

### SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY



Dindigul - Palani Highway, Dindigul - 624 002.

### Institution's Innovation Council

## Design Thinking to Product Development workshop

on

27.12.2022

	INDEX	
SI.NO	CONTENT	PAGE NO
1	Circular	2 L
2	Brochure	a
. 3	Participants List	3
4	Report	6
5	Feedback	17
6	Photos	23

Faculty Incharge

President/NC

Principal





### SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY

Dindigul - Palani Highway, Dindigul - 624 002.

Website: www.ssmiet.ac.in

### Institution's Innovation Council

### CIRCULAR

21.12.2022

One day Workshop on "Design Thinking to Product Development" is scheduled to be conducted on 27.12.2022. Henceforth, interested students from all disciplines are requested to attend this workshop and get benefitted.

### Resource Person:

Dr.S.Vinodh

Professor

Department of Production Engineering

National Institute of Technology

Tiruchirappalli

Date & Time: 27.12.2022 & 10.00 AM - 4.30 PM

Venne: Seminar Hall-1.

Dr.K. Vinoth Rumar

Professor/ECE

President/IIC

MSN.J Divya, AP/CSE

Mr M. Selwin, AP/Mech.

Coordinator /IIC

Principal Principal



## SS INSTITUTE OF ENGINEERING AND TECHNOLOGY

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

Dindigul-Palani Highway, Dindigul - 624 002, Tamilnadu

### Institution's Innovation Council



Organizes

Workshop on

### Design Thinking to Product Development

Date: 27.12.22(Tuesday) | Time: 10:00 a.m to 04:30 p.m.

Venue: Seminar Half - 1



### **Resource Person**

Dr. \$.Vinodh

Professor in Department of Production Engineering, National Institute of Technology, Trichirapalli.

President / IIC

Dr. K.Vinoth Kumar, Prof/ECE

**Prinicpal** 

Co-ordinators / IIC :

Mrs. N.J Divya, AP/CSE

Dr. D. Senthii Kumaran

o-oralisators / ito .

Mr. M. Selwin, AP/Mech



Dindigul - Palani Highway, Dindigul - 624 002

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

### Institution Innovation Council

Name of the Program:

Workshop on "Design Thinking to Product Development"

Dr.S.Vinodb,

Name of the Guest:

Professor, Department of Production Engineering,

National Institute of Technology.

Tiruchirappalli, Tamil Nadu

Date & Venue: 27-12-2022 & Seminar Hall - 1

Timing: 10.00 a.m. to 04.30 p.m.

### Attendance Sheet

S.No	Register Number Department	Name of the Participant	Signature of the Participant
ħ.	22RAIO10 (A1-DS)	R-Moteummed Nowfal	Rodrewfol
2 -	22RCS014 (CSE)	A.T. Harvisha	A. J. Hannelshnow
3	99 8 IME 001 (MFCH)	A Abdul Rahuman	Roll
L	22 RMEOO7 CMECH		S. kaā
5-	22 8 ETT 02 4 ( 1080)	Reviouenth Balasi	Rivasanth Balati
6	DO ROBEOUS OMECH)	v-Doniel RAT	v-Dariel RAT
7	22 RECO07 (ECE)	v. AsavinthKumar	V. Mavinthkumox
8	22 REC 032 (ECF)	R. Golfey rooth	R-Gokul north
9.	22REC-034 (5C5)	S. GERTNATH.	Cop. Nova J.
lo .	22 REC 0 17 (ECE)	S. Clement	S. Clement.
Ha	22RME012(MECH)	& R. wahalishoro	₩0,1.
12.	22 RM E020 (MECH)	V. Sthish Kumar	Ut Still Kin



Dindigul – Palani Highway, Dindigul – 624 002

(Approved by AICTE, New Delbi, Affiliated to Anna University, Chennai, Accredited by NAAC)

סַעו∙ 2	Department	Warre	Signature.
13!	22 RMEOJO (MECH)	An I maranca	Ø.1.0
14.	2) RMECRECHETH)	Residlen	R. Sudran
16.	22 RECON ((CE)	M. Natrula	les:
16.	22 RFC046 (ECF)		M Harthreye
17.	22 REC 053(ECE)	K-Lingersh Ferran	K. Lingerhamer
19.	22 PFC 0 81(ECF	07 Raam Prajanth	P.7 - Pasum P-maan
19 -	22 RB3003(1913)	J. Dhanush Parali	J. Dlud.
20		Monish Babu VM	Mad
وافي		D. SUNDERSTRIKEROOM.	Post.
22)	22 R(S 48 (CSE)	V. SARATHY	I don'thy
23)	1960020 (CBF)	Swithkomaniks	SouthElles
		Gr. Sattrish Kasthi Or.	8 Out
25)	COIR POOL TURE	Mohammad Adsold	at together
		Ms. sambat Kuman	Blomfof
	27 RBS 02 8(CBRE)		1. Harm Box - H
28)	038(GODA (CSE)	J. Kaleel Shamed	5.100
	22RECOSA(ECE)		dey-
-	22 REC 096 (±CE)	R.SHARON	PAP
		S. Kausal Neyan	8. Lour Negr
33)	22 KECB3T (60 E)	K. Hankonstman N. Malanet DVAIS	M. Hould
101	22/12/12/19/9	O. MOI WILE DO CONTR	Unio I N.



Dindigul - Palani Highway, Dindigul - 624 002

(Approved by AICTE, New Delbi, Affiliated to Anna University, Chennai, Accredited by NAAC)

34-	22 RECOGIE	MUTHUKAMA TCHA.K	R.F.
35		THANIAL DISHOSHA-R	
36.		P.SHAM SANTHOSH	
37.	DERECTIS (ECE)	Avodnu paroth	A-Meliny morely
3.8	ARRECIOT (FOE)	H. Sury a humarum	4. Sidnalanahar
29	BARECIAN [ECE]	TR. YOGESH. M.Partina Savathy Rej	TAGILLE
40.	88 E 40 13 (E4E)	M.Partina Sarathy Rej	M. farthe soldo Pg
41.	22RECD30(ECE)	R. GIRIRAJ	Q.G.hus.
42	22RE COON(ECE)	J. Abdul Wahith	JASal walt
43	22RCS 036(CSE		Rakhyanas .
HH.	22 RUS 037 (155)	B. Roshmo. (	J. Pay.
45	22 Res Dat (19)	P Jeya Shn	AN .
46	22 RBS012(CSBS)	V.Madhumitha	Madattar
47	22 R 85011 (\$585)	M. Kaviya takshimi	H-Kaus yalabshmi
48	2.2RC\$038(C\$E)	B. Rithikan	&- Rithibaa
49	22RCS 034 (CSF)	S. Briganga Saleth Mary	S-Bryanec
50	22 RUSO25 (95E)	Gio Kanisha	Karistall
51	22 RECOTI (ECE)	Pagalavathii R	Q. Rogalcuathii
52	22RA1015(BIDS	R-Recitani	R-Pootani
53.	22RCB 009 (CSE)	J. Daya Dharshini	J. D. Wea Dhasshin
54-	22RCS019(55)	J. Jeevitha	J. Lighal.
চ্চ.	228A1026(A108)	M. Varkhe	M.Q.L
56.	22R FE 003 (EEE)	L'yacious Loursana	Lower
275		. 00	4



Dindigul - Palani Highway, Dindigul - 624 002

(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

51.	22 REC 103 (E/E)	K. Sublagatha	kolubby.
58	22 RE CO 95 (ErE)	1. 3 hui Shadha	Proof.
59	22 REC 102 (ECE)	S. Sownerga Varthini	Industry Park
60	22 RECHE (ECE)	3. Upamosseo.	8 Maryanses
61	902121114022/MEH	) J. SANTHOS FI	Stable
62.	9 2212 11140 2 (MECH	) G. Bathya Surys	4. Styr
1.			
	•		

Event In-charge/IIC

President/IIC



### SSM INSTITUTE OF ENGINEERING AND TECHNOLOGY



Dindigul - Palani Highway, Dindigul - 624 002.

### Institution's Innovation Council

### Report

Date: 09/01/2022

One day workshop on "Design Thinking to Product development" was conducted on 27/12/22 in Seminar Hall - 1 for I- Year Students from all Disciplines. Event started with Prayer song at 9.30 a.m. As per the agenda Welcome speech was addressed by Dr C.Sujatha HoD of CSE Department welcomes our honourable Chief Guest Dr S Vinodh, Professor in Department of Production Engineering, National Institute of Technology, Trichy and our beloved students.





Introduction about the chief guest was given by V.P. Rakshitha H. Year CSE Department of SSMIET.

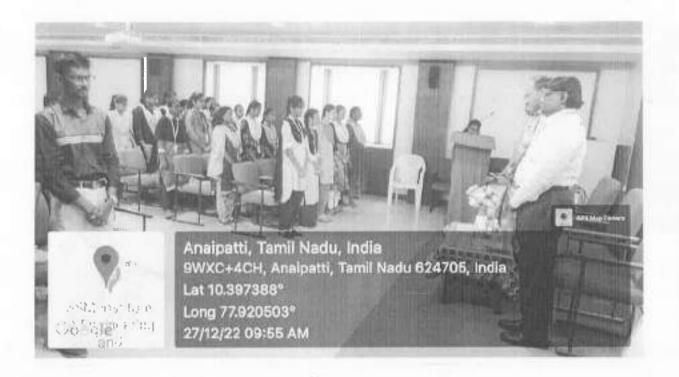


After the addressal by Rakshitha, chief guest Vinodh sir was honoured by Dr G.Sankara Narayanan. HaD of mechanical Department by awarding shield to him.



Then chief guest takes over the session by thanking all members of the HC Cell and the management for providing the apportunity to interact over the students through an HC and finally thanked him through vote of thanks by Ms NJ Divya Event coordinator of HC cell and played putional Anthen.





### Invitation



### SS INSTITUTE OF ENGINEERING AND TECHNOLOGY

Institution's Innovation Council



Ouganites.

Workshop on

### Design Thinking to Product Development

Date: 27-12 77 (Lucaday) | Time | Thilli a.ds to 14,30 p.ds Venue | Seminar Hall : 1

ACL and Cardintly Transfer



### Resource Person

Dr. S. Vicedh

Professor in Department of Productors Espinoscom, Stational Institute of Technology Technologish

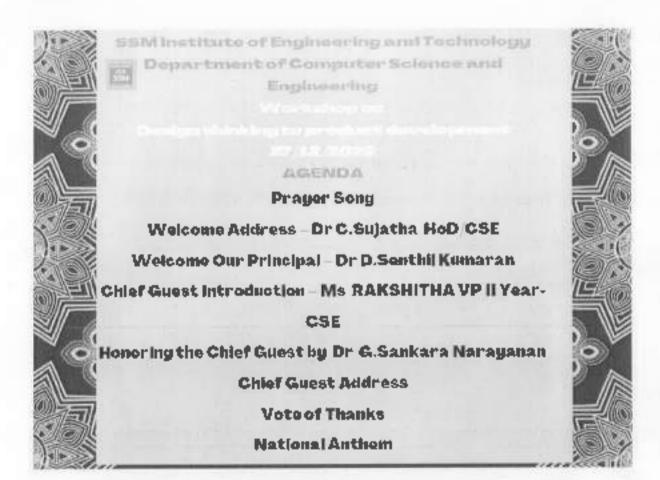
President y HG

Dr. K. Vlooth Konnor and Let

Contribution book 1960

Mrs. N.J Dwyw. J. C. I. Mr. W. Selwin, 1975-0 Primpal Dr. O. Senthii Kumaran

THE THE WASHINGS



Syllabus Coverage:

Morning Session:

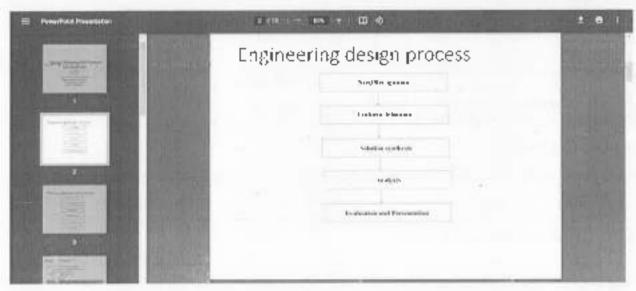
Time: 9.30 a.m to 1.00 p.m.

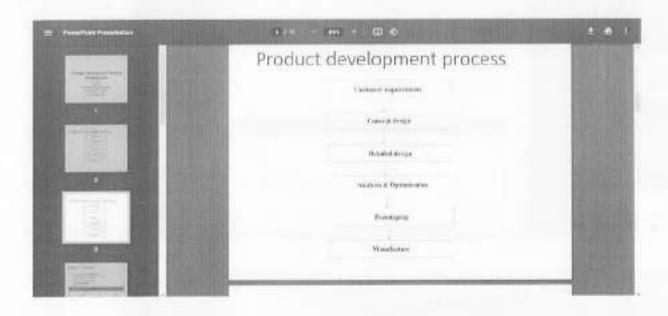
Topics Covered		
Engineering design process		
Product development process		
What is "S-Curve"		
Conducting interviews. Like/Disbke Method		
Establishing Engineering specifications		
Customer requirements/Engineering specifications		

Function modeling basics	
Basic methods : Indocmation gathering and brainsforming	
Fraditional Brainstorming	
Pugh Charts	

Started the session by showing presentation to the students and interacting with the students by asking basic questions on design process to check their depth of knowledge in that field.

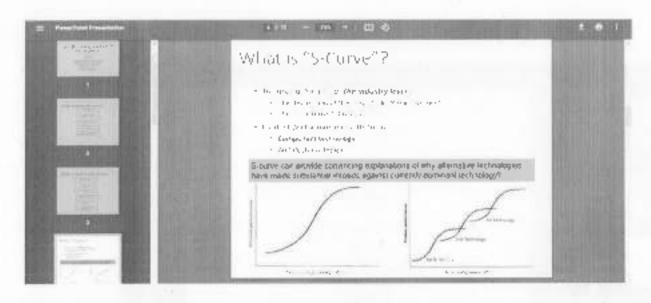


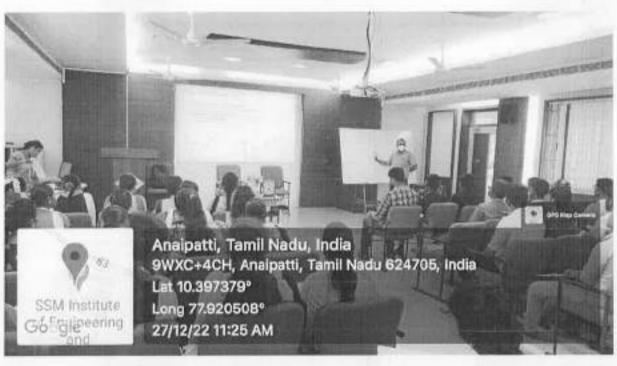


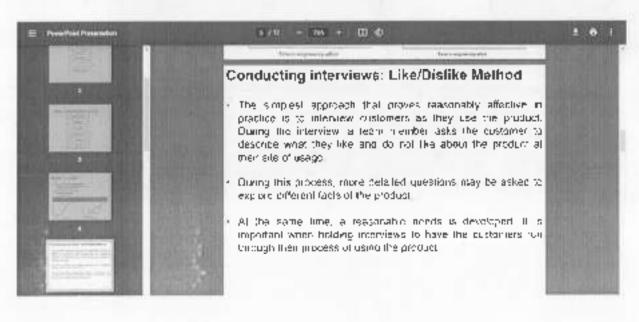


After showing the flowchart of how the requirements transformed into design aspect and how it will be converted into product will be explained in detail and ask few examples in real time with the students

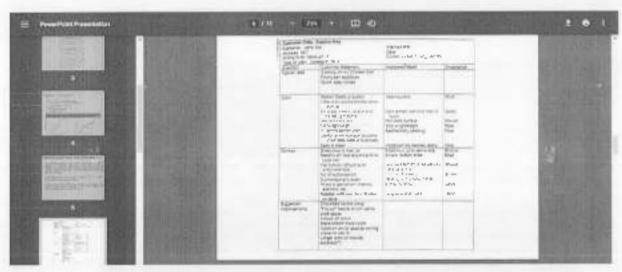


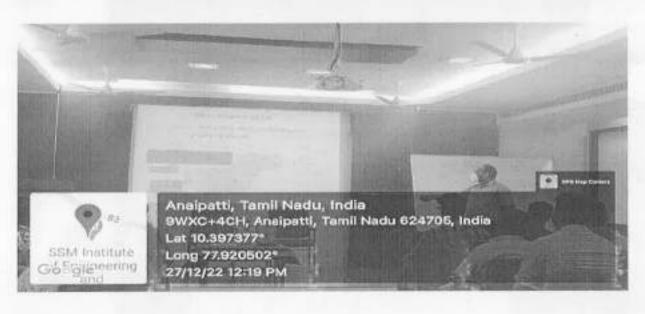


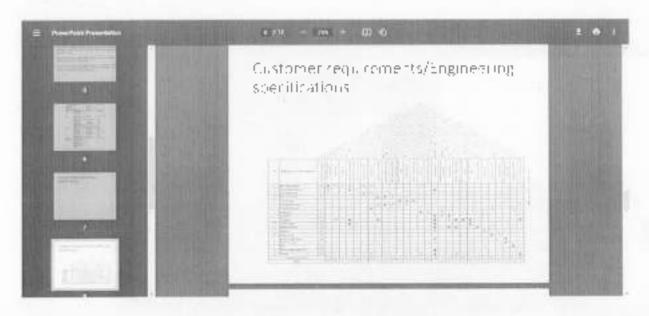




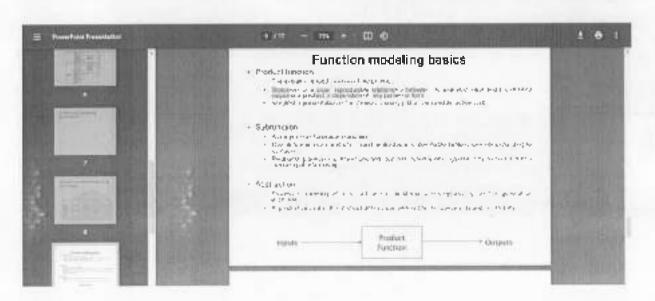


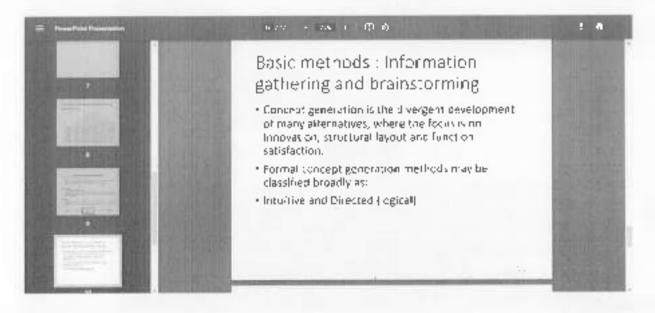


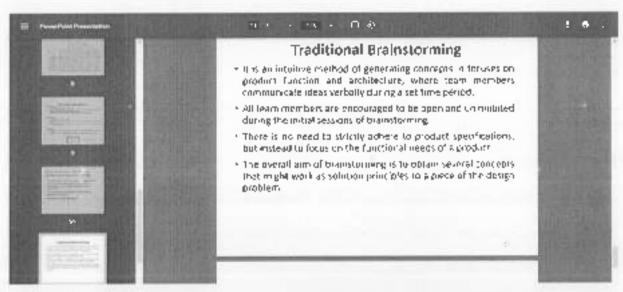


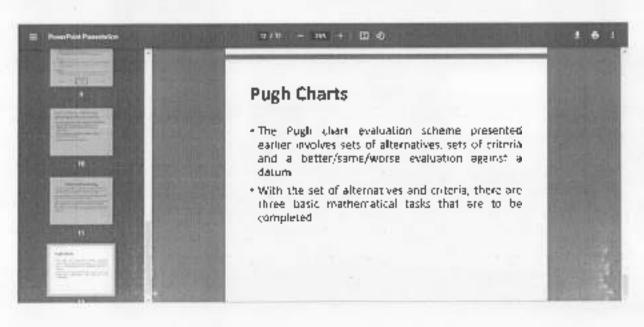


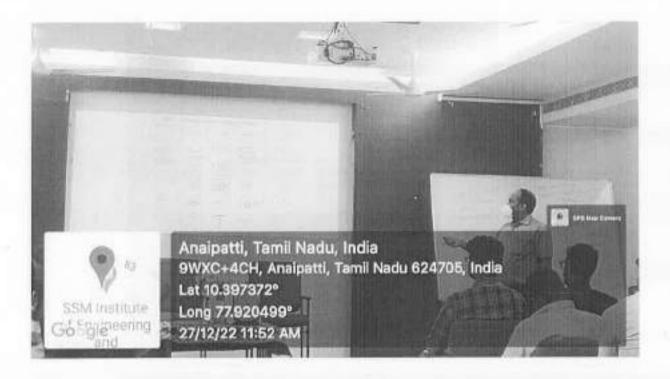












Profally show the morphological analysis chart of each functions we have taken in an hicycle example and showed some solutions also.

### Afternoon Session:

### Timing: 1.30 p.m to 4:30 p.m

Session was started by splitting the 60 students into twelve teams and each with five members in that and form a round table conference for discussing their ideas with their team members.



Each team ichooses their own topic of customer requirements and started to sketch their own design conversion of requirements to product map.



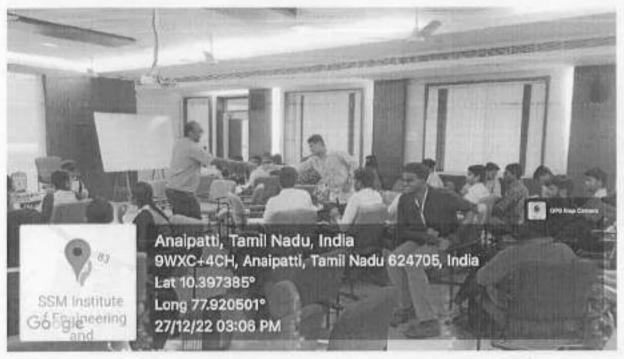
Chief guest shown thier own case study for figuring out how to convert thier ideas into product design like foldable hicycle.



### Quiz Session:

After showing the case study to the students a small quiz session was conducted to recollect all the information gathered from morning session. Those who answered well was appreciated by the chief guest and gifted tien for that students.









### Students Discussing and Sketching Their own Ideas:







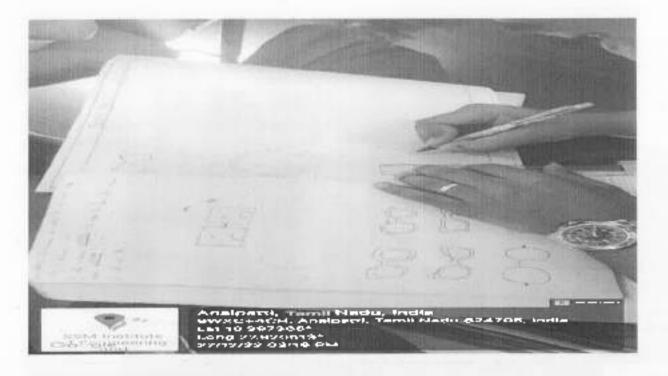


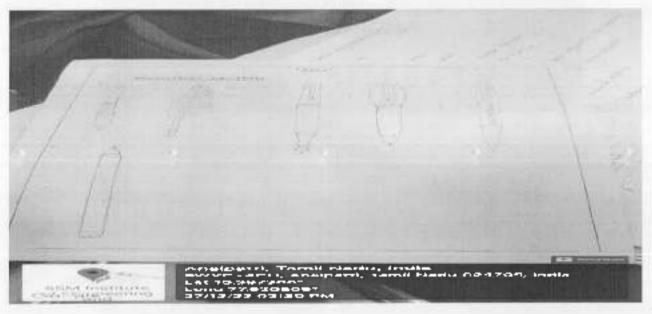
Теапі	Topic Choosen
Team 1	Ergonomic Chair
Team 2	Smart Switch
Team 3	Smart Fan
Team 4	Traveller shoe (Smart Shoe for Various seasons)
Team S	Smart Specs
Team 6	Digitalization Helmets

KLEXA Air pods
Foldable Laptops
Smart Pen(Stylo-Metlantilous)
Smart ID Card
Smart Syntax tank
Umbrella Table

Each team presented their customer requirements and the design of their product to all members,









After sketching their design, prescated their design in front of all and told about the readvantages.

Features about their product in detail.











Each and Every point trainer interacts with the students by asking questions and answering them gently. We conclude the workshop by getting feedback from the students and appreciate the efforts taken by the students. We conclude the session at 4.30 p.m and thank the chief guest for thier patience, involvement and core to the knowledge he expressed and motivated the students.

Students learned for from the session by how simply convert our customer requirements into product and they asked to arrange the detailed marketing strategy also in future

Event- Coordinators/IIC

President/IIC

Principal



□ Good ○ Pair

### SSM Institute of Engineering and Technology, Dindigul Dindigul - Palani Highway, Dindigul - 624 002



INSTITUTION INNOVATION COUNCIL

(Approved by AICTE, New Delli), Affiliated to Anna University, Chennal, Accredited by NAAC)

Institution's Innovation Council (IIC)

Name of the Program:	Workshop on "Design Thinking to product development"  Dr S.Vinodh, Department of Production Engineering, National Institute of Technology, Tricky.	
Name of the Guest:		
Date & Venue: 27.12.22 & Seminar Hall 1		Timing: 10:00 a.m. to 04:30 p.m.

2.	Resource person's knowledge on content delivered  Excellent
	□ Good □ Fair
3.	Response of the resource person to students' queries.
	U Fair
4.	Whether the session was useful?  Excellent  Good  Fair
5.	Overall experience  Excellent  Good  Fair
6.	Suggestions/ Comments to improve, if any:
	Proffessional life
	Signature of the Participant
	P.T. Roam projects.



### SSM Institute of Engineering and Technology, Dindigul Dindigul – Palani Highway, Dindigul – 624 002



(Approved by AICTE, New Dolhi, Affiliated to Anna University, Chennal, Accredited by NAAC)

	Institution's Innovation	TO THE RESIDENCE OF THE PARTY O
	Feedback for	ltl
Name of the Program:	<ul> <li>Workshop on "Design Thinking to product development"</li> <li>Dr S.Vinodh, Department of Production Engineering, National Institute of Technology, Trichy.</li> </ul>	
Name of the Guest:		
Date & Venue: 27.12.22	& Seminar (la)] 1	Timing: 10:00 a.m. to 04:30 p.m.
<ol> <li>Content delivery by R         Excellent         Good         Fair     </li> <li>Resource person's kn</li> </ol>		ivered
-∂n Excellent □ Good □ .Fair		
3. Response of the resou	irce person to students'	yueries.
D^ Good □ Fair		
4. Whether the session v  ✓ Excellent  □ Good  □ Fair	vas useful?	
Overall experience		
Suggestions/Comments	s to improve, if any:	lukon

B RATAROA Signature of the Participant



### SSM Institute of Engineering and Technology, Dindigul Dindigul - Palani Highway, Dindigul - 624 002



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chemiai, Accredited by NAAC)

	Feedback for	m.	
Name of the Program:	Workshop on "Design Thinking to product development"		
Name of the Guest:	Dr S.Vinodh,Departme Institute of Technolog	ent of Production Engineering,National y,Trichy.	
Date & Venue: 27.12.22 & Seminar Hall 1		Timing: 10:00 a.m. to 04:30 p.m.	

Name of the Guest:	St: Dr S.Vinodh,Department of Production Engineering,National Institute of Technology,Trichy.		
Date & Venue: 27.12.	22 & Seminar Hall 1	Timing: 10:00 a.m. to 04.30 p.m.	
<ol> <li>Content delivery by ⊕ Excellent</li></ol>	y Resource person		
2. Resource person's  Excellent  Good  Fair	knowledge on content deli	ivered	
3. Response of the res	source person to students'	queries.	
Good U Fair			
4. Whether the session  ☐ Excellent ☐ Good ☐ Fair	n was useful?		
5. Overall experience □/ Excellent □ Good □ Fair			
6. Suggestions/Comme	nts to improve, if any:		
This we	acce this.	O. Orogalaunthii  Signature of the Participant	
		~-K-invare of the 1 di (iciDant	



### SSM Institute of Engineering and Technology, Dindigul Dindigul – Palani Highway, Dindigul – 624 002



Signature of the Participant

(Approved by AICTE, New Dolhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

Institution's Innovation Council (IIC)

	Feedback for	m	
Name of the Program:	rogram: Workshop on "Design Thinking to product development"		
Name of the Guest:	Dr S.Vinodh, Department of Production Engineering, National Institute of Technology, Trichy.		
Date & Venue: 27.12.22	& Seminar Hall 1	Timing: 10:00 a.m. to 04:30 p.m.	
1. Content delivery by R  ✓ Excellent  ☐ Good  ☐ Fair  2. Resource person's kn  ☑ Excellent  ☐ Good  ☐ Fair  3. Response of the resource excellent  ☐ Good  ☐ Fair  4. Whether the session was excellent  ☐ Good  ☐ Fair  5. Overall experience  ☐ Excellent  ☐ Good	owledge on content del. irce person to students'		
□ .Fair			
6. Suggestions/Comment.	s to improve, if any: Speech is good		
		Sha - 1 1-40 MA- 0	



### SSM Institute of Engineering and Technology, Dindigul Dindigul - Palani Highway, Dindigul - 624 002



(Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai, Accredited by NAAC)

Institution's Innovation Council (IJC)
--

	Feedback for	נחי	
Name of the Program:	Workshop on "Design Thinking to product development"		
Name of the Guest:	Dr S.Vinodh, Department of Production Engineering, National Institute of Technology, Trichy.		
Date & Venue: 27.12.22	& Seminar Hall 1	Timing: 10:00 a.m. to 04:30 p.m.	
l. Content delivery by R	חספתם שילוווספק		
Excellent	essarve person		
□ Good			
☐ Fair			
2. Resource person's kn	owledge on content del	ivorad	
☑ Excellent	- wrongs an content act	11 El Gu	
□ Good			
⊒ "Fatr			
Response of the resou	irce Berson to students	queries	
J Excellent	see betaon to amidenta	queries,	
Cood			
O Fair			
. Whether the session v	vas useful?		
E Good			
□ Fair			
Overall experience			
U Good			
○ • Fair			
Suggestions/ Comments	to improve, If any:		
: - we gained m	ore knowledge from	this sir no suggestion in.	
Thank You	0 1	all mygessem m.	
2 AMA 4 ADM		Knish & D	
- 2		Signature of the Participant	
		Signature of the Participant	



### SSM Institute of Engineering and Technology, Dindigul Dindigul - Palani Highway, Dindigul - 624 002



(Approved by Art T.E. New Ooth), Altitlated to Anna University, Csernot, According by SAAC).

### Institution's Innovation Council (HC) Workshop Photos





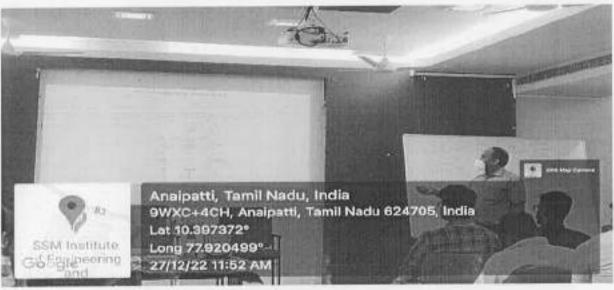




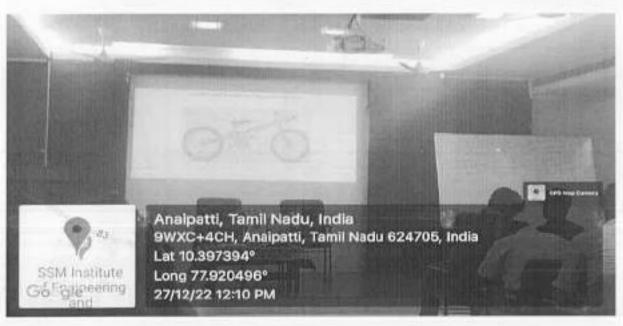




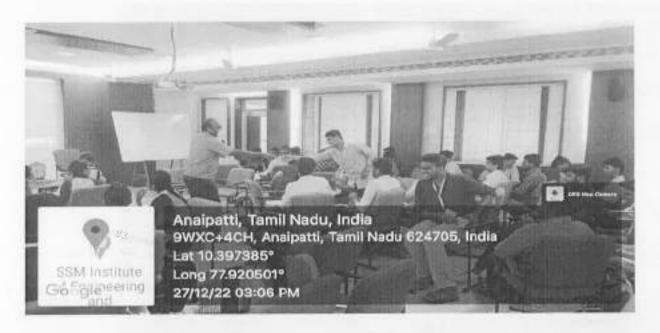








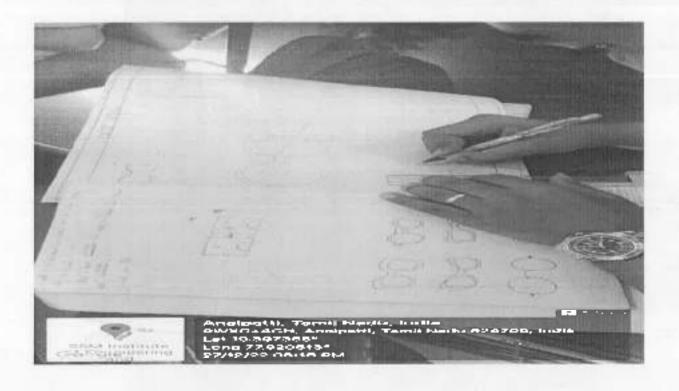


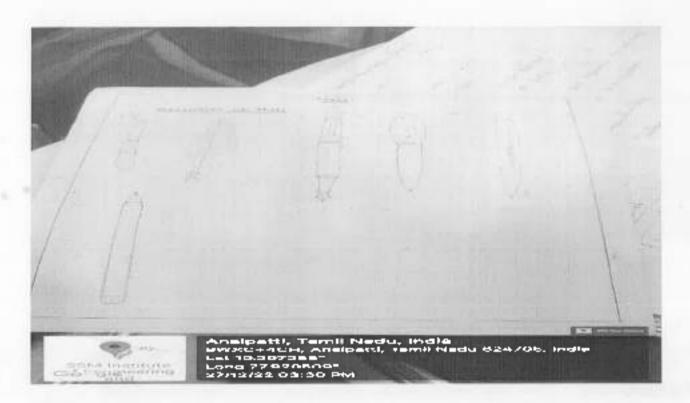


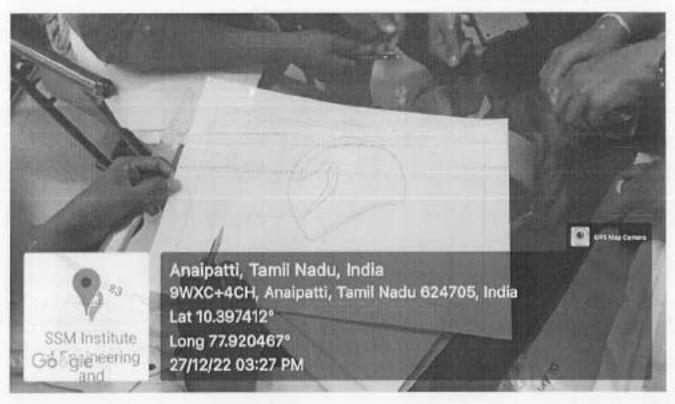
















President/NC

Event Coordinator/IIC

Principal



# SS MENGINEERING AND TECHNOLOGY



[Approved by AICTE, New Delhi · Affiliated to Anna University, Chennai · Accredited by NAAC]

Dindigul - Palani Highway, Dindigul - 624002.

# Workshop on Design Thinking to Product Development

## CERTIFICATE OF PARTICIPATION

had actively	Department	This is to Cerl
had actively participated in the WORKSHOP on "DESIGN THINKING"	Department of	This is to Certify that Dr. M. RAMESHART, PROFESSOR, from the
the WORKSHO	THS	M. RAMES
P on "DESIGN"	SSM Ins	MART P
THINKING TO I	titute of Engi	ROFESSOR
TO PRODUCT DEVELOPMENT"	neering and	
ELOPMENT"	Technology,	from the

organized by Institution's Innovation Council on 27th December 2022.

N.J.D.

Event Coordinators

Mrs. N. J. Divya (AP/CSE)

Mr. M. Selwin (AP/Mech)



Principal Mularan
Dr. D. Senthil Kumaran