



KINGS
COLLEGE OF ENGINEERING
AUTONOMOUS

Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
Recognized under 2(f) & 12B, UGC
NAAC Accredited Institution

Department of Mechanical Engineering
Webinar report on Product Development Process

Title : Product Development Process
Date : 29.04.2024
Duration : 1 Hour (02:00 PM to 03:00 PM)
Speakers : Mr. N. Jegan,
Project Coordinator,
Danfoss Industries Pvt. Ltd., Chennai.

On 29.04.2024, Department of Mechanical Engineering, Kings College of Engineering (Autonomous), Thanjavur hosted a comprehensive webinar on the "Product Development Process" tailored for mechanical engineering students. The webinar aimed to provide insights into the intricacies of product development within the mechanical engineering domain, focusing on modern methodologies and industry best practices. Dr. S. Sabanayagam, Associate Professor/Mechanical, welcomed and introduced the resource person. Mr. K. Rajesh Kumar, Assistant Professor/Mechanical, concluded the session with vote of thanks. This report encapsulates the key highlights and outcomes of the event.

Objectives:

1. To familiarize mechanical engineering students with the stages and methodologies involved in product development.
2. To highlight the importance of interdisciplinary collaboration in the product development process.
3. To provide real-world insights and case studies to illustrate key concepts.

Key insights from the invited talk:

The session commenced with an overview of the product development lifecycle, emphasizing the significance of understanding customer needs, market analysis, and feasibility studies. Speakers delved into the conceptualization phase, discussing ideation techniques, concept selection criteria, and the role of creativity in engineering design. This segment focused on the translation of concepts into detailed designs, encompassing

CAD modelling, simulation, and analysis for ensuring product performance and reliability. Attendees gained insights into prototyping methodologies, including rapid prototyping techniques such as 3D printing, and the iterative nature of prototyping for refining designs. The webinar emphasized the importance of rigorous testing and validation procedures to verify product functionality, safety, and compliance with regulatory standards. Speakers discussed various manufacturing processes and strategies for optimizing production efficiency while maintaining quality standards. Real-world case studies were presented to illustrate the application of product development methodologies in diverse industrial sectors, providing attendees with practical insights and lessons learned.

Invitation



KINGS
COLLEGE OF ENGINEERING
An Autonomous Institution

Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
Recognized under 2(f) & 12B, UGC
NAAC Accredited Institution

A National Level Webinar on **Product Development Process**

Organized by
Department of Mechanical Engineering

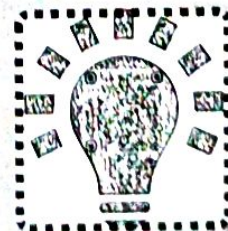


Mr. N. Jegan,
Project Coordinator,
Danfoss Industries Pvt. Ltd.,
Kanchipuram,
Tamil Nadu 602105

Date & Time: 29.04.2024 @ 02:00 PM

Registration Link:

<https://forms.gle/GssaS3apZTtu743k9>



Dr.S.Sabanayagam
Mr.K.RajeshKumar

Organizers

Dr.T.Pushparaj

HoD/Mech

Dr.J.Arputha Vijaya Selvi

Principal

<https://www.kingsengg.edu.in>



Sample Certificate



KINGS
COLLEGE OF ENGINEERING
An Autonomous Institution

Approved by AICTE, New Delhi
Affiliated to Anna University, Chennai
Recognized under 2(f) & 12B, UGC
NAAC Accredited Institution

Certificate of Participation

This Certificate is presented to
Dr. Nalini Subramanian

Rajalakshmi Engineering College

of _____
for active participation in the National Level webinar on "Product Development Process" on 29th April 2024, organized by the Department of Mechanical Engineering, Kings College of Engineering (Autonomous), Punalkulam, Pudukkottai (Dt).

Organizers
Dr.S.Sabanayagam
Mr.K.Rajesh Kumar

HoD/Mech
Dr.T.Pushparaj

Principal
Dr.J.Arputha Vijaya Selvi

Glimpses of the event



Despite being conducted through online mode, the webinar fostered active participation and engagement among the attendees. A total of 127 mechanical engineering students actively participated in the event, posing insightful questions and actively contributing to the discussions.

Key Takeaways:

The importance of interdisciplinary collaboration between mechanical engineers, designers, marketers, and other stakeholders throughout the product development process. Understanding the iterative nature of the design process and the value of prototyping and testing in refining product designs. Insights into real-world applications of product development methodologies across diverse industrial sectors, providing students with a holistic understanding of the field.

The "Product Development Process" webinar served as a valuable platform for mechanical engineering students to gain a comprehensive understanding of the intricacies involved in bringing a product from concept to market. By providing theoretical knowledge supplemented with practical insights and case studies, the webinar equipped attendees with the necessary tools and knowledge to excel in their future endeavours within the field of mechanical engineering.

List of Participants

S. No	Name of the Institution	No of Beneficiaries
1	THANTHAI ROEVER INSTITUTE OF POLYTECHNIC COLLEGE.	1
2	Anjali Ammal Mahalingam Engineering College Kovilvenni.	1
3	Anna University Chennai	1
4	Arifa institute of technology	1
5	Arya College of engineering Jaipur	1
6	As salam collage engineering and technology	2
7	Assam University, Silchar	1
8	Bapatla Engineering College	1
9	Bapuji Institute of Engineering and Technology Davangere	1
10	Central University of Jammu	2
11	College of Engg & Technology, Akola	1
12	CSAU A&T KANPUR	1
13	CSI polytechnic college	1

14	Department of Earth and Environmental Sciences, Parul University.	1
15	Dhanalakshmi College of Engineering	1
16	DLHH COP ULHASNAGAR	1
17	Dr. C. V. Raman University, Kota , Bilaspur (C.G.)	1
18	Durham Learning Centre, England	1
19	E.G.S. Pillay Engineering College (Autonomous) Nagapattinam	25
20	GDC kastigarh	1
21	Government College, Una	2
22	Government Polytechnic Anantapur	1
23	Govt Degree College Budhal	1
24	HKBK College of Engineering	1
25	IFET College of engineering	1
26	JAYA ENGINEERING COLLEGE	1
27	JLD Engineering & Management College	1
28	JSSSTU, MYSURU	1
29	KET polytechnic college, krishnagiri	1
30	KINGS COLLEGE OF ENGINEERING, PUNALKULAM	45
31	Kristu Jayanti College, Autonomous	1
32	KUMARAGURU COLLEGE OF TECHNOLOGY	1
33	M S Ramaiah College of Arts Science and Commerce	1
34	MIMIT, Punjab	2
35	Meenakshi Sundararajan Engineering College, Chennai.	2
36	MOOKAMBIGAI COLLEGE OF ENGINEERING	1
37	NALLAMUTHU GOUNDER MAHALINGAM COLLEGE	1
38	P.S.R.R College of Engineering , Sivakasi	2
39	Pandian Saraswathi Yadav Engineering College Arasanoor	1
40	PARISUTHAM INSTITUTE OF TECHNOLOGY AND SCIENCE THANJAVUR	6
41	Parul University, Vadodara	1
42	PESCE, MANDYA	1
43	PRIST SCHOOL OF ENGINEERING AND TECHNOLOGY	1
44	Rajalakshmi Engineering College	1
45	Sandip Institute of Technology and Research Centre	1
46	Sengunthar Engineering College	1
47	Shraddha Children's Academy	1

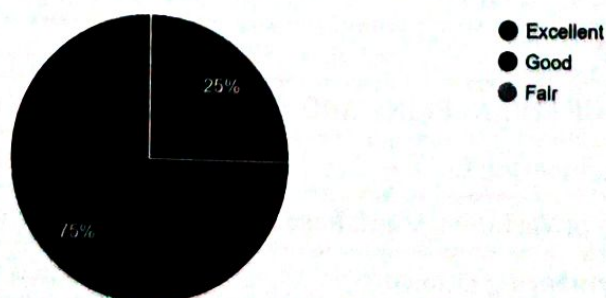
48	SHREE VENKATESHWARA HI-TECH ENGINEERING COLLEGE	1
49	SJES College of Education	1
50	Sri Manakula Vinayagar Engineering College	2
51	Sri Ranganathar Institute of Engineering and Technology	1
52	SRM TRP ENGINEERING COLLEGE, TRICHY	1
53	St.Joseph's College of Engineering and Technology-Thanjavur	1
54	STAR LION COLLEGE OF ENGINEERING AND TECHNOLOGY, THANJAVUR	19
55	Swarnim Institute of Technology, Gandhinagar, Gujarat	1
56	Tecnia Institute of Advanced Studies	1
57	Teegala Krishna Reddy Engineering College	1
58	Thanthai Roever Institute of polytechnic college	4
59	The Oxford College of Science	1
60	Tikrit university	1
61	VANDAYAR ENGINEERING COLLEGE	1
62	Vel Tech Multi Tech Dr.Rangarajan Dr.Sakunthala Engineering College	1
63	Verghese Kurien Institute of Dairy and Food Technology, Thrissur Kerala	1
64	Vidyavardha College of Engineering	3
65	Vignan's Lara institute of technology and science (Autonomous), Guntur.	2
66	VMKEC	1
Total		170

Acknowledgments: On behalf of Kings College of Engineering (Autonomous), Thanjavur, we extend our sincere gratitude to the speakers, participants, and organizers for their valuable contributions in making the webinar a resounding success.

Feedback: Obtained from Google form.

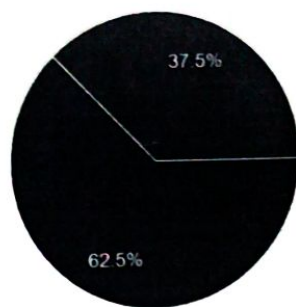
Content of the Program?

56 responses



Quality of Audio/Video Streaming?

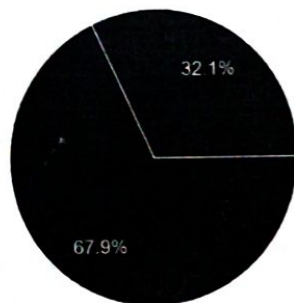
56 responses



- Excellent
- Good
- Fair

Way of Presentation?

56 responses



- Excellent
- Good
- Fair


Organizers

Dr.S.Sabanayagam
Mr.K.Rajesh Kumar


HoD/Mech 4/5/24

Dr.T.Pushparaj


4/5/24

Principal

Dr.J.Arputha Vijaya Selvi