



(An Autonomous Institution - AFFILIATED TO ANNA UNIVERSITY, CHENNAI)

S.P.G.Chidambara Nadar - C.Nagammal Campus
S.P.G.C. Nagar, K.Vellakulam - 625 701 (Near VIRUDHUNAGAR).

DEPARTMENT OF POLYMER TECHNOLOGY

VALUE ADDED COURSE

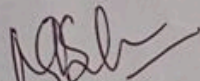
ON

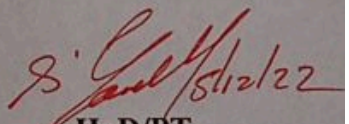
TESTING OF PLASTIC MATERIALS AND PRODUCTS

DATE: 22.08.2022 TO 26.8.2022

2020-2024 BATCH

No. of Participants: 5


Coordinator

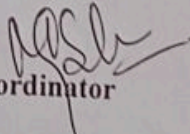

HoD/PT

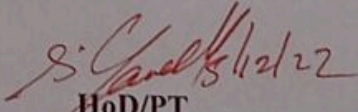
VALUE ADDED COURSE

ON

TESTING OF PLASTIC MATERIALS AND PRODUCTS

S.NO	PARTICULARS	DETAILS
1	Academic Year	2022-23
2	Regulation	2020
3	Department	Polymer Technology
4	No of Credits	2
5	Category: Theory/hands on/lab/skill based	Hands on training
6	Name and Details of the Joint organization	CIPET: Centre for Skilling and Technical Support (CSTS)
7	Resource person details	Nalini Renganathan, T, Technical Officer, CIPET
8	Period (From-To)	22.8.22 to 26.8.22
9	Venue	CIPET, Madurai


Coordinator


HoD/PT



Submitted to the SECRETARY for approval through the PRINCIPAL

PT

Book No.

SL No. **31**

Date 16.02.2022

- 1) Name of the object / item / service : Value added course for IIIrd Sem student
- 2) Purpose (Replacement / upgradation / New) or (Participation / Presentation) or (Service / Renewal / New) : Training program on 'plastics Testing & Techniques' - 21/02/22 to 26/02/22
- 3) Specifications : CIPET Madurai (6 days)
No of students 5 + accompanying staff (01)
- 4) Approx. Value per object / item (Min. Quote / Reasons for Higher Quote) : Rs 2000 + 18% GST (per head)
= Rs 2360/- (per head)
- 5) No. of Quotations Received : 2360 x 5 = Rs 11,800
- 6) No. / Type of objects / items / service needed : Encl Quotation.
- 7) Total Value (incl. tax) : Rs 11,800

Signature of Faculty

Hon

PRINCIPAL

OFFICE USE

- 1) Budget allotted : Value added course
- 2) Amount committed / Spent so far : Rs 2360 per head
- 3) Balance available :

OM

RECURRER

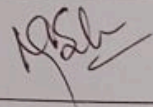

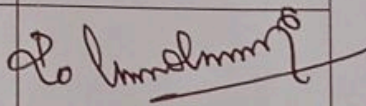
Secretary

Department of Polymer Technology

Circular

19.8.22

The Department of polymer technology is planned to conduct a value-added course in **Testing of Plastics Materials and Products** in Associated with CIPET, Madurai to all the third-year students of PT department dated form 22.8.22 to 26.8.22. In this regard, the following staffs are assigned to accommodate with the students with their respective dates.

S. No	Staff Name and Designation	Date	Signature
1	Dr.M.G.Sri Bala, Assistant Professor.	22.8.22 23.8.22	
2	Er. S.Sivakumaravel, Assistant Professor	24.8.22 25.8.22	
3	Dr. R.Baskaran, Associate Professor	26.8.22	

The venue and timing of the programme is

Venue:

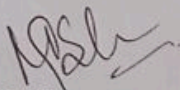
CIPET:Centre for Skilling and Technical Support (CSTS)

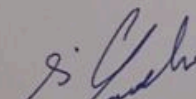
[An ISO-9001:2015 certified, NABL accredited & BIS recognized Testing laboratory & Accredited by NABCB as Type A inspection Body]

SIDCO Industrial Estate

Adjacent to Post office, K Pudur, Madurai-625007

Timing: 9.00 am to 5.00 pm


Co-Ordinator


HoD/PT

VALUE ADDED COURSE

VA103 TESTING OF PLASTIC MATERIALS AND PRODUCTS 30 hours

UNIT I	STANDARDS AND SPECIMEN PREPARATION STANDARDS	6
	Standards - BIS, ASTM, ISO, SPE, SPI, UL. Preparation of test specimen by various techniques for thermoplastics, conditioning and test atmospheres	
UNIT II	MECHANICAL PROPERTIES	6
	Tensile, compression, flexural, impact, abrasion and hardness – hands on training	
UNIT III	THERMAL PROPERTIES AND CHARACTERIZATION	6
	Vicat softening temperature, heat distortion temperature, coefficient of expansion, FTIR, DSC and TGA - hands on training	
UNIT IV	OPTICAL AND OTHER PROPERTIES	6
	Transparency, haze, gloss, Environmental stress crack resistance (ESCR) - weathering and chemical resistance, aging, ozone resistance, - Hands on training	
UNIT V	TESTING OF PRODUCTS	6
	Testing of Products as per IS standard -Plastic films, pipes, foams and containers - hands on training	

OUTCOMES:

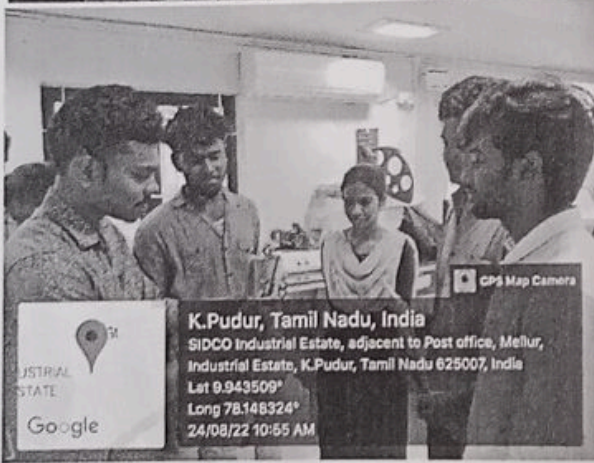
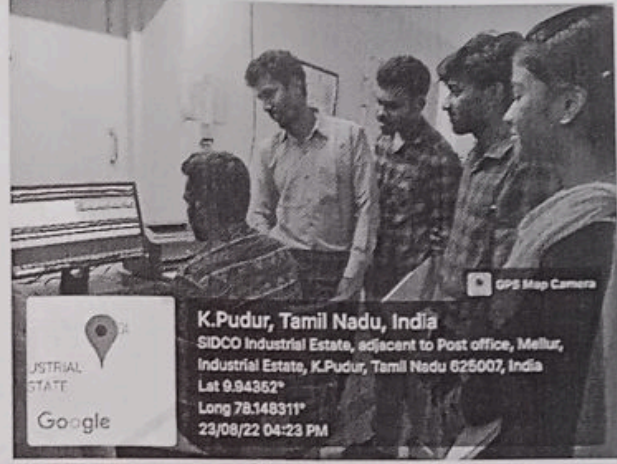
Upon successful completion of this course, students will be able to

- CO1 : Have the knowledge of standard and conditioning of polymers
- CO2 : Demonstrate the mechanical testing of polymer
- CO3 : Evaluate the thermal properties and characterization of polymers
- CO4 : Describe the optical properties and weathering of polymers
- CO5 : Develop the skills in testing of polymer products.

CO. No.	POs												PSOs	
	1	2	3	4	5	6	7	8	9	10	11	12	1	2
CO.1	H	M	L		M							H	H	H
CO.2	H	M	L		M							H	H	H
CO.3	H	M	L	L	M							H	H	H
CO.4	H	M	L	L	M							H	H	H
CO.5	H	M	L	L	M							H	H	H

Department of Polymer Technology

In association with CIPET, Value added course on 22.8.22 to 26.8.22



[Signature]
 Co-ordinator

[Signature]
 HoD/PT

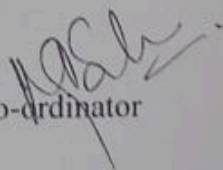
Department of Polymer Technology
Value Added Course on Testing of Plastics Materials and Products
In association with CIPET, Madurai
2022-2023 (Odd Semester)

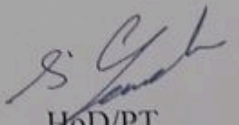
Online Examination Schedule:

Date of the Exam	Timing
14.10.22	3.00 PM to 4.00 PM

Test Link:

<https://forms.office.com/r/9dYgdYiryZ>


Co-ordinator


HoD/PT

Review: Department of Polymer Technology

Respondent

5

MOHAN PRASATH.M(PT)

22:28

Time to complete

52/60

Points

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

1. which type of material has low modulus and low yield stress but very high elongation and high stress at break

- soft & weak materials
- soft & tough materials ✓
- hard & brittle materials
- hard & strong materials

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

2. Select the formula for Tensile strength at break?

- difference in stress / difference in corresponding strain
- Maximum load recorded / cross sectional area
- cross sectional area / force (load)
- load recorded at break / cross sectional area ✓

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

3. Drop impact test is mainly used for

- Tyres
- Pipes ✓
- Tubes
- Rod

More options for Responses

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

4. Fatigue endurance curve, which represents stress versus number of cycles to failure, also known as the

- S-W curve
- S-N curve ✓
- S-V curve
- S-U curve

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

5. Inspection and analysis of machinery or components without affecting the operation or the properties of the subject.

- Destructive Testing
- Nondestructive Testing (NDT) ✓
- Quality Testing
- Inspection

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

6. Dielectric strength of an insulating material is calculated as

- Breakdown voltage/cross sectional area
- Cross sectional area / breakdown voltage
- Breakdown voltage/Thickness ✓
- Thickness/ Breakdown voltage

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

7. What are the Test methods adopted For Pipes?

- Hydrostatic pressure test
- Impact strength
- Effect of water
- All above ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

10/14/22, 3:43 PM

8. Which material undergoes brittle fracture?

- PS ✓
- PP
- PVC
- PET

✗ **Incorrect** 0/2 Points0 / 2 pts
Auto-graded

9. From the following, select the suitable test for packaging applications?

- Coefficient of friction ✓
- burst pressure test
- abrasion resistance
- De-Mattia flex resistance

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

10. Which instrument is used to measure heat required to maintain the same temperature in the sample versus an reference materials

- DSC ✓
- DTA
- TGA
- TMA

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

11. Heat dissipation is most inefficient in

- Emulsion polymerization
- Solution polymerization
- Bulk polymerization ✓
- Suspension polymerization

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

12. Weight average molecular weight can be determined by

- Osmometry
- Ebulliometry
- End group analysis
- Light scattering ✓

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

13. The unit of viscosity of a polymer is expressed as

- Pa.s ✓
- Pa/s
- Pa/s²
- Pa/s³

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

14. The two characterization techniques which can be used to determine degree of crystallinity of a polymer are

P. Scanning electron microscope

Q. Thermogravimetric analysis

R. Wide angle X-Ray Diffraction

S. Differential Scanning calorimetry

- P&R
- Q&R
- R&S ✓
- Q&S

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

15. Which type of instrument is used to measure the ease of **flow** of a thermoplastic polymer melts?

- FTIR
- DSC
- TGA
- Melt Flow Index ✓

10/14/22, 3:43 PM

2 / 2 pts
Auto-graded

✓ Correct 2/2 Points

16. What is the young's modulus of a material?

- Compressive stress / Shear strain
- Tensile Stress / Tensile Strain ✓
- Shear stress / Shear Strain
- Tensile stress / Shear stress

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

17. Suggest suitable plastic material for manufacturing of Air conditioner front cover

- ABS ✓
- PS
- PE
- PMMA

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

18. Mooney Viscosity is expressed as

- M L1+4 reading at 100 degree C. ✓
- M L1+3 reading at 100 degree C.
- M L1+2 reading at 100 degree C.
- M L1+1 reading at 100 degree C.

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

19. In flexural test the Maximum fiber stress is

- 2PL/2BD²
- 3PL/2BD² ✓
- 4PL/2BD²
- 4PL/4BD²

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

20. Melt flow rate is equal to

- $(42 \cdot L \cdot t) / d$
- $(42 \cdot L \cdot d) / L$
- $(426 \cdot L \cdot D) / t$ ✓
- $L \cdot D / t$

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

21. Steadily increasing hydrostatic pressure is applied to a length of hose until rupture occurs and the pressure is recorded is known as

- Acetone Immersion Test
- Burst Strength Test ✓
- Resistance to H₂SO₄
- Impact test

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

22. In VST flat-ended needle of 1-mm² circular cross section will penetrate a thermoplastic specimen to a depth of ____

- 4 mm
- 3 mm
- 2 mm
- 1 mm ✓

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

23. What kind of materials are used to measure the Shore A durometer Hardness?

- plastic
- rubber ✓
- composites
- metals

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

10/14/22, 3:43 PM

24. ISO stands for

- International Organization For Standardization ✓
- Intranational Organization of Standerdization
- National Organization For Standerdization
- Indian Organization For Standerdization

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

25. IR spectroscopy also known as -----spectroscopy

- Stretching
- Bending
- Vibrational ✓
- Scissoring

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

26. ASTM stands as _____

- American Society for Testing and Materials ✓
- American standard for Testing and Materials
- Asian Society for Testing and Materials
- American Society for Testing and Machine

✓ **Correct** 2/2 Points2 / 2 pts
Auto-graded

27. Haze is the _____ appearance of the materials

- Bright appearance
- Dark appearance
- Cloudy appearance ✓
- Dim appearance

✗ **Incorrect** 0/2 Points0 / 2 pts
Auto-graded

28. In HDT the standard test bar deflect -----in

- 0.010
- 0.20
- 0.10 ✓
- 0.020

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

29. Which polymer has poor chemical resistance?

- PE
- PS
- PP
- PC ✓

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2 / 2 pts
Auto-graded

30. _____ is the point on a stress-strain curve that indicates the limit of elastic behavior and the beginning of plastic behavior.

- Yield point ✓
- Break point
- Shear rate
- Shear strain

Review: Department of Polymer Technology

Respondent

3 SELVAKUMARJ(PT)

29:43

Time to complete

42/60

Points

✘ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

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✘ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

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✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

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More options for Resp

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2 / 2 pts
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0 / 2 pts
Auto-graded

7. What are the Test methods adopted For Pipes?

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✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

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2 / 2 pts
Auto-graded

10/15/22, 10:47 AM

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- Coefficient of friction ✓
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2 / 2 pts
Auto-graded

10. Which instrument is used to measure heat required to maintain the same temperature in the sample versus an reference materials

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✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

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✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

12. Weight average molecular weight can be determined by

- Comonomer
- Etullionmer
- End group analysis
- Light scattering ✓

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

13. The unit of viscosity of a polymer is expressed as

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✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

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- P&R
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2 / 2 pts
Auto-graded

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10/15/22, 10:47 AM

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2 / 2 pts
Auto-graded

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2 / 2 pts
Auto-graded

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2 / 2 pts
Auto-graded

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- 4 mm
- 3 mm
- 2 mm
- 1 mm ✓

✓ **Correct** 2/2 Points

2 / 2 pts
Auto-graded

23. What kind of materials are used to measure the Shore A durometer Hardness?

- plastic
- rubber ✓
- composites
- metals

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

24. ISO stands for

- International Organization For Standardization ✓
- Intranational Organization of Standerdization
- National Organization For Standerdization
- Indian Organization For Standerdization

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

25. IR spectroscopy also known as -----spectroscopy

- Stretching
- Bending
- Vibrational ✓
- Scissoring

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

26. ASTM stands as _____

- American Society for Testing and Materials ✓
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- Asian Society for Testing and Materials
- American Society for Testing and Machine

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

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- Dark appearance
- Cloudy appearance ✓
- Dim appearance

✗ Incorrect 0/2 Points

0 / 2 pts
Auto-graded

10/15/22, 10:47 AM

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- 0.010
- 0.20
- 0.10 ✓
- 0.020

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

29. Which polymer has poor chemical resistance?

- PE
- PS
- PP
- PC ✓

✓ Correct 2/2 Points

2 / 2 pts
Auto-graded

30. _____ is the point on a stress-strain curve that indicates the limit of elastic behavior and the beginning of plastic behavior.

- Yield point ✓
- Break point
- Shear rate
- Shear strain

Department of Polymer Technology

Attendance Sheet – Value added Course

S.No	Roll No	Student Name	22.8.22	23.8.22	24.8.22	25.8.22	26.8.22
1	20UPT001	VIGNESH.R	R. Vignesh	R. Vignesh	R. Vignesh	R. Vignesh	R. Vignesh
2	20UPT002	KATHIRVEL.M	M. Kathirvel	M. Kathirvel	M. Kathirvel	M. Kathirvel	M. Kathirvel
3	20UPT003	MOHAN PRASATH.M	M. Mohan	M. Mohan	M. Mohan	M. Mohan	M. Mohan
4	20UPT004	SELVA KUMAR.J	J. Selva	J. Selva	J. Selva	J. Selva	J. Selva
5	20UPT005	SUREKA.P	P. Sureka	P. Sureka	P. Sureka	P. Sureka	P. Sureka
Staff Signature			[Signature]	[Signature]	[Signature]	[Signature]	

Co-Ordinator

[Signature]
HoD/PT

Department of Polymer Technology
Value Added Course on Testing of Plastics Materials and Products
In association with CIPET, Madurai
2022-2023 (Odd Semester)

14.10.22

Mark Statement

Regulation: 2020

Year: III PT

Semester: V

S.No.	Roll Number	Student Name	Internal Marks (40)	External Marks(60)	Total Marks (100 Marks)
1	20UPT001	VIGNESH.R	34	44	78
2	20UPT002	KATHIRVEL.M	32	44	76
3	20UPT003	MOHAN PRASATH.M	36	52	88
4	20UPT004	SELVA KUMAR.J	32	42	74
5	20UPT005	SUREKA.P	34	48	82

Co-Ordinator

HoD/PT

Dean-Academics

R.S - Bar
14/12/22

Department of Polymer Technology
 Value Added Course on **Testing of Plastics Materials and Products**
 In association with **CIPET, Madurai**
2022-2023 (Odd Semester)

14.10.22

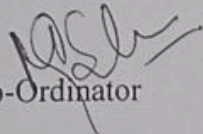
Internal Mark Assessment

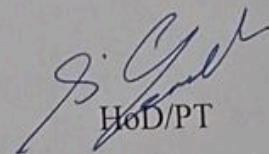
Regulation: 2020

Year: III PT

Semester: V

S.No.	Roll Number	Student Name	Title of the Presentation	Internal Marks			Total Marks (40 Marks)
				Technical Content (20Marks)	Communication (10Marks)	Viva-voce (10Marks)	
1	20UPT001	VIGNESH.R	Opacity Test	19	8	7	34
2	20UPT002	KATHIRVEL.M	Flexural test	19	7	6	32
3	20UPT003	MOHAN PRASATH.M	Impact test	20	8	8	36
4	20UPT004	SELVA KUMAR.J	Carbon Black Dispersion	19	7	6	32
5	20UPT005	SUREKA.P	HDT & VSP	20	7	7	34


 Co-Ordinator


 HoD/PT

Feedback on Value added Course - Testing of Plastic Materials and Products

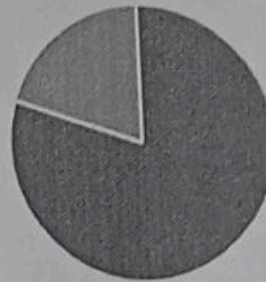
5
Responses

00:24
Average time to complete

Active
Status

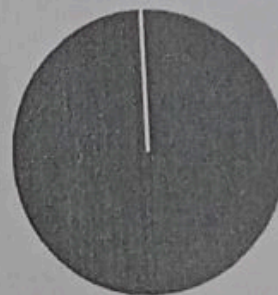
1. Are you satisfied with the content delivery of the Resource Person?

- Extremely good 4
- Good 1
- Poor 0



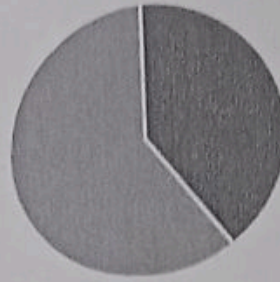
2. How much interesting in the Hands on training session?

- Extremely good 5
- Good 0
- Poor 0



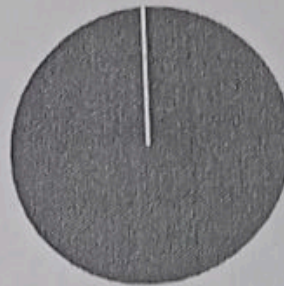
3. Are you satisfied with the venue and duration of the programmed?

- Extremely good 2
- Good 3
- Poor 0



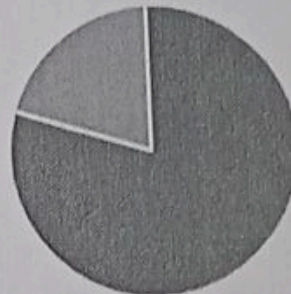
4. Did the resource persons cleared your doubts?

- Extremely good 5
- Good 0
- Poor 0



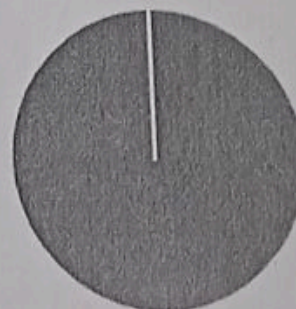
5. How much this course was useful from the knowledge and information point of view?

- Extremely good 4
- Good 1
- Poor 0



6. Overall effectiveness of the value added course?

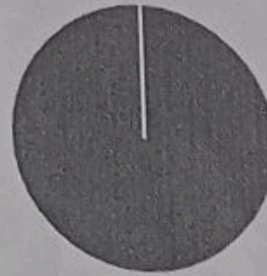
- Extremely good 5
- Good 0
- Poor 0



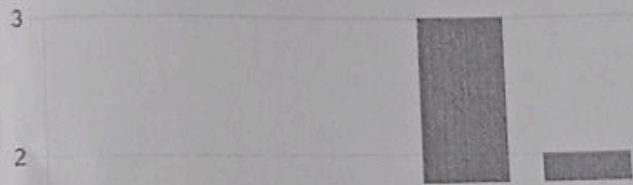
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7. Did the hands on training helpful to met the industrial requirement?

- Extremely good 5
- Good 0
- Poor 0



8. Over all rating of the programme



Feedback for
Value added course in CIPET.

I am M. Mohan prath (2007003) from department of Polymer Technology. Me and my classmates attended a value added course on TESTING of polymers in CIPET, Madurai. from 21-7-22 to 26-7-22. In the value added course, we gained lots of knowledge on material testing and operating testing machines, sample preparation. It's very useful to know and practically working on with the new machinery. with a staff in CIPET. The staff in the CIPET taught us basic and recent requirements. The staff and the workers are do friendly and very informative for us. In CIPET, they provided lunch for us, it's quiet good and clean. From there, we get more exposure and contact with other students. It very useful. Overall, the value added course is very useful and informative for all of us.

Feedback for value added course:

I am Vignesh.R, 200p1001 from department of polymer technology. This is the feedback about the value added that I have attended in VJPT, Madurai from the date of 21.08.22 to 26.08.22 or this semester. This value added course is very useful to me. By this value added course we have learned about many equipments and processes on polymeric materials. And we also practically learned, done and applied the processes, we have done the experiments manually on our own. It has been very useful to us.

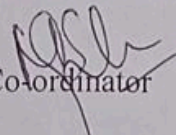
Department of Polymer Technology
Value Added Course on **Testing of Plastics Materials and Products**
In association with **CIPET, Madurai**
2022-2023 (Odd Semester)
Report on value-added course

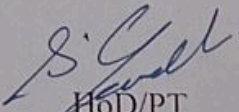
The Department of polymer technology conducted a Value added course on **Testing of Plastics Materials and Products** in association with CIPET at **Centre for Skilling and Technical Support**, CIPET, Madurai during the period of 22.8.22 to 26.8.22 for III year Polymer Technology Students.

The course was handled by CIPET faculty members. Dr. R. Nalini, delivered a detailed lecture on the basics of polymer science, polymeric materials and various testing methods like thermal testing like DSC, TGA, mechanical testing like tensile, flexural, compression, and other testing like coefficient of friction, carbon black analyzer and so on. Following that Mr. Sasi, Testing incharge, CIPET handled the practical sessions and hand on training in product testing and material testing.

They provide various pipe and film samples to the students and ask them to examine the samples' mechanical and thermal qualities in order to grade the students. Each student completes the testing separately, records the results, computes the results, and submits a report.

This would enable students to take polymer and product testing on their own and increase their chances of finding employment in core industries.


Co-ordinator


HOD/PT