

### **<u>1.2 AcademicFlexibility(30)</u>**

**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:	Desi	gn & T	esting of [	Bio-Degrada	able P	lastics	in Chemist	ry		
Resource Pe	erson:	Trainin ETS Ao	Kalaiyazha g In charg cademy, 538001.	0		Manaş ETS A	.Manikandar ger, Academy, -638001.	1,		
Dat e of con	duct f	rom:	11.03.20	24	To:	16.03	.2024	<b>Duration:</b>	36H	lours
Organized I	Depar	tment:	DEPART	MENT OF	SCIE	NCE &	& HUMANI	TIES	<u>.</u>	
Participant Year:		I Year S	S&H	Semester:	E	VEN	No. of Stu Registered			125
Venue: Le	ecture	hall of	I Year S&	żН						

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### DEPARTMENT OF SCIENCE & HUMANITIES

### **CIRCULAR**

In order to bridge the curricular gap between the Academic Syllabus and Industry requirements, Department of Science & Humanities and IQAC of our Institution in association with ETS Academy is organizing a Value Added Course (VAC) for the students of I year of S&H on the title "Design & Testing Of Bio Degradable Plastics In Chemistry" from 11.03.2024 to 16.03.2024. At the end of the VAC, course completion certificates will be issued to the eligible participants as per the following norms.

 Students, who are securing more than 70% on total score in the VAC test and secured more than 75% in VAC attendance is eligible to receive the course completion certificate for the VAC attended.

ResourcePerson	Mr.M.Kalaiyazhagan, Training Incharge,	Mr.M.Manikandan, Manager, ETS Academy,
Details	ETS Academy, Erode-638001	Erode-638001
Venue	Lecturchallof I year S&H	

### Copy to:

- 1. Chairman & Secretary for information
- 2. Principal office
- 3. IQAC Co-Ordinator
- 4. Class Incharges-I year S&H
- 5.1 year S&H Students
- 6. S&H Notice Board
- 7. Department File



PRINCIPAL



### DEPARTMENT OF SCIENCE & HUMANITIES

### Ref.SCE / S&H/Students / VAC / 2023 - 2024 / EVEN

11.03.2024

### SYLLABUS-VALUEADDED COURSE

"Design & Testing of Bio Degradable Plastics in Chemistry"

### From 11.03.2024 to 16.03.2024(6days)

**Duration: 36 Hours** 

Academic Year: 2023 -2024/EVEN

S.No.	Topics Covered	Duration (In Hours)	Date
1	Introduction to Biodegradable Plastics	3	11.03.2024
2	Chemistry of Biodegradable Plastics	3	11.03.2024
3	Raw Materials and Monomers for Biodegradable Plastics	3	12.03.2024
4	Materials Science of Biodegradable Plastics	3	12.03.2024
5	Biodegradable Plastic Production and Processing	3	13.03.2024
6	Testing Methods for Biodegradable Plastics	3	13.03.2024
7	Properties of Biodegradable Plastics	3	14.03.2024
8	Environmental Impact and Sustainability	3	14.03.2024
9	Innovations in Biodegradable Plastics	3	15.03.2024
10	Synthesis and Fabrication of Biodegradable Plastics	3	. 15.03.2024
11	Degradation Testing and Analysis	3	16.03.2024
12	Applications of Biodegradable Plastics	3	16.03.2024
	Total Hours	36	·

After successful completion of 36 Hours VAC, the assessment test for the VAC titled "Design & Testing Of Bio Degradable Plastics in Chemistry" will be conducted on 16.03.2024.

finator

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING. Vijsyamangalam - 638 056, Tirupur (Dt)

HoD/S&H



### STUDENTS PARTICIPATION LIST -VALUE ADDED COURSE

### "Design & Testing of Bio Degradable Plastics in Chemistry"

### From 11.03.2024 to 16.03.2024 (6days)

**Duration: 36 Hours** 

Academic Year: 2023 -2024/ EVEN

S.no	Register Number	Name of the Student	Year/Dept
1	732423103001	SUJAN.A	I/CIVIL
2	732423104002	ABINAYA.A	I/CSE
3	732423104003	ABINAYA.S	I/CSE
4	732423104004	ARULJOTHLP	I/CSE
5	732423104008	ASVIKA.S	I/CSE
2	732423104009	BALAJI.M	I/CSE
7	732423104010	BALASUBRAMANIAM.P	I/CSE
8	732423104012	DIVYA.M	I/CSE
9	732423104013	ELAVARASAN.R	I/CSE
10	732423104014	GOKULPRASATH.P	I/CSE
11	732423104015	GUNASURYA.S	I/CSE
12	732423104016	HARISHWA.V.S	I/CSE
13	732423104017	HARISHWARAN.V.S	I/CSE
14	732423104019	JOTHIPRIYA.B	I/CSE
15	732423104020	KANIKA.V	I/CSE
16	732423104021	KARTHIKA.G	I/CSE
17	732423104022	KASTHURI.S	I/CSE
8	732423104023	KAVIYA.R	I/CSE
19	732423104024	MAGESH.S	I/CSE
20	732423104025	MADHUMITHA.K	I/CSE
21	732423104031	PRABAKARAN.S	I/CSE
	732423104032	PRABU.A	I/CSE
.3	732423104034	PRIYADHARSHINI.P	I/CSE
4	732423104035	RAJESHKANNA.G	I/CSE
5	732423104036	RAMYA.S	I/CSE
6	732423104037	RAVISHANKAR.K	I/CSE
7	732423104038	SACHIN.R.S	I/CSE
8	732423104039	SAMIKSHA.V	I/CSE
9	732423104040	SIVARANJANI.K	I/CSE
0	732423104041	SUGUNA.K	I/CSE
1	732423104042	VIGNESHWARAN.T	I/CSE
2	732423104043	VIJAY.R	I/CSE
3	732423104044	VIKRAM.V	I/CSE
4	732423104046	VISHAL.T	I/CSE
5	732422104026	LOGESWARAN.K	I/CSE
5	732423105001	AKASH.S	1 VEEE
7	732423105002	RAJARETHINAM.M	I/EEE
3	732423105003	SANTHOSHKUMAR.M Dr.M.VIJAYAKU	AR ME., Ph.D., I/EEE

SASURIE COLLEGE OF ENGINEERING.

Vijayamangalam - C38 056, Tirupur (Dt).





### STUDENTS PARTICIPATION LIST –VALUE ADDED COURSE

S.no	Register Number	Name of the Student	Year/Dept
39	732423105004	SHANMUGAM.A	I/EEE
40	732423105005	SIVAGANAPATHY.V	L'EEE'
41	732423105006	THAYOOB.S	VEEE
42	732423106001	ABINAYA.S	I/ECE
43	732423106003	AJAYKUMAR.S	I/ECE
44	732423106004	AJMEERKAJA.S	I/ECE
45	732423106005	BALAJI.M	I/ECE
46	732423106006	BALAJOTHLK	I/ECE
47	732423106007	DHARISH.N	I/ECE
48	732423106008	DHARSHAN.A	I/ECE
49	732423106010	KAVIPRIYA.V	I/ECE
0	732423106010	KIRANSHANKAR. R	I/ECE
51	732423106012	KOWSALYAR	I/ECE
52	732423106012	MANIKANDAN.P	I/ECE
52	732423106013	MATHAVAN.K	I/ECE
55	732423106014	MONICKA.B	I/ECE
55	732423106013	PARAMESHWARLG	VECE
56	732423106018	PUNITHA.D	I/ECE
57	732423106020	RAJITHA.K	I/ECE
58	732423106020	RAMESH.K	I/ECE
59	732423106021	SELVAANISHIYA.C	I/ECE
60	732423106022	SHANMUGAPRIYAN. N	I/ECE
61	732423106023	SHEELA.J	I/ECE
62	732423106024	THARUNIESVAR.M	I/ECE
63	732423106025	THENNARASU.R	I/ECE
64	732423106027	THIRUVENGADAM.L	I/ECE
65	732423100027	MIRUTHULA.N	I/MECH
05 ()}	732423114001	MUKESH.C	I/MECH
67	732423114002	PRADEEP.V	I/MECH
68	732423114003	PRAVINANAND.V	I/MECH
69 69	732423114004	RAKUL.R	I/MECH
70	732423114005	SANJEEVKUMAR.M	I/MECH
70	732423149001	AKILANDESHWARI. S	· I/CSE(CS)
72	732423149001	GUNASEELAN.R	I/CSE(CS)
73	732423149002	KAVESHWARI.T	I/CSE(CS)
73	732423149003	NAGAARJUN.N	I/CSE(CS)
75	732423149004	NAVEENRAJ.D	I/CSE(CS)
76	732423149008	PARASURAM.N	I/CSE(CS)
70	732423149008	PARASURAM.N PRAGALYA.P	I/CSE(CS)
78	732423149009	RAGAVI.R	I/CSE(CS)
78	732423149010	SOWMIKA.D	I/CSE(CS)
80	732423149011	7	I/CSE(CS)
81		SUVETHA.K	I/CSE(CS)
81	732423149014	THEANINIYAN.E	
	732423149016	YOGESH.V.K Dr.M.VIJAYAKUMAR M ABINESH A PRINCIPAL	E. Ph.D. I/CSE(CS)
83	732423205001	ABINESH.A PRINCIPAL SASURIE COLLEGE OF ENGINEE	L/IT

A SASURIE COLLEGE OF ENGINEERING.

Vijayamangalam - 538 056, Tirupur (Dt).

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### STUDENTS PARTICIPATION LIST -VALUE ADDED COURSE

S.no	Register Number	Name of the Student	Year/Dept
84	732423205002	AKASH.J	L/LL
85	732423205003	ASHWIN.S	' L/IT
86	732423205004	DANUSH.S	L/IT
87	732423205006	DHARANITHARAN.S	L/IT
88	732423205007	DHARANIVEL.R	νπ
89	732423205008	EBIN.S	LIL
90	732423205009	GOKILA.N	VIT
91	732423205010	GOWRISRI.T	L/LL
92	732423205011	KANIKA.S	VIT
93	732423205012	KARTHIK.S	ИГГ
94	732423205013	KRISHNAJITH.K	I/IT
05	732423205014	MANIKANDAN.S	VIT
96	732423205015	NANDHINI.P	I/IT
97	732423205016	NAVANEETHAKRISHNAN.N	I/IT
98	732423205017	NAVEEDULHASSAN.N	I/IT
99	732423205019	PRAVEENKUMAR.B	L/IT
100	732423205020	SANTHIYA.A	I/ГГ
101	732423205021	E HARINI.K	I/IT
102	732423205022	SURENDAR.M	I/IT
103	732423205023	VIGNESH.S	L/IT
104	732423205024	VINODHINI.M	L/IT
105	732423243002	ARSHIYASANA.M	I/AIDS
106	732423243003	DHARSANKUMAR.S	I/AIDS
107	732423243004	DEEPIKA.S	I/AIDS
108	732423243005	GAYATHRI.S	I/AIDS
109	732423243006	GOWTHAM.V	I/AIDS
110	732423243007	HABEEBRAHMAN.J	I/AIDS
11	732423243009	HITHESHHARWIN.B	I/AIDS
112	732423243010	IMMANUVEL.H	I/AIDS
113	732423243012	JISHNU.R	I/AIDS
114	732423243013	KAVIN.S	I/AIDS
115	732423243014	KAVIYA.S	I/AIDS
116	732423243015	LATHIKA.S.K	I/AIDS
117	732423243016	MADHUMITHA.N	I/AIDS
118	732423243017	MONIKA.M	I/AIDS
119	732423243018	PRADEEP.S	I/AIDS
120	732423243019	PRIYADHARSHINLP	I/AIDS
121	732423243020	RITHIKROSHAN.G	I/AIDS
122	732423243021	SENTHAMIZH.M	I/AIDS
123	732423243022	SOBIKA.R	I/AIDS
124	732423243024	TAMIZHARASI.S	I/AIDS
125	732423243025	VIJAYKUMAR.S	I/AIDS

M.G VAC Coordinator

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING. Vijdyamangalam - 638 056, Tirupur (Dt)





# DEPARTMENT OF SCIENCE & HUMANITIES

# STUDENTS ATTENDANCE LIST-VALUE ADDED COURSE

"Design & Testing of Bio Degradable Plastics in Chemistry"

### From 11.03.2024 to 16.03.2024(6days)

### Duration: 36 Hours

Academic Year: 2023 -2024/EVEN

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Name of the Student		SUJANA	ABINAYA.A	ABINAYAS	ARULJOTHLP	ASVIKAS	BALAIM	732423104010 BALASUBRAMANIAMP	MAYAM	32423104013 ELAVARASANR	THE REAL PORTLERASATHP	ELECTION OF CLUASURYAS	TITATIONALS HARISHWAYS	HARISHWARANVS	OTHERNAB		
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16	732423104021	732423104021 KARTHIKA.0	VCSE				, ,					01	V. Hamp
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N. The	732423104023 XAVIYA.R	XAVIYAR	VCSE							•		20	Harrow ?
2	732423104/24 MAGESHIS	MAGESHS	VCSE	-		1. 1	, ,		-			10	R. Vioirya
47	732423114/125	7324231 04025 MADHUMITHA.K	I/C&P									100	Colley-S
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DE.M.VIJAYAKUIMAH KE. Price PERICEAL 315377E COLLEGE OF ENGINEEDING. Tappenergien - 534 VA. Troper (DI. SASURIE APProved by AICTE, New Delvi Amilated to Anna University, Chennal



No	Reg No.	Name of the Student	Vaaul	11.03.2024	2024	12.03.2024	2024	13.03.2024	024	14.03.2024	-	15.03.2024		16.03.2024	24	No. of	
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42.	42. 732423106001 ABINAYA.S	ABINAYA.S	I/ECE	/	~	d	d	~			-	. \			2	5	thurber -
43.	732423106003	<sup>43.</sup> 732423106003 AJAYKUMAR.S	I/ECE	1	~		~	-	R		-					1 1 0	Ant.
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46.	732423106006	46. 732423106006 BALAJOTHI.K	VECE		1	-	9										M.Balph
47.	47. 732423106007 DHARISH.N	DHARISH.N	VECE	/	R	. 8	1	• ~			-	• •					K.Balere.
48.	732423106008	<sup>48.</sup> 732423106008 DHARSHAN.A	I/ECE	-	~											201	
49.	732423106010	<sup>49</sup> 732423106010 KAVIPRIYA.V	<b>I/ECE</b>	~	-	d								-	-	100	ANNA
50.	732423106011	50. 732423106011 KIRANSHANKAR. R	I/ECE		1	~				7		-				22	X PAL
51.	732423106012	51. 732423106012KOWSALYA.R	VECE	g		~	1	DÇM.	DIM. VOAVAKUMAR ME. Phy	NUN NO	ARME	- D Ha				0 K N 0	Ronald a
ane and								SASURI	SASURIE COLLEGE OF ENGINEERING.	GE OF EN	VGINEER Tirupur	NG.			-		
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Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURE COLLEGE OF ENGINEERING. Vijayamangatam - 628 055, Tirunur (Dit

Computer Science Engineering in association with IQAC of Sasurie College of Engineering and C CUBE Technologies from Service Management and Business value: Strategies for Optimizing Service Delivery" Organized by the Department of This is to Certify that Ms.NIVETHA S, IV/CSE has successfully completed the Value Added Course titled "IT Principal Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL DEPARTMENT OF SCIENCE AND HUMANITIES SASURIE COLLEGE OF ENGINEERING, ijevemennelem 638.056 Timme (DN COLLEGE OF ENGINEERING **Certificate of Participation** Head of the Department iS SASURIE COLLE 12.02.2024 to 16.02.2024 (5 days). Co-ordinator

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M.R.A. Co-ordinator Head of the Department
Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING.



### **DEPARTMENT OF SCIENCE & HUMANITIES**

### **TEST OUESTION PAPER-VALUE ADDEDCOURSE**

"Design & Testing of Bio Degradable Plastics in Chemistry"

### From 11.03.2024 to 16.03.2024(6days) Duration:36 Hours Academic Year : 2023 -2024 /EVEN

### Date of Test :16.03.2024

### MULTIPLE CHOICE OUESTIONS 25X1=25 Marks)

Name of the Student:

Year/ Sem:

AU Register Number:

Answer all the questions:

### 1. What is the primary characteristic of biodegradable plastics?

- a) They break down into non-toxic components when exposed to the environment.
- b) They do not break down in nature.
- c) They are more durable than conventional plastics.
- d) They are always made from petroleum-based products.

### 2. Which of the following is a commonly used raw material in the production of biodegradable plastics?

- a) Polyethylene
- b) Polystyrene
- c) Starch
- d) Nylon

### 3. Which of the following is a key advantage of biodegradable plastics over traditional plastics?

- a) Higher cost of production
- b) Longer degradation time
- c) Reduced environmental pollution
- d) Better strength and durability

### 4. Which of the following methods is commonly used to test the biodegradability of plastics?

- a) Thermal decomposition analysis
- b) Soil burial test
- c) Chemical resistance test
- d) Tensile strength test

### 5. Which of the following is a biopolymer commonly used in biodegradable plastics?

- a) Polypropylene
- b) Polyvinył chloride (PVC)
- c) Polylactic acid (PLA)
- d) Polyethylene terephthalate (PET)

Dr.M.VIJAYAKUMAR ME., Ph.D., ASURIE COLLEGE OF EMPINEERING. 



### 6. Which factor does NOT affect the degradation rate of biodegradable plastics?

- a) Environmental temperature
- b) Presence of microorganisms
- c) Plastic color
- d) Humidity

### 7. Which of the following is a challenge in the use of biodegradable plastics?

- a) They degrade too quickly in most environments.
- b) They require significant amounts of energy to produce.
- c) They do not degrade in the presence of moisture.
- d) They can be more expensive than petroleum-based plastics.

### 8. What is the role of plasticizers in biodegradable plastics?

- (a) To increase the degradation rate of plastics
  - b) To reduce the rigidity and increase flexibility
  - c) To make the plastic more resistant to heat
  - d) To enhance the plastic's ability to resist UV light

### 9. Which of the following biodegradable plastics is derived from corn starch?

- a) Polyhydroxyalkanoates (PHA)
- b) Polylactic acid (PLA)
- c) Polycaprolactone (PCL)
- d) Polyvinyl alcohol (PVA)

### 10. Which of the following is a disadvantage of biodegradable plastics?

- a) High degradation rate
- b) Limited feedstock availability
- c) High toxicity during degradation
- d) Non-recyclable nature

### 11. The biodegradation of plastics primarily depends on which factor?

- () a) Polymer size
  - b) Environmental conditions
  - c) Thickness of the plastic
  - d) Temperature of the plastic during production

### 12. Which of the following is true regarding oxo-biodegradable plastics?

- a) They degrade only in the presence of sunlight.
- b) They degrade more slowly than regular plastics.
- c) They contain additives that promote oxidation and degradation.
- d) They do not degrade at all.

### 13. Which of the following can be used to test the mechanical properties of biodegradable plastics?

- a) Differential Scanning Calorimetry (DSC)
- b) Tensile strength test
- c) UV-VIS spectroscopy
- d) X-ray diffraction (XRD)

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### 14. Which of the following is the most commonly used method for producing biodegradable plastics like PLA?

- a) Condensation polymerization
- b) Addition polymerization
- c) Solution polymerization
- d) Ring-opening polymerization

### 15. Which of the following biodegradable plastics is commonly used for food packaging?

- a) Polyvinyl chloride (PVC)
- b) Polylactic acid (PLA)
- c) Polyethylene (PE)
- d) Polycarbonate (PC)

### 6. Which of the following properties is often tested to evaluate the environmental impact of biodegradable plastics?

- a) Heat distortion temperature
- b) Toxicity during degradation
- c) Optical clarity
- d) Molecular weight distribution

### 17. Which of the following best describes the process of biodegradation?

- a) The breakdown of plastics by UV radiation
- b) The chemical degradation of plastics in a landfill
- c) The breakdown of plastics into harmless byproducts through the action of microorganisms
- d) The physical breaking down of plastics through mechanical forces

### 18. Which of the following is a primary environmental concern with biodegradable plastics?

- a) They degrade too rapidly and contaminate the environment.
- b) They create more waste than conventional plastics.
- c) They may degrade into microplastics that pollute ecosystems.
- d) They are not renewable and rely on fossil fuels.

### 19. Which type of microorganism is commonly involved in the biodegradation of plastics?

- a) Viruses
- b) Fungi
- c) Bacteria
- d) Algae

### 20. What is the main advantage of polyhydroxyalkanoates (PHA) as biodegradable plastics?

- a) They are cheaper to produce than PLA.
- b) They are biodegradable in marine environments.
- c) They are non-toxic and not biodegradable.
- d) They are stronger than polyethylene.

21. Which of the following is a method used to speed up the degradation of biodegradable plastics?

- a) Increasing the molecular weight
- b) Adding bio-based plasticizers
- c) Introducing starch or cellulose-based fillers
- d) Increasing the thickness of the plastic





### 22. Which of the following is NOT a type of biodegradable plastic?

a) Polyvinyl alcohol (PVA)

b) Polylactic acid (PLA)

- c) Polyethylene terephthalate (PET)
- d) Polyhydroxyalkanoates (PHA)

### 23. What role do enzymes play in the biodegradation of biodegradable plastics?

- a) They prevent the degradation process.
- b) They catalyze the breakdown of plastic polymers into smaller molecules.
- c) They increase the strength of the plastic.
- d) They are used to make the plastic more flexible.

### 24. What is the main limitation of current biodegradable plastics in terms of commercial applications?

- a) High energy consumption during manufacturing
- b) Limited biodegradability under typical environmental conditions
- c) Poor mechanical properties compared to conventional plastics
- d) Lack of suitable raw materials

### 25. Which of the following is a key factor in determining the compostability of biodegradable plastics?

- a) The molecular weight of the polymer
- b) The presence of heavy metals in the plastic
- c) The temperature and moisture content of the composting environment
- d) The color of the plastic





### DEPARTMENT OF SCIENCE & HUMANITIES

### **TEST OUESTION ANSWER KEY-VALUE ADDED COURSE**

"Design & Tosting Of Bio Degradable Plastics in Chemistry"

From 11.03.2024 to 16.03.2024(6days)

**Duration: 36 Hours** 

Academic Year : 2023 - 2024 / EVEN

Date of Test :16.03.2024

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VAC Coordinator

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING. Vijayamangalam - 638 055, Tirupur (Di)

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**DEPARTMENT OF SCIENCE & HUMANITIES** 

### **TEST OUESTION PAPER-VALUE ADDEDCOURSE**

"Design & Testing of Bio Degradable Plastics in Chemistry"

### From 11.03.2024 to 16.03.2024(6days)

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AYAKUMAR ME., Ph.D., Dr.M.VIJ PRINCIPAL ISURIE COLLEGE CF ENGINEERING. Vijayamangalam - 538 056, Tirupur (Dt).





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Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 538 055, Tirupur (Dt).



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a) Increasing the molecular weight

EnAdding bio-based plasticizers

- c) Introducing starch or cellulose-based fillers
- d) Increasing the thickness of the plastic

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### 22. Which of the following is NOT a type of biodegradable plastic?

- a) Polyvinyl alcohol (PVA)
- b) Polylactic acid (PLA)
- e) Polyethylene terephthalate (PET)
- d) Polyhydroxyalkanoates (PHA)

### 23. What role do enzymes play in the biodegradation of biodegradable plastics?

- a) They prevent the degradation process.
- b) They catalyze the breakdown of plastic polymers into smaller molecules.
- c) They increase the strength of the plastic.
- d) They are used to make the plastic more flexible.

### 24. What is the main limitation of current biodegradable plastics in terms of commercial applications?

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- a) High energy consumption during manufacturing
- b) Limited biodegradability under typical environmental conditions
- Poor mechanical properties compared to conventional plastics
- d) Lack of suitable raw materials

### 25. Which of the following is a key factor in determining the compostability of biodegradable plastics?

- a) The molecular weight of the polymer
- b) The presence of heavy metals in the plastic
- c) The temperature and moisture content of the composting environment
- d) The color of the plastic

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## DEPARTMENT OF SCIENCE & HUMANITIES

### **ASSESMENT SHEET-VALUE ADDED COURSE**

"Design & Testing of Bio Degradable Plastics in Chemistry"

### From 11.03.2024 to 16.03.2024(6days)

### **Duration:36 Hours**

Sind         Reg No.         Name of the Student         Vert         Attendated         OVE-NICO TEST         OVE-NICO TEST         OVE-NICO TEST         OVE-NICO           1         732423103001         SUIANIA         UCIVIL         36         1000         18         722         80%         100           2         732423104003         BIINAYA.A         UCIVIL         36         100         18         72         86%         100           3         732423104003         BIINAYA.A         UCIVIL         36         100         18         72         76%         75%         86%         100         18         72         76%         76%         76%         76%         76%         76%         75%	S.No								
Reg No.         Name of the Student         Variation of the Student         Variation of the Student         No. of Hours         Attendance Score         No. of Correct         MCQ           732423103001         SUJANA         1/CIVIL         36         100         18         72           732423103001         SUJANA         1/CIVIL         36         100         18         72           732423104002         ABINAYAA         L/CSE         33         90         19         72           732423104002         ABINAYAA         L/CSE         33         90         19         72           732423104003         ARULJOTHLP         L/CSE         33         90         19         76           732423104003         ARULATA         L/CSE         33         90         19         76           732423104003         ARULATILP         L/CSE         30         80         19         76           732423104013         BALAJIM         L/CSE         30         80         19         76           732423104013         BALANAM         L/CSE         30         80         19         76           732423104013         BALANAM         L/CSE         30         80         19 <td< th=""><th>S.No</th><th></th><th></th><th>:</th><th>Attenda</th><th>nce Details</th><th>VAC-MC</th><th>Q TEST</th><th>OVERALL</th></td<>	S.No			:	Attenda	nce Details	VAC-MC	Q TEST	OVERALL
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732423104002       ABINAYA.A       UCSE       33       90       19       76         732423104003       ABINAYA.S       UCSE       30       80       18       72         732423104003       ABINAYA.S       UCSE       30       80       19       76         732423104003       ARULJOTHL.P       UCSE       30       80       20       80       50         732423104003       BALAILM       UCSE       30       90       19       76         732423104013       BALAILM       UCSE       30       90       19       76         732423104013       BALAILM       UCSE       33       90       19       76         732423104013       BALAILM       UCSE       33       90       19       76         723423104013       ELAVARASANR       UCSE       36       100       19       76         772423104013       ELAVARASANR       UCSE       30       90       19       76         772423104013       ELAVARASANR       UCSE       30       90       19       76         772423104013       ELAVARASANR       UCSE       30       90       19       76         7724231040101       <	•	732423103001	SUJAN.A	I/CIVIL	36	100	18	17	36
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### **ASSESMENT SHEET-VALUE ADDED COURSE**

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			Year/ Branch	No. of Hours Attended	Attendance Score (100)(A)	No. of Correct Answers	MCQ Score(100) (B)	<ul> <li>&gt;Core</li> <li>(100)</li> <li>(50%, of A)</li> <li>+50% of B)</li> </ul>
15.	732423104020 KANIKA.V	KANIKA.V	I/CSE	33	06	19	76	83
16.		732423104021 KARTHIKA.G	I/CSE	33	06	19	76	5
17.		KASTHURI.S	I/CSE	36	100	19	26	K\$
18.	732423104023 KAVIYA.R	KAVIYA.R	I/CSE	30	80		5 F	*
19.		MAGESH.S	I/CSE	36	100	17	3	- GP
20.		732423104025 MADHUMITHA.K	I/CSE	33	06	19	92	5
21.	732423104031	PRABAKARAN.S	I/CSE	36	100	19	ŧ	K.
22.	732423104032 PRABU.A	PRABU.A	I/CSE	36	100	18	r F	and and a
23.		732423104034 PRIYADHARSHINI.P	I/CSE	36	100	12	as as	63
24.	-	732423104035 RAJESHKANNA.G	IVCSE	33	06	10	2	5
25.	732423104036 RAMYA.S	RAMYA.S	I/CSE	33	06	1	3	12
26.		732423104037 RAVISHANKAR.K	I/CSE	30	80	50	08	40
27.	732423104038 SACHIN.R.S	SACHIN.R.S	I/CSE	36	100	18	: f:	4
28.		732423104039 SAMIKSHA.V	I/CSE	33	06		×	E E
29.		732423104040 SIVARANJANI.K	IVCSE	36	100	61	*	3
30.		SUGUNA.K	IVCSE	30	80	ST	f1	F
31.	-	732423104042 VIGNESHWARAN.T	I/CSE	30	80	17	Z	2
32.	732423104043 VIJAY.R	VIJAY.R	I/CSE	36	oth		f!	4
				Dr.M.VIJAN	Dr.M.VIJAYAKUMAR WE, Ph.D. PRINCIPAL	-Orta		
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### **ASSESMENT SHEET-VALUE ADDED COURSE**

S.No.	Re <sup>o</sup> No.	Name of the Student		Attenda	Attendance Details	VAC-MCQTEST		OVERALL
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33.	732423104044	VIKRAM.V	IVCSE	30	80	20	08	50
34.	732423104046	VISHAL.T	IVCSE	33	6	61	36	2
35.	732422104026	LOGESWARAN.K	IVCSE	33	06	61	76	5
36.	732423105001	AKASH.S	IVEEE	36	100	61	36	
37.	732423105002	RAJARETHINAM.M	IVEEE	36	100	18	2 8	20
38.	732423105003	SANTHOSHKUMAR.M	IVEEE	33	06	10	76	8 5
39.	732423105004	SHANMUGAM.A	IVEEE	30	80	81	5 6	1 2
40.	732423105005	SIVAGANAPATHY.V	I/EEE	33	06	0	35	0
41.	732423105006	THAYOOB.S	IVEEE	30	en la	00	00	2
42.	732423106001	ABINAYA.S	IVECE	30	02	07	00	80
43.	732423106003	AJAYKUMAR.S	IVECE	33	00	0.7	80	80
44.	732423106004	AJMEERKAJA.S	IVECE	33	06	61	76	83
45.	732423106005	BALAJI.M	IVECE	36	06	6	76	83
46.	732423106006	BALAJOTHI.K	VECE	33	100	19	76	88
47.	732423106007	DHARISH.N	1/FCF	10	06	19	76	83
48	732423106008	DHARSHAN A	1/FCF	36	80	21	84	82
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51.	732423106012	KOWSAL YA.R	I/ECE	33	100	18	12	86
52.	732423106013	MANIKANDAN.P	I/ECE	30	06	19	76	83
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VAC Coordinator M.Q.

Dr.M.VIJAYAKUMAR ME., Ph.D., PRINCIPAL SASURIE COLLEGE OF ENGINEERING, Vijayamangalam - 638 056, Tirupur (Dt).

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