




**INTERNAL QUALITY ASSURANCE CELL**  
**CIRCULAR**

Ref: PERIIT/IQAC/ 2021-2022/Even/10


Date: 16/03/2022

The Department of Internal Quality Assurance Cell is organizing guest lecture on “Challenges in Design & Development of Mechanical System for Aero Application” for III and IV year mechanical students on 24-03-2022 at 10.00 am.

I request all the students to attend the guest lecture and expecting your cooperation throughout the session.



HEAD-IQAC



Dr. R. PALSON KENNEDY, M.E., Ph.D.  
PRINCIPAL  
PERI INSTITUTE OF TECHNOLOGY  
Mennivakkam, Chennai - 600 048.

# PERI

INSTITUTE OF TECHNOLOGY

24 MAR 2022  
10 AM

PERI IQAC  
ORGANIZES

## CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL SYSTEM FOR AERO APPLICATION



Resource Person:



**Dr. S. KRISHNAKUMAR**

Ministry of Defence,  
Defence Res & Dev Organisation  
(DRDO) Avadi, Chennai-54



Resource Person:



**Dr. S. Nagesh,**

Scientist 'F', Project Director,  
C.V.R.D.E.,  
D.R.D.O, Avadi, Chennai

Convenor:

**Dr. R. PALSON KENNEDY**

Principal

**Mr. B. MAGESH**

Vice Principal

Coordinator:


**Mr. ANILKUMAR**

HOD - MECH

ADMISSION CONTACT :

 **91505 94111 / 222**

 PERI Knowledge Park, Mannivakkam, Chennai - 600048

 [www.peri.education](http://www.peri.education)  
[admissions@peri.education](mailto:admissions@peri.education)

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## REPORT ON EVENT

<b>Department</b>	Internal Quality Assurance Cell
<b>Type of event</b>	Guest Lecture
<b>Title of the event</b>	Challenges in Design & Development of Mechanical System for Aero Application
<b>Date and time</b>	24-03-2022 & 10.00 am
<b>Mode of event</b>	Offline
<b>Details of participants</b>	Mechanical and Electronics and Communication Engineering Students
<b>Details of the resource person</b>	Name Of The Resource Person: Dr S Krishnakumar and Dr S Nagesh Organization: Ministry of Defence. DRDO, Avadi Chennai Designation: Scientist 'F' Project Director
<b>Report on Event</b>	<p>The chief guest explained about the challenges that mechanical engineers facing in designing the mechanical components for aero application. Mechanical design for aerospace systems is a multifaceted process that integrates various engineering disciplines to create safe, efficient, and reliable components and structures. The principles of mechanics, materials, thermodynamics, fluid dynamics, and control are applied to combine the requirements of the aerospace project. Mechanical design also considers the environmental, operational, and regulatory factors that affect the aerospace system, such as aerodynamics, loads, vibrations, noise, heat, corrosion, and fatigue. Various tools and techniques can be used by the mechanical engineers to perform mechanical design, such as computer-aided design (CAD), finite element analysis (FEA), computational fluid dynamics (CFD) and optimization algorithms. He has also explained the career opportunities for them in aero industry. He included that mechanical design and analysis are essential skills for mechanical engineers who would like to work in the aerospace industry.</p>
<b>Outcome of the Event</b>	This session enhanced the knowledge in the field Aerospace Industry



## Event Photos



Fig 1 Resource persons with Principal



Fig 2 Resource persons with Mechanical Students

*R. Palson Kennedy*  
**Dr. R. PALSON KENNEDY, M.E., Ph.D**  
**PRINCIPAL**  
**PERI INSTITUTE OF TECHNOLOGY**  
**Mannivakkam, Chennai - 600 048**



**PERI INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**GUEST LECTURE ON "CHALLENGES IN DESIGN & DEVELOPMENT OF**  
**MECHANICAL SYSTEM FOR AERO APPLICATION"**


**24-03-2022\_ATTENDANCE SHEET**

**III YEAR**

S. No	Register Number	Student Name	Signature
1	411520114001	Abinesh N R	<i>Abinesh N R</i>
2	411520114002	Dharanidharan P	<i>Dharanidharan P</i>
3	411520114003	Dharanivaran T	<i>T. Dharanivaran</i>
4	411520114004	Gowtham K	<i>K. Gowtham</i>
5	411520114007	Nithyanandam S	<i>S. Nithyanandam</i>
6	411520114008	Puvirasan C	<i>AB</i>
7	411520114009	Rajesh G	<i>G. Rajesh</i>
8	411520114010	Rithwik Eb	<i>Rithwik Eb</i>
9	411520114011	Rooban Dharamaraj K	<i>Rooban</i>
10	411520114012	Santhosh Kumar R	<i>AB</i>
11	411520114013	Saranraj S	<i>Saranraj S</i>
12	411520114014	Sathish M	<i>Sathish M</i>
13	411520114015	Sri Dharan S	<i>Sri Dharan S</i>
14	411520114016	Sugadev V	<i>V. Sugadev</i>
15	411520114017	Tamil Selvan C	<i>AB</i>
16	411520114018	Tamil Selvan V	<i>V. Tamil Selvan</i>
17	411520114301	Ajith S	<i>Ajith S</i>
18	411520114302	Akilan G	<i>Akilan G</i>
19	411520114303	Arinarayanan P	<i>AB</i>
20	411520114304	Arjun K	<i>Arjun K</i>
21	411520114305	Bala Ashwin D	<i>Bala Ashwin D</i>
22	411520114306	Balachandar S	<i>Balachandar S</i>
23	411520114307	Balamurugan P	<i>P. Balamurugan</i>
24	411520114308	Deepak R	<i>R. Deepak</i>
25	411520114309	Geethapriyan M G	<i>AB</i>
26	411520114310	Gokulraj R	<i>Gokulraj R</i>
27	411520114311	Gowtham P	<i>P. Gowtham</i>
28	411520114312	Joshua A	<i>A. Joshua</i>
29	411520114313	Joshua Daniel M	<i>Joshua Daniel M</i>
30	411520114314	Kishore B	<i>Kishore B</i>

*Kishore*  
**Dr. R. PALSON KENNEDY, I.E.T.**  
**PRINCIPAL**  
**PERI INSTITUTE OF TECHNOLOGY**  
**Mannivakkam, Chennai - 600 048.**

31	411520114315	Lokeswaran J	Lokeswaran J
32	411520114316	Manikandan S	Manikandan S
33	411520114317	Mukesh R	Mukesh R
34	411520114318	Muralidharan S	Muralidharan S
35	411520114319	Nandhakumar S	Nandhakumar S
36	411520114320	Om Prakash R	Om Prakash R
37	411520114321	Prasanth M	Prasanth M
38	411520114322	Prathiban T	Prathiban T
39	411520114323	Pugazhendhi P	P. Pugazhendhi
40	411520114324	Ranjith G	Ranjith G
41	411520114325	Saarathy A	Saarathy A
42	411520114326	Sanjay D	Sanjay D
43	411520114327	Saravanakumar P	Saravanakumar P
44	411520114328	Saravanan D	Saravanan D
45	411520114329	Selvin Gino S	Selvin Gino S
46	411520114330	Subash E	Subash E
47	411520114331	Subbramanian S	Subbramanian S
48	411520114332	Suresh Pandi M	Suresh Pandi M
49	411520114333	Suriya P	Suriya P
50	411520114334	Syed Ali F	Syed Ali F
51	411520114335	Syed Gayaz Basha H	Syed Gayaz Basha H
52	411520114336	Syed Riswan Basha H	Syed Riswan Basha H
53	411520114337	Vasudevan R	Vasudevan R
54	411520114338	Vetrimurugan S	Vetrimurugan S
55	411520114339	Vignesh M	M. Vignesh
56	411520114340	Yogeshwaran A	Yogeshwaran A

  
**Dr. R. PALSON KENNEDY, M.E., Ph.D.,**  
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**PERI INSTITUTE OF TECHNOLOGY**  
**DEPARTMENT OF MECHANICAL ENGINEERING**  
**GUEST LECTURE ON "CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL**  
**SYSTEM FOR AERO APPLICATION"**  
**24-03-2022\_ATTENDANCE SHEET**  
**IV YEAR**

S. No	Register Number	Student Name	Signature
1	411519114001	G. Ajith Kumar	<i>Ajith</i>
2	411519114002	A. Akash	<i>Akash</i>
3	411519114003	C Arun	<i>C. Arun</i>
4	411519114004	M. Fareed	<i>Fareed</i>
5	411519114005	K. Ganesh Kumar	AB
6	411519114006	R Hari Krishnan	<i>Hari</i>
7	411519114007	V Mithran	<i>Mithran</i>
8	411519114008	M. Mohammed Razool	<i>Mohy</i>
9	411519114009	S. Muguntharaj	AB
10	411519114010	M.T. Naveen	<i>Naveen</i>
11	411519114011	S Neelagandan	<i>S. Neelag</i>
12	411519114012	T Pradeep Raj	<i>T. Pradeep Raj</i>
13	411519114013	A. Raj	<i>A. Raj</i>
14	411519114015	G Sabari Vasan	AB
15	411519114016	A Sandeesh Kumar	<i>A. Sandeesh</i>
16	411519114018	V. Sathish	<i>V. Sathish</i>
17	411519114019	K. Sathish Kumar	<i>K. Sathish Kumar</i>
18	411519114020	S Selvinraj	<i>S. Selvinraj</i>
19	411519114021	V. Sivakumar	AB
20	411519114022	B Surya Narayanan	<i>B. S. Narayan</i>
21	411519114023	M Thaha Mohamed	<i>Thaha</i>
22	411519114301	S Abdul Rajacq	<i>Abdul Rajacq</i>
23	411519114302	R Ajay Mathew	<i>R. Ajay</i>
24	411519114303	L Mathan	<i>Mathan</i>
25	411519114305	S Nagacharan	<i>S. Nagacharan</i>
26	411519114306	P. Saravanakumar.	<i>Saravanakumar</i>
27	411519114307	N. Sunil.	<i>Sunil</i>
28	411519114308	B Tamilarasan	<i>B. Tamilarasan</i>
29	411519114309	R Vallarasu	<i>Vallarasu</i>
30	411519114310	Shyam Kumar	AB
31	411519114701	K Jegathish	<i>Jegathish</i>
32	411519114702	D Malayalan	AB

*R. Palson Kennedy*  
**DR. R. PALSON KENNEDY, M.E., Ph.D.,**  
**PRINCIPAL**  
**PERI INSTITUTE OF TECHNOLOGY**  
**Mannivakkam, Chennai - 600 048.**

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Mechanical Engineering

**FEEDBACK FORM**

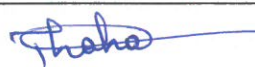
Name of the Participant	:	M. Thaha Mohamed				
Name of the Event	:	Use tick mark	<input type="checkbox"/> Workshop	<input type="checkbox"/> Seminar	<input checked="" type="checkbox"/> Guest Lecture	
Event Participant	:	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> External	Name of the college	:	PERI IT

Your feedback is valuable to ensure we are meeting your educational needs. We would appreciate if you could take a few minutes to share your opinions with us so we can serve you better.

Title of the Event	:	Challenges in Design & Development of Mechanical System for Aero Application
Date	:	24-03-2022
Name of the Instructor/Organization	:	PERI Institute Of Technology- Department of Mechanical Engineering

Please response to the following statements by using the 4-point rating scale to indicate the extent to which you agree or disagree with each statement. Please circle the number that applies.

S. No	Evaluation Statements	Strongly Agree	Agree	Disagree	Strongly Disagree
1.	The program was well paced within allotted time	4	3	2	1
2.	The material was presented in an organized manner	4	3	2	1
3.	The instructors' knowledge on the topic was good.	4	3	2	1
4.	The instructors explained the material well and provided real-world examples.	4	3	2	1
5.	The facilitators were responsive to participants questions	4	3	2	1
6.	The tutorial options accommodated the differing interests of participants.	4	3	2	1
7.	Overall, the event met my expectations.	4	3	2	1
8.	I will recommended this seminar /workshop /guest lecture /conference to other conservators	YES/NO			
9.	I would be interested in attending a follow up, more advance seminar/workshop/Guest lecture /conference on the same subject.	YES/NO			
10.	Suggestion if any				

  
 Signature



PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Mechanical Engineering

FEEDBACK FORM


Name of the Participant	:	G. Ajith Kumar			
Name of the Event	:	Use tick mark	<input type="checkbox"/> Workshop	<input type="checkbox"/> Seminar	<input checked="" type="checkbox"/> Guest Lecture
Event Participant	:	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> External	Name of the college	: PERI IT

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10.	Suggestion if any	-			

  
Signature

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Mechanical Engineering

**FEEDBACK FORM**

Name of the Participant	:	N. Sunil				
Name of the Event	:	Use tick mark	<input type="checkbox"/> Workshop	<input type="checkbox"/> Seminar	<input checked="" type="checkbox"/> Guest Lecture	
Event Participant	:	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> External	Name of the college	:	PERI IT

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10.	Suggestion if any	-			

Sunil  
Signature



PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Mechanical Engineering

FEEDBACK FORM

Name of the Participant	:	S. Saranya			
Name of the Event	:	Use tick mark	<input type="checkbox"/> Workshop	<input type="checkbox"/> Seminar	<input checked="" type="checkbox"/> Guest Lecture
Event Participant	:	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> External	Name of the college	: PERI IT

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10.	Suggestion if any				

Saranya  
Signature

PERI INSTITUTE OF TECHNOLOGY

Mannivakkam-48

Department of Mechanical Engineering

FEEDBACK FORM

Name of the Participant	:	Cr. Akilan				
Name of the Event	:	Use tick mark	<input type="checkbox"/> Workshop	<input type="checkbox"/> Seminar	<input checked="" type="checkbox"/> Guest Lecture	
Event Participant	:	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> External	Name of the college	:	PERI IT

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9.	I would be interested in attending a follow up, more advance seminar/workshop/Guest lecture /conference on the same subject.	YES/NO			
10.	Suggestion if any				

Cr. Akilan  
Signature



## “CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL SYSTEM FOR AERO APPLICATION”

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms. K.JEGATHISH has participated  
from IV - Year - Mechanical Engineering  
in the guest lecture on **CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL  
SYSTEM FOR AERO APPLICATION** held at **PERI Institute of Technology**  
on **24<sup>th</sup> March 2022.**



PRINCIPAL



VICE PRINCIPAL

## “CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL SYSTEM FOR AERO APPLICATION”

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr /-Ms. C.ARUN has participated  
from IV-year - Mechanical Engineering  
in the guest lecture on **CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL  
SYSTEM FOR AERO APPLICATION** held at **PERI Institute of Technology**  
on **24<sup>th</sup> March 2022.**



PRINCIPAL



VICE PRINCIPAL



## “CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL SYSTEM FOR AERO APPLICATION”

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms: M. JOSHUA DANIEL has participated  
from III-Year Mechanical Engineering  
in the guest lecture on **CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL  
SYSTEM FOR AERO APPLICATION** held at **PERI Institute of Technology**  
on **24<sup>th</sup> March 2022.**



PRINCIPAL



VICE PRINCIPAL

## “CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL SYSTEM FOR AERO APPLICATION”

### CERTIFICATE OF PARTICIPATION

This is to certify that Mr / Ms. K. ARJUN has participated  
from III - Year Mechanical Engineering  
in the guest lecture on **CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL  
SYSTEM FOR AERO APPLICATION** held at **PERI Institute of Technology**  
on **24<sup>th</sup> March 2022.**



PRINCIPAL



VICE PRINCIPAL



## **“CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL SYSTEM FOR AERO APPLICATION”**

### **CERTIFICATE OF PARTICIPATION**

This is to certify that Mr / Ms. G. RAJESH has participated  
from III - Year - Mechanical Engineering  
in the guest lecture on **CHALLENGES IN DESIGN & DEVELOPMENT OF MECHANICAL  
SYSTEM FOR AERO APPLICATION** held at **PERI Institute of Technology**  
on **24<sup>th</sup> March 2022.**



**PRINCIPAL**



**VICE PRINCIPAL**