on **“CLIMATE CHANGE”** **Organized** by Department of Science and Humanities and IQAC of our Institution in Association with from 07 DEC 2020 to 11th DEC 2020 (5days) during the Academic year 2020-2021.

S. Boobalan

Indra ganesan college
Dr.S. Boobalan
Assistant professor

Principal

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This is to certify that **Ms. YOGA PRIYA K**, I Year, ECE has successfully completed the Value Added Course on **“CLIMATE CHANGE”** Organized by Department of Science and Humanities and IQAC of our Institution in Association with from 07 DEC 2020 to 11th DEC 2020 (5days) during the Academic year 2020-2021.

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This is to certify that **MR. KAVIYARASU C**, I Year, IT has successfully completed the Value Added Course on “**AN ADVANCED APPROACH TO WEB DESIGNING**” **Organized** by Department of Science and Humanities of our Institution in Association with **Mecello Tech** from 10th Dec 2018 to 14th Dec 2018 (5days) during the Academic year 2018-2019.

Mecello Tech
Mr.M.Senthilkumar
Managing Director.

Dr. G. Balakrishnan, M.E., Ph.D.,

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Mecello Tech
Mr.M.Senthilkumar
Managing Director.

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Name of the Student: *Sharmi.A*

Year/Sem: *I/I*

AU Register Number: *811220205039*

Value Added Course

“Climate change”

MULTIPLE CHOICE QUESTIONS (25 X 4 = 100 Marks)

19

25

1. What is the most important issue of our day?

- a) Food production
- b) Climate change
- c) Industrialization
- d) Greenhouse gases

2. Why are greenhouse gases essential to the survival of humans and other living things?

- a) They make the Earth habitable
- b) They cause global warming
- c) They reduce air pollution
- d) They are toxic to most living things

3. What is the main source of greenhouse gases?

- a) Deforestation
- b) Agriculture
- c) Fossil fuels
- d) Oceans

4. What is the IPCC?

- a) A government agency that promotes fossil fuel use
- b) An organization that promotes climate change denial
- c) A scientific panel that provides unbiased climate change information
- d) A lobbying group for renewable energy companies

5. What is the Fifth Assessment Report?

- a) A report on the causes of sea level rise
- b) A report on the benefits of renewable energy
- c) A report on the effects of climate change on wildlife
- d) A report on the dangers of climate change denial

6. How much has the global sea level rise between 1901 and 2010?

- a) 1 cm
- b) 10 cm
- c) 19 cm
- d) 100 cm

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7. What is the probability that the average global temperature will continue to increase above pre-industrial levels by the end of this century?

- a) Low
- b) Medium
- c) High
- d) Unknown

8. What is the IPCC special report on the impacts of global warming of 1.5°C?

- a) A report on the benefits of fossil fuel use
- b) A report on the positive effects of climate change
- c) A report on the negative effects of climate change
- d) A report on the benefits of limiting global warming to 1.5°C

9. According to the IPCC special report, what is necessary to limit global warming to 1.5°C?

- a) Swift and extensive reforms
- b) No action is necessary
- c) A gradual transition to renewable energy
- d) Increased use of fossil fuels

10. What are the advantages of limiting global warming to 1.5°C?

- a) A more sustainable and equitable society
- b) More extreme weather events
- c) A decrease in sea levels
- d) A decrease in food production

11. What are the effects of climate change that may be avoided if global warming is limited to 1.5°C instead of 2°C or greater?


- a) Higher sea level rise
- b) Increased frequency of extreme weather events
- c) More severe droughts
- d) All of the above

12. How long would it take to stabilize global temperatures if immediate action is taken?

- a) 10 years
- b) 20-30 years
- c) 50 years
- d) 100 years

13. What is the main cause of sea level rise?

- a) Glacier melts
- b) Ocean expansion
- c) Both glacier melt and ocean expansion
- d) Deforestation


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14. Which one of the following cause global warming?

- a) Carbon dioxide
- b) Oxygen
- c) Nitrogen
- d) Hydrogen

15. How many percent of carbon dioxide increased in the atmosphere since pre-industrial times?

- a) About 10%
- b) About 20%
- c) About 30%
- d) About 40%

16. What is the full form of UNFCCC with respect to global warming convention?

- a) United Nations Framework Convention on Climate Change
- b) United Nations Federation Convention on Climate Change
- c) United Nations Framework Centre on Climate Change
- d) United Nations Federation Centre on Climate Change

17. Who measures the global warming rate?

- a) Astrologers
- b) Physicist
- c) Philosopher
- d) Climatologist

18. Which one of the following result takes place due to global warming?

- a) Maintaining steady temperature
- b) Changes in the rainfall
- c) Pleasant environment
- d) Causing less pollution

19. Which one of the following cause global warming?

- a) Radiative forcing
- b) Earth gravitation force
- c) Oxygen
- d) Centripetal force

20. How human activity has influenced global warming?

- a) By planting more trees
- b) By causing changing in gravitational force
- c) By changing the radiative balance governing the Earth
- d) By protecting environment

21. Which one of the following is the anthropogenic radiative forcing of climate?

- a) Aerosols
- b) Cement
- c) Paper
- d) Glass

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22. Which one of the following land use causes global warming?

- a) Increase in the fertility of soil
- b) Surface reflectance
- c) Forestation
- d) Adopting organic farming

23. Changes in the composition of the atmosphere is an example of _____

- a) Internal forcing
- b) External forcing
- c) Mid forcing
- d) Gravitational forcing

24. What is the main reason for melting of ice sheets?

- a) Increase in the oxygen content
- b) Global warming
- c) Decrease in carbon dioxide content
- d) Noise pollution

25. Which one of the following is the effect of global warming?

- a) Maintaining sea level
- b) Proper rainfall
- c) Desertification
- d) Afforestation


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