Mechanical Engineering Department

Cultural / Co-curricular/ Extra-curricular Activities

AY 2021-2022 (ODD Semester)

Departmental Activities Incharge: Mr. Dhiraj Bhandarkar

INDEX

SHRI VILE PARLE KELAVANI MANDAL'S
Institute of Technology, Dhule
Approved by AICTE New Delhi | Affilated to DBATU, Lonere

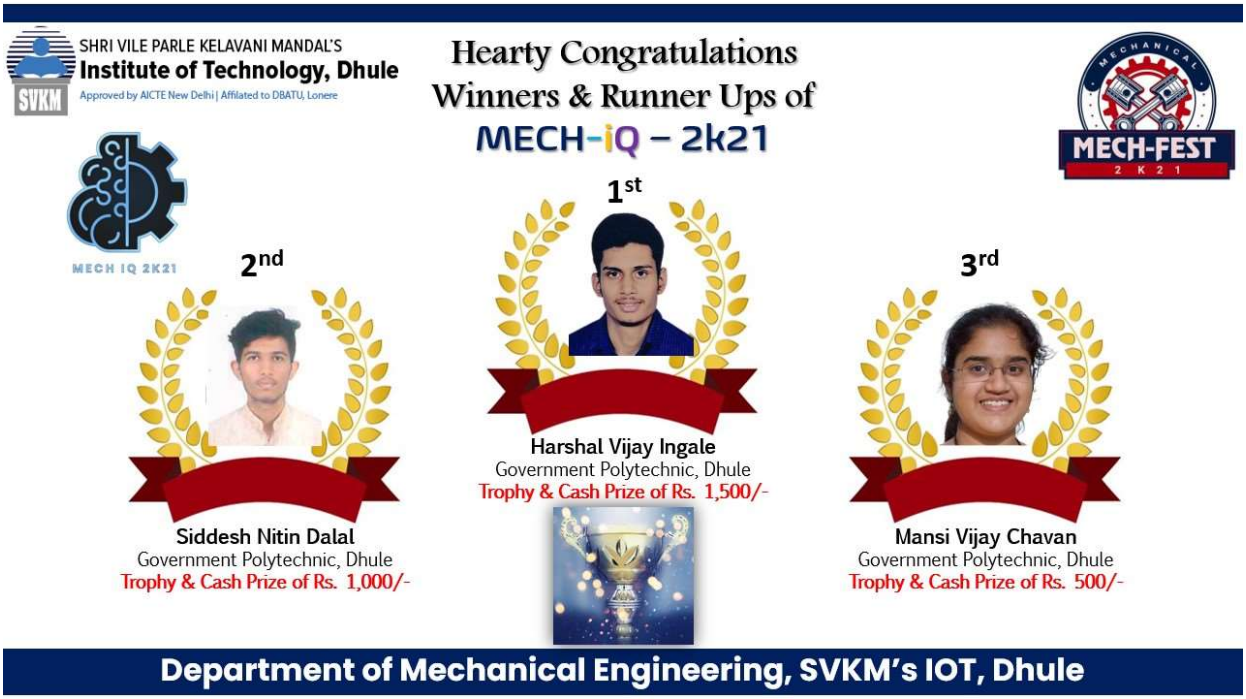
Shri Vile Parle Kelavani Mandal's

Institute of Technology, Dhule

Department of Mechanical Engineering

Event Report MECHiQ-2k21

"**MECHiQ-2k21**", a technical quiz competition was organized by department of Mechanical Engineering, SVKM's Institute of Technology, Dhule on 5th August 2021 (Thursday) between 12: 00 p.m. to 12:30 pm. The event was targeted for final year diploma students of Mechanical and allied branches. The event got great response from participants with **92 registrations**. The quiz was based on general awareness and third year Diploma Mechanical Engineering syllabus. The quiz comprised of 50 multiple choice questions to be solved in short span of 30 minutes, thereby assessing technical and general aptitude of Diploma students. **30** students successfully completed quiz within given timeframe.



Following are toppers from this quiz competition.

Mr. Harshal Vijay Ingale from Government Polytechnic, Dhule.

Mr. Siddesh Nitin Dalal from Government Polytechnic, Dhule.

Ms. Mansi Vijay Chavan from Government Polytechnic, Dhule.

The winners and runners-up were felicitated with trophies and cash prizes during valedictory session on 17th August 2021. All other successful participants were provided with e-Certificate of participation by the organizers. The online feedback forwarded by participants was positive. The other necessary details about **MECHiQ-2k21** event is attached with report.

Dr. Amol Badgujar	**Dr. Hitesh Thakare**	**Prof. Mohammed Juneduddin**
Event Coordinator	Event Coordinator	Convener, MechFest-2k21
		HOD Mechanical

Date: 15-08-2021

Place: Dhule

Enclosures

1. List of students registered
2. List of successful participants
3. Screenshots of emails were sent to the participants after registration was closed.
4. Rules/Instruction of the events.
5. The sample certificate.
6. Feedback form -screenshots.
7. Image taken during valedictory function, showing the winners receiving prizes (17th August-2021)

1. List of Students Registered

Name of Candidate (Starting with Surname)	Mobile Number	Email ID	Name of Diploma College
Dhole Sandip Gulabrao	9373194356	sandipdp2002@gmail.com	Government Polytechnic Dhule
Wankhede Chaitanya Kishor	7620740836	wankhedechaitanya2@gmail.com	SSVPS'S BAPUSAHEB SHIVAJIRAO DEORE POLYTECHNIC, DHULE
Haral Gauri Satish	9373072720	hrlgauri@gmail.com	Government Polytechnic Dhule
NIKAM PRASHANT DNYANESHWAR	9881574473	prashantnikam2019@gmail.com	Government Polytechnic Dhule
Patil Vishal purushottam	No mobile	vishalppatil8470@gmail.com	SSPM's Vasantrao More Polytechnic, Parola
Pawara Rakesh Madan	8007374615	rakeshpawara650@gmail.com	Government Polytechnic Nandurbar
Prajapati urvashi Rajesh	7020151842	prjptrvsh@gmail.com	Government Polytechnic Dhule
Patil yashraj Nandlal	9637926312. 7666206817	yashrajpatil590@gmail.com	Nikam Institute of Technology (Polytechnic) Dhule
SAINDANE SWAPNIL CHANDRAKANT	8421142545	swapnilsaindane98@gmail.com	Nikam Institute of Technology (Polytechnic) Dhule
PATHAN AAMIR KHAN ASHFAQUE AHEMAD	9021010151	Khanaamir111111@gmail.com	SSPM's Vasantrao More Polytechnic, Parola
Patil Prashant Rajendra	7507286704	patilprashant2420@gmail.com	Government Polytechnic Nandurbar
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Patil yashraj Nandlal	9637926312, 7666206817	yashrajpatil590@gmail.com	Nikam Institute of Technology (Polytechnic) Dhule
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Chaudhari Devendra Anil	7757870784	dacsac02@gmail.com	G. H. Raisoni Polytechnic, Jalgaon
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Avhad Rohit Rajendra	9325539270	rohitavhad2503@gmail.com	Government Polytechnic Dhule
Harshal Vasudev shinde	7719975705	harshal77199@gmail.com	Government polytechnic Nandurbara
Devendra Anil Chaudhari	7757870784	dacsac02@gmail.com	G.H. Raisoni Polytechnic, Jalgaon
Durgesh Sunil Mahajan	8530615472	durgeshmahajan31@gmail.com	SMDR Government polytechnic Dhule
NIKAM PRASHANT DNYANESHWAR	9881574473	prashantnikam2019@gmail.com	Government Polytechnic Dhule
Nerkar Rahul Barku	8767522381	rahulnerkar21303@gmail.com	Government polytechnic dhule
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Sakshi Sunilrao Nikam	7262081308	sakshinikam600@gmail.com	Government polytechnic dhule
Deore chetan Sunil	8007784752	Chikhudeore@gmail.com	Government polytechnic dhule
UDAY SURESH RAGADE	8208886026	udayragade482002@gmail.com	S.M.D.R GOVERNMENT POLYTECHNIC DHULE
Himanshu Pravin Yeole	9049623351	yeolehimanshu2002@gmail.com	G. H. Raisoni Polytechnic Jalgaon
Gunvant Dinkar Patil	7798581693	gunvantpatil4545@gmail.com	Government Polytechnic Nandurbar
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Ingale Harshal Vijay	9359519789	ingaleharshalv@gmail.com	S.M.D.R. Government Polytechnic, Dhule
Jadhav Yash Sanjay	9359867943	yashj1506@gmail.com	S.S.V.P's.bapusaheb shivajirao deore polytechnic dhule
Ahire suraj lalu	9325439213	Pintuahire1@gmail.com	SMDR GOVERNMENT POLYTECHNIC DHULE
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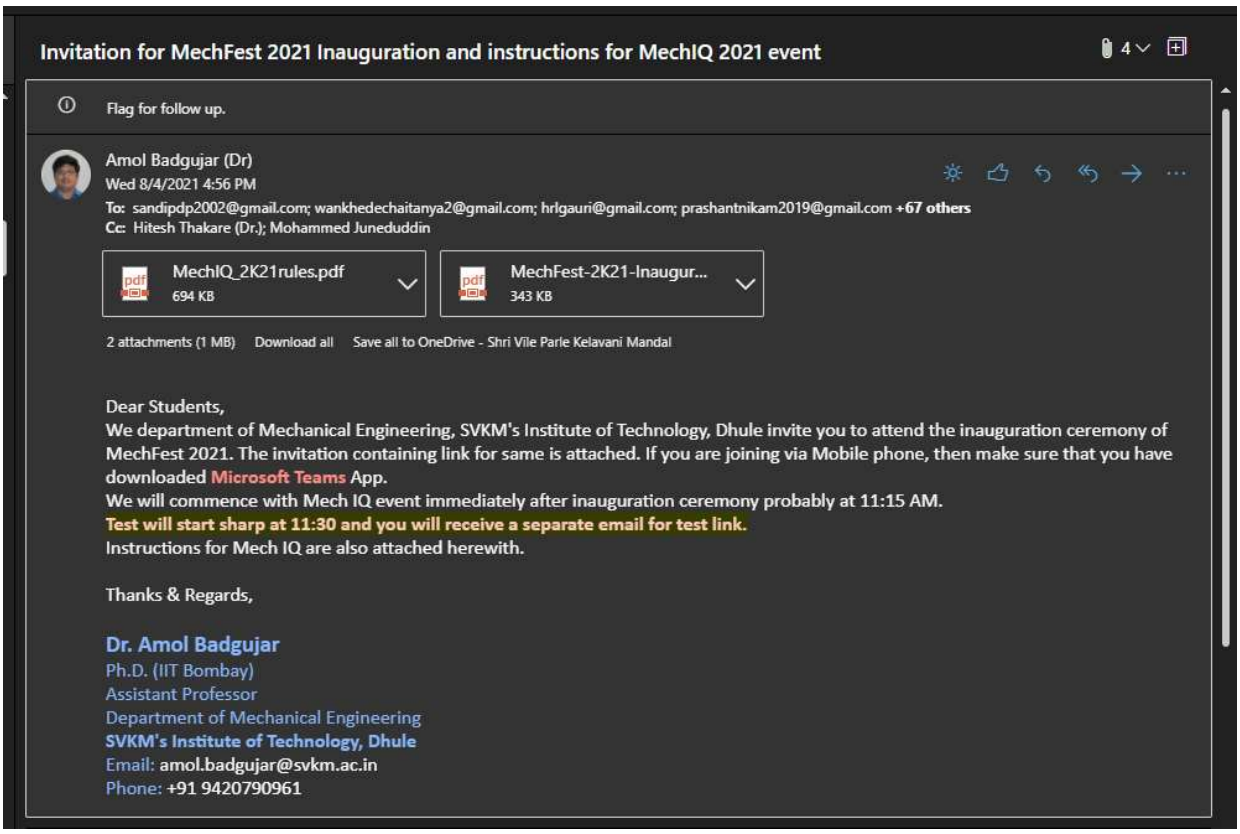
Chambhar Ravi Raju	8208709661	chambharr9@gmail.com	R C Patel polytechnic, shirpur
Pawara Rakesh Madan	8007374615	rakeshpawara650@gmail.com	Government Polytechnic Nandurbar
Sandip Gulabrao Dhole	9373194356	sandipdp2002@gmail.com	g p dhule
Mansi Vijay Chavan	9373621728	mavch10112001@gmail.com	Goverment polytechnic,dhule.
Dipanjali Sharad Patil	8007475674	dipanjalipatil1121@gmail.com	Government polytechnic dhule
Urvashi Sudhakar Bagul	7990965973	ayushibagul163@gmail.com	Government polytechnic dhule
Mali Vishal Ashok	7498386808	vishalmali15714@gmail.com	S.M.D.R.Government Polytecnique Dhule
PAGARE CHAITANYA JAYVANT	9373168944	chaitanya8903@gmail.com	S.M.D.R. Government Polytechnic Dhule
LOHAR SACHIN VASUDEO	9561758806	sachhu6699@gmail.com	SSPM's Vasantrao More Polytechnic
Manyar Mohammad Ali Mohammad Raza	8793150774	mohammadali2314@gmail.com	Ahinsa Polytechnic Dondaicha

3. Screenshots of emails were sent to the participants after registration was closed.



Invitation for MechFest 2021 Inauguration and instructions for MechIQ 2021 event

4

Flag for follow up.

Amol Badgujar (Dr)
Wed 8/4/2021 4:56 PM

To: sandipdp2002@gmail.com; wankhedechaitanya2@gmail.com; hrlgauri@gmail.com; prashantnikam2019@gmail.com **+67 others**
Cc: Hitesh Thakare (Dr.); Mohammed Juneduddin

MechIQ_2K21rules.pdf
694 KB

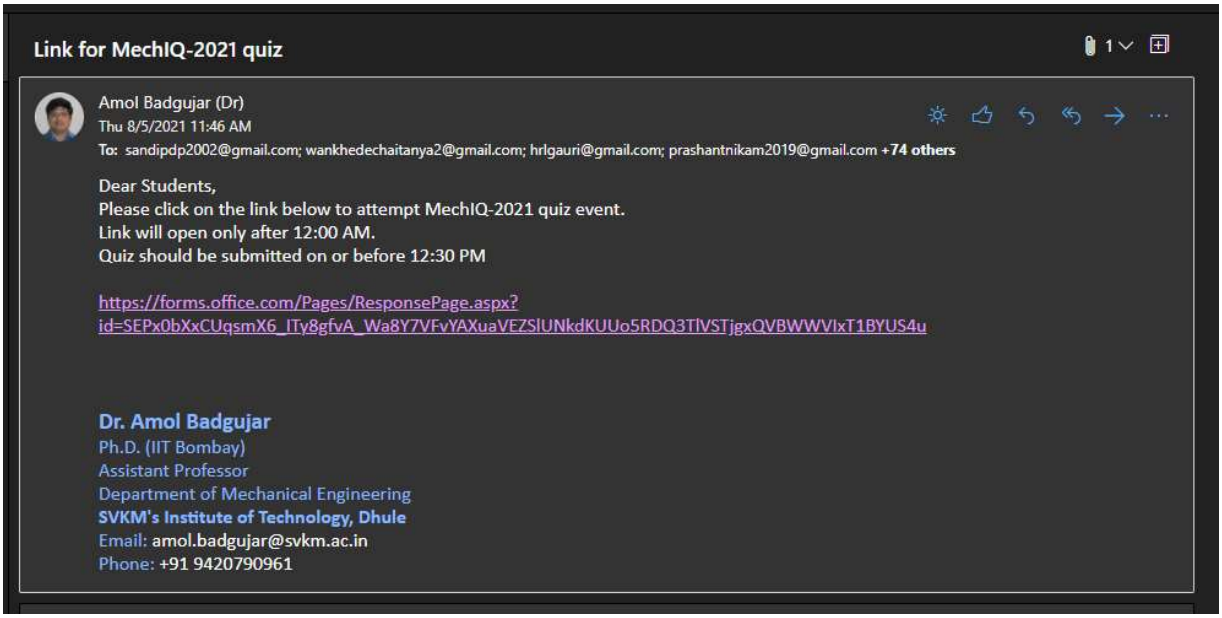
MechFest-2K21-Inaugur...
343 KB

2 attachments (1 MB) Download all Save all to OneDrive - Shri Vile Parle Kelavani Mandal

Dear Students,
We department of Mechanical Engineering, SVKM's Institute of Technology, Dhule invite you to attend the inauguration ceremony of MechFest 2021. The invitation containing link for same is attached. If you are joining via Mobile phone, then make sure that you have downloaded **Microsoft Teams** App.
We will commence with Mech IQ event immediately after inauguration ceremony probably at 11:15 AM.
Test will start sharp at 11:30 and you will receive a separate email for test link.
Instructions for Mech IQ are also attached herewith.

Thanks & Regards,

Dr. Amol Badgujar
Ph.D. (IIT Bombay)
Assistant Professor
Department of Mechanical Engineering
SVKM's Institute of Technology, Dhule
Email: amol.badgujar@svkm.ac.in
Phone: +91 9420790961



Link for MechIQ-2021 quiz

1

Amol Badgujar (Dr)
Thu 8/5/2021 11:46 AM

To: sandipdp2002@gmail.com; wankhedechaitanya2@gmail.com; hrlgauri@gmail.com; prashantnikam2019@gmail.com **+74 others**

Dear Students,
Please click on the link below to attempt MechIQ-2021 quiz event.
Link will open only after 12:00 AM.
Quiz should be submitted on or before 12:30 PM

https://forms.office.com/Pages/ResponsePage.aspx?id=SEPx0bXxCUqsmX6_ITy8gfvA_Wa8Y7VFvYAXuaVEZSlUNkdKUUo5RDQ3TlVSTjgxQVBWWVIxT1BYUS4u

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Assistant Professor
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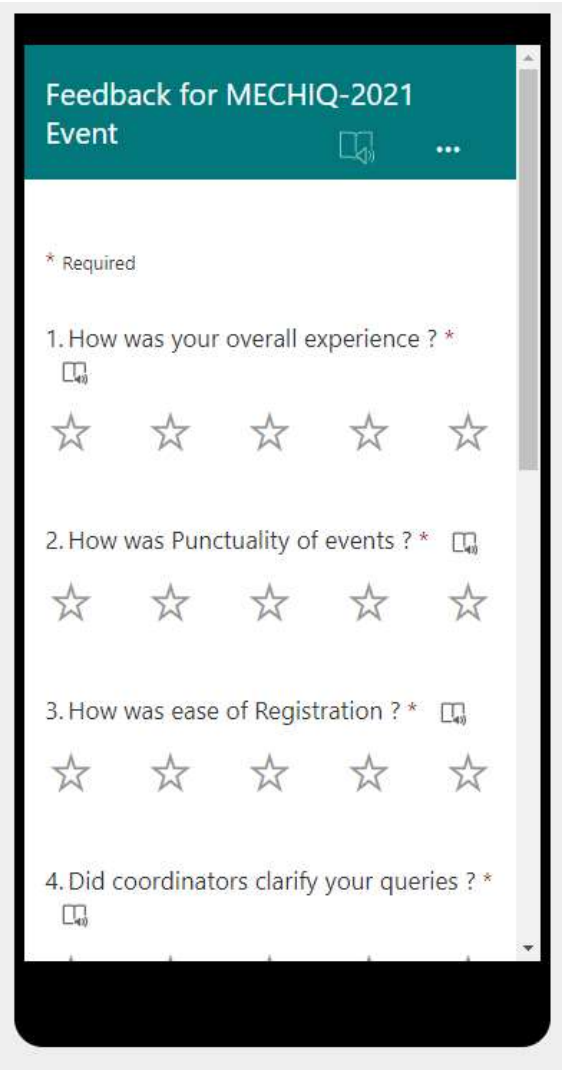
SVKM's Institute of Technology, Dhule
Email: amol.badgujar@svkm.ac.in
Phone: +91 9420790961

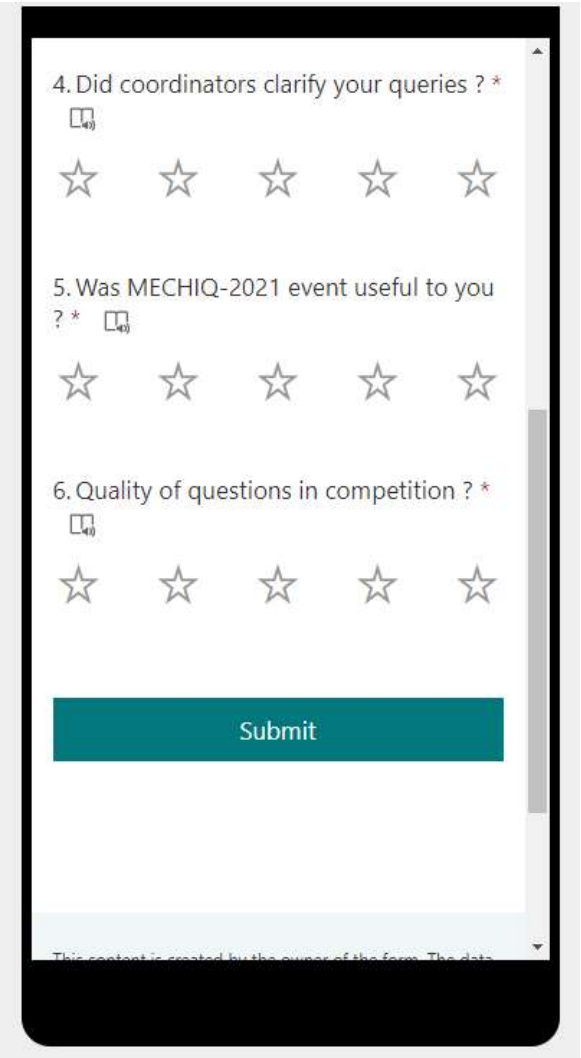
4. Rules/Instruction of the events

5. The sample Winner certificate

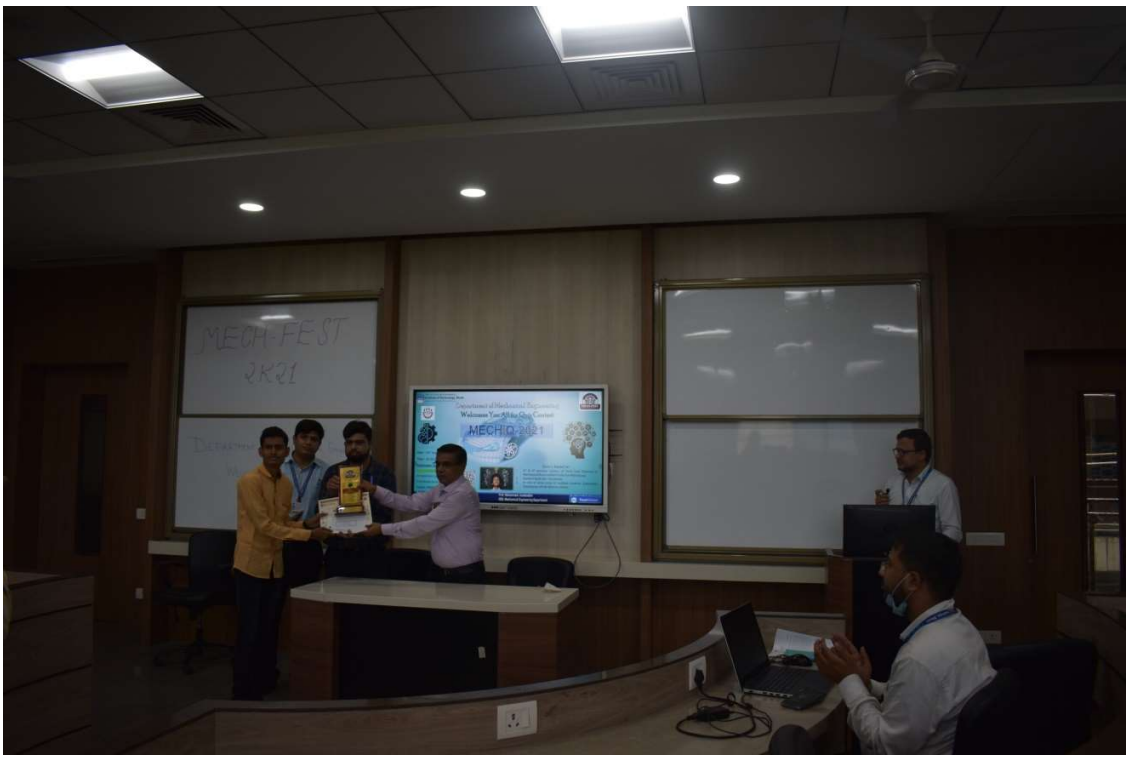
The sample Participant certificate

6. Feedback form -screenshots





7. **Image taken during valedictory function, showing the winners receiving prized (17th August-2021)**




MECH-FEST
2K21
Department of Mechanical Engineering
Felicitation of Winners
MECH-FEST
2K21

Shri Vile Parle Kelavani Mandal's

INSTITUTE OF TECHNOLOGY, DHULE

Department of Mechanical Engineering

Report on

"*MechFest-2K21_Mechanizer*_One Day National Level Project Competition"

The Project-Based Learning approach creates a constructive learning environment in which students construct their own Projects. In order to improve learning environment, SVKM's Institute of Technology, Department of Mechanical Engineering organised a Project Competition for students. So, Online One Day National Level Project Competition was organised for Diploma Mechanical Engineering by SVKM's IOT, Dhule on 7th of August 2021.

Students of various diploma colleges of different streams invited for competition. Students had presented and demonstrated their projects in presence of Judges, Head of Department and departmental Faculties.The details of competition are:

MechFest-2K21_Mechanizers	
Date of Event	7th August 2021
Time	10:15 AM to 4:00 AM
Total No. Participants (Team)	09
Name of Judges for Event	Prof. Yogesh D. Sonawane Prof. Satish R. Patil

The Projects are evaluated on the Following Criteria and some snapshots are attached below:

Sr. No.	Criteria	4	3	2	1
1	Concept (Project idea with conceptual mapping)				
2	Technical (Project Supported with technical literature)				
3	Navigation (Flow of Presentation)				
4	Grammar and Spelling				

Figure 1: Brochure of Event

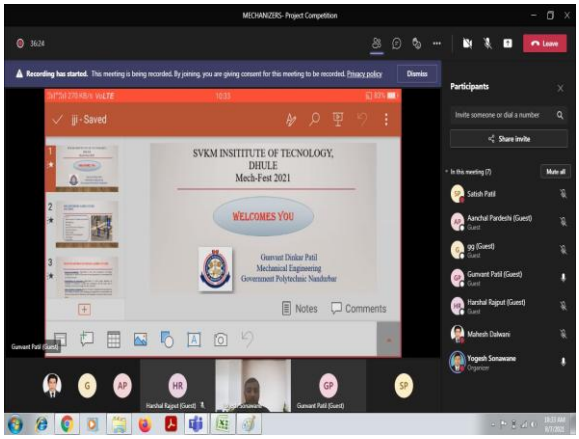


Figure 2: Presentation by Participant

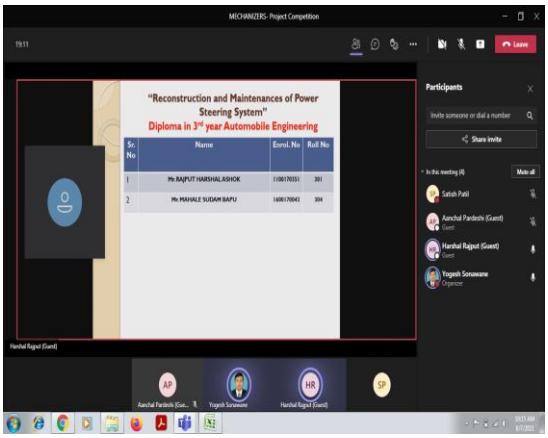


Figure : Presentation by Participant

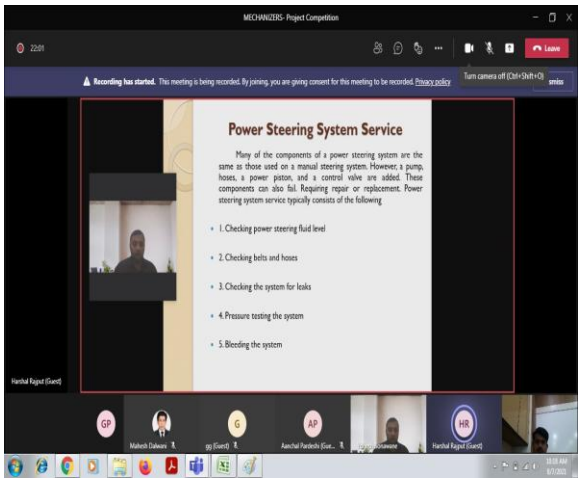


Figure 4: Presentation by Participant

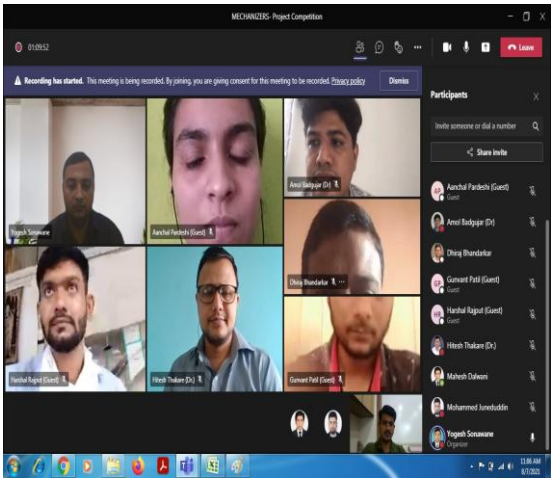


Figure 5: Vote of Thanks to all

Figure 7: Winners of Mechanizers

Figure 7: Certificate of Participation

Prof. Yogesh Sonawane
Event coordinator

Prof. Satish Patil
Event coordinator

Prof. Mohammed Juneduddin
HOD, Mechanical Engg. Dept.

Enclosures

1. List of students Registered
2. List of Student Successfully Participated
3. Rules of Event
4. Sample Certificates
5. Feedback form Screenshots
6. Images of Valedictory Function
7. Evaluation Sheets.

1. List of students Registered

Sr No	Name of the Candidate	Mobile Number	Topic Name	College Name
1	Rajput Harshal Ashok	7741899048	Maintenances of power Stering System	Government Polytechnic Dhule
	Mahale Sudam Bapu	8605071692		
2	Prakash bhausing pawara	9307628035	Solar water distillation	R. C. Patel Polytechnic, Shirpur
3	Patil Gunvant Dinkar	7798581693	Multipropose Agriculture Machine	Government Polytechnic Nandurbar
4	Shaikh shoeb shaikh Mukhtar	9028134787	Show working of I C Engine	Nikam Institute of Technology (Polytechnic)
5	Himanshu Pravin Yeole	9049623351	Fabrication of Paper Plate Making Machine	G.H.Raisoni Polytechnic Jalgaon
	Devendra Anil Chaudhari	7757870784		
6	PAWARA DINESH KUSHAL	94202 61394	"SPRING LOADED MATERIAL HANDLING"	Nikam Institute of Technology (Polytechnic)
7	vishal Rane	9422774254	Vaccum assisted climber	Gh raisoni polytechnic jalgaon
8	Tushar ShreeKrishna mahajan	8263832557	Soller parabolic water heating system	R. C. Patel Polytechnic, Shirpur
9	AANCHAL SATISH PARDESHI	8530490320	MINI HYDRAULIC PRESS MACHINE	Nikam Institute of Technology (Polytechnic)

2. List of Student Successfully Participated

Sr No	Name of the Candidate	Mobile Number	Topic Name	College Name
1	Rajput Harshal Ashok	7741899048	Maintenances of power Stering System	Government Polytechnic Dhule
	Mahale Sudam Bapu	8605071692		
2	Patil Gunvant Dinkar	7798581693	Multipropose Agriculture Machine	Government Polytechnic Nandurbar
3	vishal Rane	9422774254	Vaccum assisted climber	Gh raisoni polytechnic jalgaon
4	AANCHAL SATISH PARDESHI	8530490320	MINI HYDRAULIC PRESS MACHINE	Nikam Institute of Polytechnic

3. Rules of Event

1. Participants are supposed to present their Final Year project along with the prototype model (optional).
2. Participants are supposed to make Power point presentation of slides should not be more than twelve, which should include brief introduction, technical data, analysis, findings, conclusion etc.
3. The title sheet of the Power Point Presentation should clearly bear the names of project group members, Contact number and details of the college they represent.
4. Maximum 4 students can participate in a group.
5. The decision of judges will be final and binding on all participants.

4. Winner and Sample Certificates

Shri Vile Parle Kelavani Mandal's

Institute of Technology, Dhule

Presents this

Certificate of Participation

This is to certify that, "**Anchal Satish Pardeshi**" of "Nikam Institute of Technology (Polytechnic)" has participated in the event **"MECHANIZERS- Project Competition"** organized by Department of Mechanical Engineering of SVKM's Institute of Technology, Dhule on **7th Aug 2021**.

Prof. Yogesh Sonawane	Prof. Satish Patil	Prof. Mohommad Juneduddin	Dr. Nilesh Salunke
Event Co-ordinator	Event Co-ordinator	Co-ordinator- Mech Dept,	Principal
SVKM's IOT Dhule	SVKM's IOT Dhule	SVKM's IOT Dhule	SVKM's IOT Dhule

Shri Vile Parle Kelavani Mandal's

Institute of Technology, Dhule

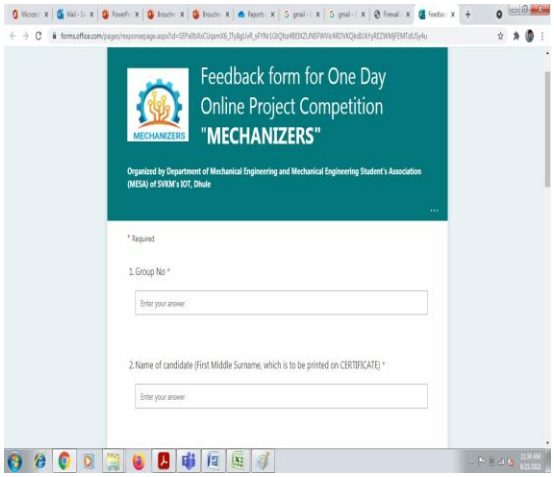
Presents this

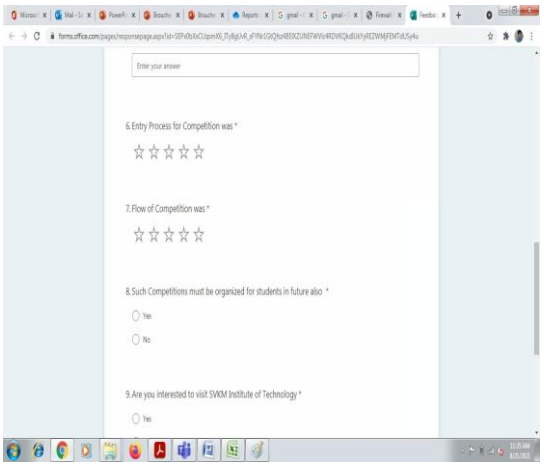
Certificate of Participation

This is to certify that, "**Aanchal Satish Pardeshi**" of "Nikam Polytechnic, Dhule" is **Winner / ~~Runner-Up~~ / ~~Participant~~** in the event **"MECHANIZERS- A Project Competition"** organized by Department of Mechanical Engineering of SVKM's Institute of Technology, Dhule on **7th Aug 2021**.

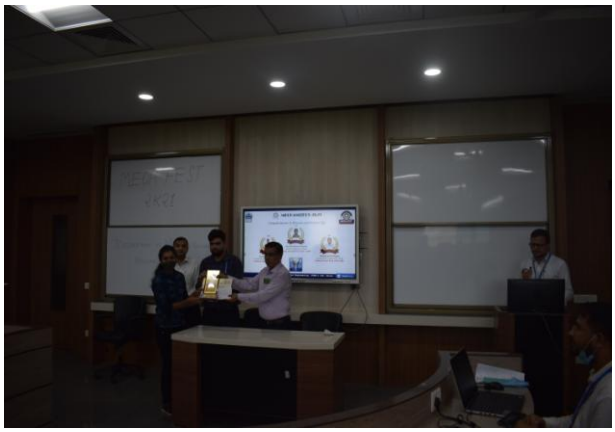
Prof. Yogesh Sonawane	Prof. Satish Patil	Prof. Mohommad Juneduddin	Dr. Nilesh Salunke
Event Co-ordinator	Event Co-ordinator	Co-ordinator- Mech Dept,	Principal
SVKM's IOT Dhule	SVKM's IOT Dhule	SVKM's IOT Dhule	SVKM's IOT Dhule

5. Feedback form Screenshots





6. Images of Valedictory Function



7. Evaluation Sheets

1. Anchal Pardeshi

Sr. No.	Criteria	4	3	2	1
1	Concept (Project idea with conceptual mapping)	4			
2	Technical (Project Supported with technical literature)		3		
3	Navigation (Flow of Presentation)	4			
4	Grammar and Spelling	4			
	Total	**15**			

2. Gunvant Patil

Sr. No.	Criteria	4	3	2	1
1	Concept (Project idea with conceptual mapping)	4			

2	Technical (Project Supported with technical literature)		3		
3	Navigation (Flow of Presentation)		3		
4	Grammar and Spelling	4			
	Total	**14**			

3. Harshal Rajput and Nishant Mahale

Sr. No.	**Criteria**	**4**	**3**	**2**	**1**
1	Concept (Project idea with conceptual mapping)	4			
2	Technical (Project Supported with technical literature)		3		
3	Navigation (Flow of Presentation)			2	
4	Grammar and Spelling		3		
	Total	**12**			

SHRI VILE PARLE KELAVANI MANDAL'S

Institute of Technology, Dhule

Approved by AICTE | Affiliated to DBATU

CAD WAR

Event Report

Abstract

CAD-WAR 2k21 is an event which was organized on 10 August 2021 by the Department of Mechanical Engineering, Shri Vile Parle Kelavani Mandal's (SVKM's) Institute of Technology, Dhule under the umbrella of MechFest 2k21.

Event Coordinators

1. Prof. Bhushan Behede
2. Prof. Dhiraj Bhandarkar

INDEX

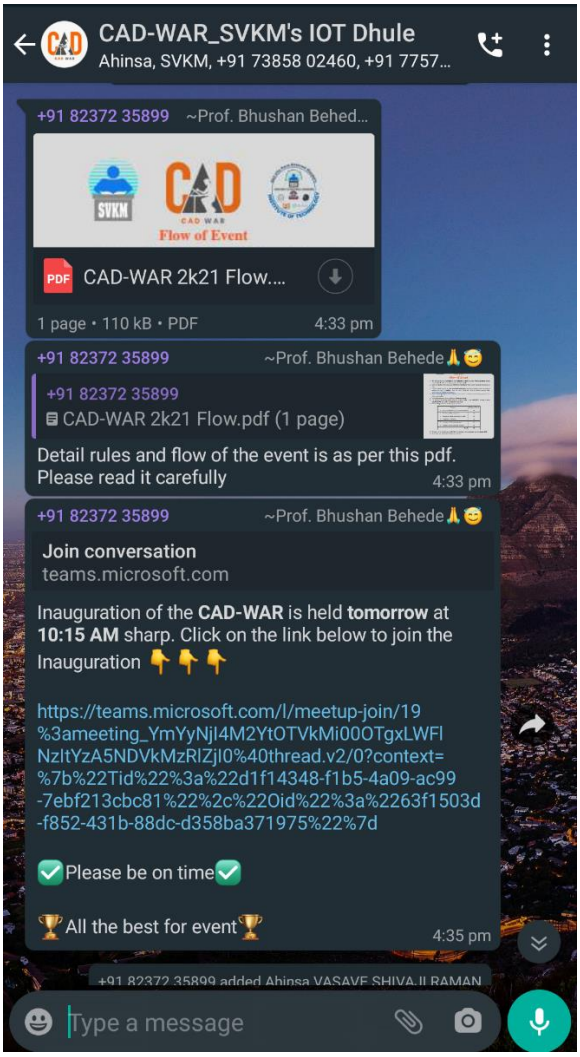
1. Event Introduction

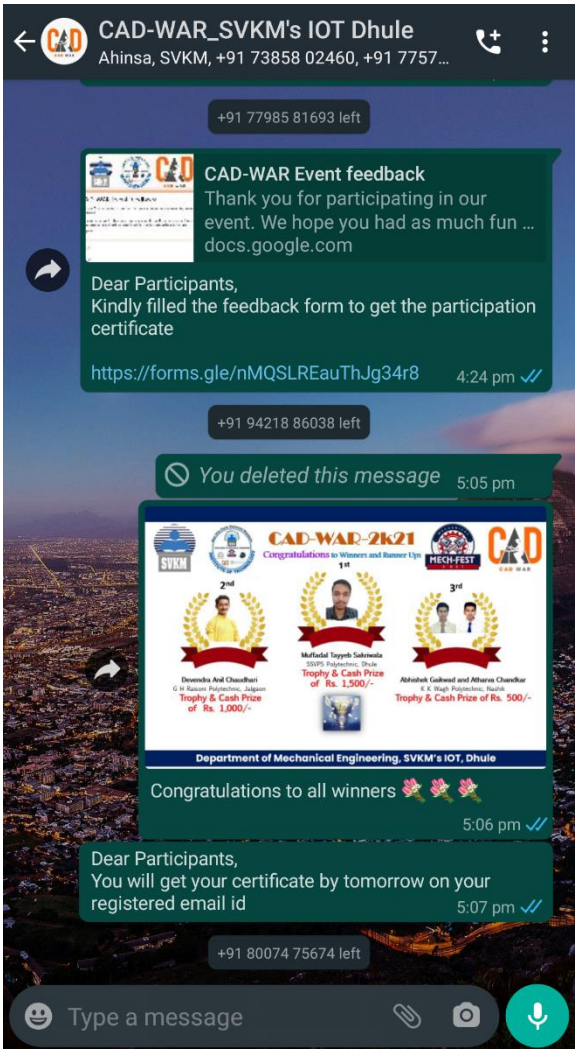
CAD-WAR 2k21 organized by the Department of Mechanical Engineering, SVKM Institute of Technology, Dhule under the umbrella of MechFest 2k21

CAD-WAR is a technical event based on software AUTOCAD/INVENTOR PROFESSIONAL/AUTODESK FUSION 360/SIEMENS NX/SOILD EDGE/SOLID-WORKS/CATIA/CREO/Any other. Design of product is everything. Design is the primary stage of manufacturing. This event is a challenge for everyone. You can show your skills or prove to yourself that you are a unique designer. You can grow by design knowledge and improve your skills by this event individually. Therefore, let us show your skills at this event. The fastest and Skillful person will be the winner of this event.

2. Event Flyer

3. Publicity of the Event





4. Rules/Instruction of the events

CAD WAR

Flow of Event

1. We will provide you **2 problems** on your **registered E-mail ID** and the **WhatsApp group** created exactly at **10:30 AM**, out of which you have to select **any 1**.
2. Draw a **3D model** of the same in the **software of your choice**, which you have given in the registration form.
3. You can upload your file in .**iges (preferred)/.part/.jpeg** or any type of format as per your selected software by **Any 1 member** from the team, filling this form to submit drawing files: https://forms.gle/GPJqPr7vQgSeuNEw7
4. If you cannot upload your answer file/files, then contact coordinators immediately well before the submission deadline.
5. Please **do not post** the answer file in any **WhatsApp group**.
6. The total time for drawing and uploading the answers is **3 hrs**. i.e. up to **01:30 PM.** Answers received **after 01:30 PM will not be considered for the event**.
7. **The marking scheme** of the drawing is as follows -

Criteria	Maximum Marks
1. Proper and effective use of tools/commands	10
2. Manufacturability of the part	10
3. Drawing as per the dimensions provided	10
4. Completion of Drawing	10
5. Accuracy and Time management	05
6. Aesthetic features applied to the parts	05
Total	**50**

8. Winners will be declared after **4:30 PM**. E-Certificates will be dispatched up to **11 august 2021**.
9. If you have, any queries then feel free to contact us.

Prof. Bhushan C. Behede
8237235899

Prof. Dhiraj Bhandarkar
9511715313

5. Registration details

5.1 Registration Form:

CAD-WAR Event registration

*Event Date and Timing: 10 August - 10:30 AM to 01:30 PM

*Event Details:

CAD-WAR is a technical event based on software AUTOCAD/INVENTOR PROFESSIONAL/AUTODESK FUSION 360/SIEMENS NX/SOILD EDGE/SOLID-WORKS/CATIA/CREO/Any other. Design of product is everything. Design is primary stage of manufacturing. This event a challenges to everyone. You can show your skills or prove yourself that you are a unique designer. You can grow by design knowledge and improve your skills by this event individually. Therefore, let's show your skills in this event. Fastest and Skillful person will be Winner of this event.

*Event Rules:

---> This event is based on creating a 3D CAD model by using any CAD Software of your choice.
---> A problem statement (2D Drawing Views) will be given and accordingly, participants need to create a 3D model.
---> Maximum 2 participants per team
---> In case of tie, Submission Timestamp will be a decisive criteria

*If you are using WhatsApp then please Join WhatsApp group - https://chat.whatsapp.com/CUj0wxw1Evn1prHoKAQ8gg

* Required

1. Number of students in a Group (Maximum-2 and minimum-1 student can participate) *

Mark only one oval.

- ◯ 1
- ◯ 2

2. Select the CAD Software of your choice from the list *

Mark only one oval.

- ◯ Solidworks
- ◯ AutoCAD
- ◯ CATIA
- ◯ PRO-E
- ◯ AutoCAD Inventor
- ◯ Creo Parametric 3D Modeling Software
- ◯ Fusion 360
- ◯ Inventor
- ◯ Solidedge
- ◯ ANSYS
- ◯ Other: _____

3. Full Name of Participant No. 1 (Surname First) *

_____

4. Mobile Number of Participant No. 1 (Preferably WhatsApp) *

_____

5. Email ID of Participant No. 1 *

_____

6. Diploma Branch of Participant No. 1 *

Mark only one oval.

- ◯ Automobile Engineering
- ◯ Mechanical Engineering
- ◯ Production Engineering
- ◯ Other

7. College of Participant No. 1 *

Mark only one oval.

- ◯ Shri Shivaji Vidya Prasarak Sanstha's Late Bapusaheb Shivajirao Deore Polytechnic, Dhule
- ◯ Adarsh Polytechnic, Dhule
- ◯ Government Polytechnic Dhule
- ◯ Nagaon Education Society, S Gangamai Polytechnic, Nagaon, Dhule
- ◯ Netaji Subhashchandra Bose Education Trust's Netaji Polytechnic College
- ◯ Nikam Institute of Technology (Polytechnic)
- ◯ R. C. Patel Polytechnic, Shirpur
- ◯ Sanjay Education Society's Polytechnic
- ◯ Shri Jaykumar Rawal Institute of Technology, Dondaicha (Polytechnic)
- ◯ Ves's Ahinsa Polytechnic, Dondaicha
- ◯ Other: _____

8. Parent's Mobile Number of Participant No. 1 (Prefer WhatsApp)

_____

9. Have you joined WhatsApp group?

Mark only one oval.

- ◯ Yes
- ◯ No (I don't use WhatsApp)

Details of Participating Member No. 2

Please enter the details of Second member of your team. If your team contains only 1 Member then leave the questions and finally submit the form.

10. Full Name of Participant No. 2 (Surname First) *

_____

11. Mobile Number of Participant No. 2 (Preferably WhatsApp) *

_____

12. Email ID of Participant No. 2 *

_____

13. Diploma Branch of Participant No. 2 *

Mark only one oval.

- ◯ Automobile Engineering
- ◯ Mechanical Engineering
- ◯ Production Engineering
- ◯ Other

14. College of Participant No. 2 *

Mark only one oval.

- ◯ Shri Shivaji Vidya Prasarak Sanstha's Late Bapusaheb Shivajirao Deore Polytechnic, Dhule
- ◯ Adarsh Polytechnic, Dhule
- ◯ Government Polytechnic Dhule
- ◯ Nagaon Education Society, S Gangamai Polytechnic, Nagaon, Dhule
- ◯ Netaji Subhashchandra Bose Education Trust's Netaji Polytechnic College
- ◯ Nikam Institute of Technology (Polytechnic)
- ◯ R. C. Patel Polytechnic, Shirpur
- ◯ Sanjay Education Society's Polytechnic
- ◯ Shri Jaykumar Rawal Institute of Technology, Dondaicha (Polytechnic)
- ◯ Ves's Ahinsa Polytechnic, Dondaicha
- ◯ Any Other college

15. Parent's Mobile Number of Participant No. 2 (Prefer WhatsApp)

_____

16. Have you joined WhatsApp group?

Mark only one oval.

- ◯ Yes
- ◯ No (I don't use WhatsApp)

5.2 Link of the registration responses received from the participants

https://svkmmumbai-my.sharepoint.com/:x:/r/personal/mohammed_juneduddin_svkm_ac_in/Documents/MechFest-21/CADWAR/Registraion%20Details-Excel%20and%20.pdf%20File/CAD-WAR%20Event%20Registration%20Details.xlsx?d=w1210b22004e145e9b41601321367655e&csf=1&web=1&e=KPLanr

5.3 The total number of students registered: 18

5.4 List of Students who have registered

Sr No.	Full Name of Participant No. 1 (Surname First)
1	Patil yashraj Nandlal
2	Adake Aditya Balvant
3	Chaudhari Devendra Anil
4	Patil Gunvant Dinkar
5	PAWARA DINESH KUSHAL
6	Harshal Machhindra Shelar
7	Yeole Himanshu Pravin
8	Nikam Prashant Dnyaneshwar
9	Pathan Arbaz sikandar khan
10	Nilesh chaudhari
11	Abhishek gaikwad
12	Dipanjali Sharad Patil
13	Patil Yashraj Nandlal
14	Daspute Harshal Jitendra
15	Varade Param Anil
16	Shivaji raman vasave
17	Sakriwala muffadal tayyeb
18	Pardeshi aanchal satish

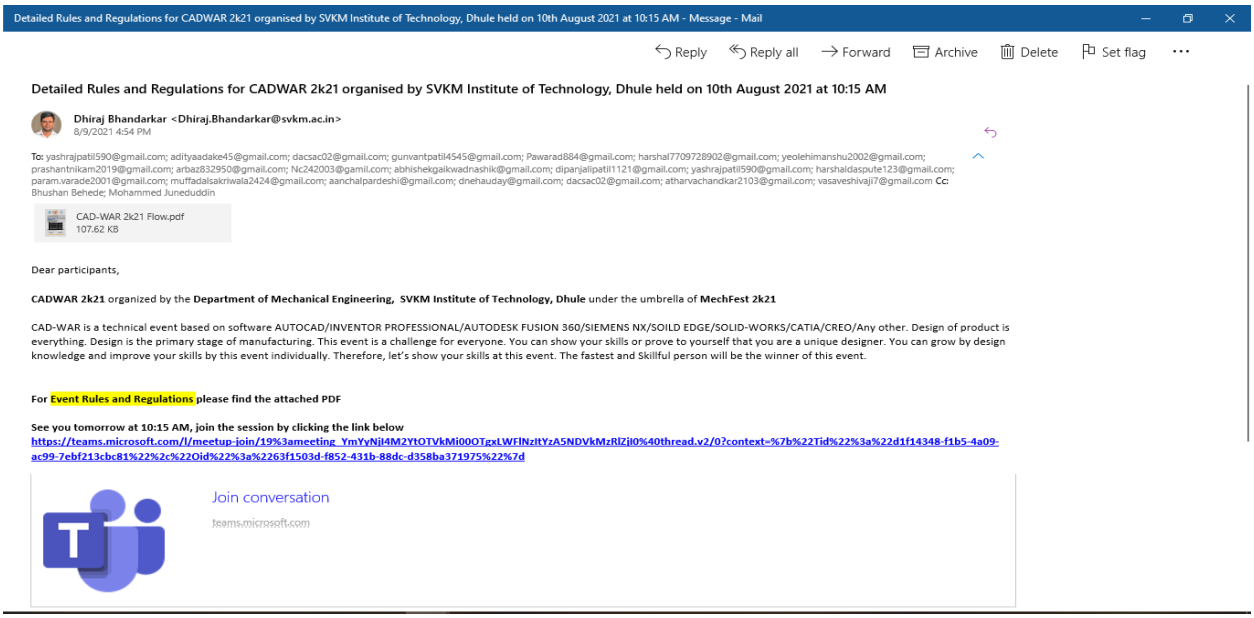
5.5 The total number of actual participation: 07

5.6 The list of actual participation

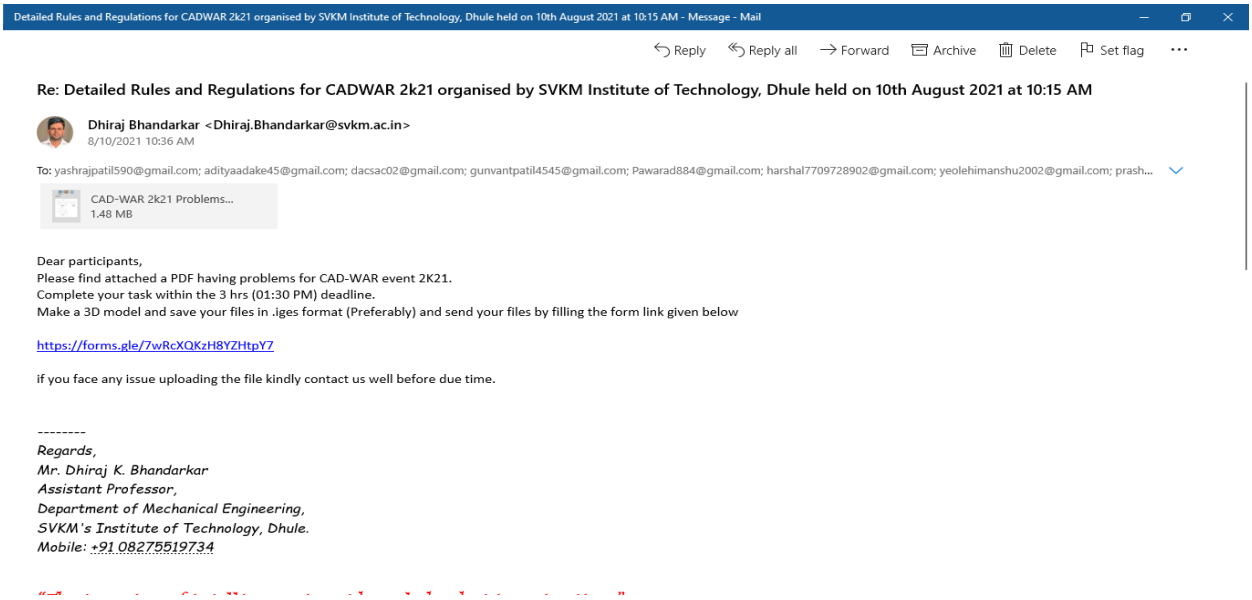
Sr. No.	Name of Participant No. 1	Name of Participant No. 2 (If you are single participant then leave it blank)
1	Harshal Daspute	-
2	Devendra Anil Chaudhari	
3	Abhishek Sunil Gaikwad	Atharva Ramesh Chandkar
4	Muffadal tayyeb sakriwala	
5	Aditya Balvant Adake	Neha Uday Deshpande
6	Param Anil Varade	
7	Pardeshi aanchal satish	
8	Dipanjali Sharad Patil	

6. Communication with Participants

Event Rules and Regulations communicate with participants through registered mail ID (Screenshots of emails were sent to the participants after registration was closed.)



Event Problems communicate with participants through registered mail ID (Screenshots of emails were sent to the participants after registration was closed.)



Detailed Rules and Regulations for CADWAR 2k21 organised by SVKM Institute of Technology, Dhule held on 10th August 2021 at 10:15 AM - Message - Mail

Reply | Reply all | Forward | Archive | Delete | Set flag | ...

Re: Detailed Rules and Regulations for CADWAR 2k21 organised by SVKM Institute of Technology, Dhule held on 10th August 2021 at 10:15 AM

Dhiraj Bhandarkar <Dhiraj.Bhandarkar@svkm.ac.in>
8/10/2021 10:36 AM

To: yashrajpatil590@gmail.com; adityaadake45@gmail.com; dacsac02@gmail.com; gunvantpatil4545@gmail.com; Pawarad884@gmail.com; harshal7709728902@gmail.com; yeolehimanshu2002@gmail.com; prash...

CAD-WAR 2k21 Problems...
1.48 MB

Dear participants,
Please find attached a PDF having problems for CAD-WAR event 2K21.
Complete your task within the 3 hrs (01:30 PM) deadline.
Make a 3D model and save your files in .iges format (Preferably) and send your files by filling the form link given below

https://forms.gle/7wRcXQKzH8YZHtpY7

if you face any issue uploading the file kindly contact us well before due time.

Regards,
Mr. Dhiraj K. Bhandarkar
Assistant Professor,
Department of Mechanical Engineering,
SVKM's Institute of Technology, Dhule.
Mobile: +91 08275519734

7. Conduction of the event

Event is conducted online on 10 August 2021 from 10:15 AM using Microsoft Teams. All the participants and faculties of Mechanical Engineering were invited to the inauguration ceremony.

7.1 Inauguration Ceremony

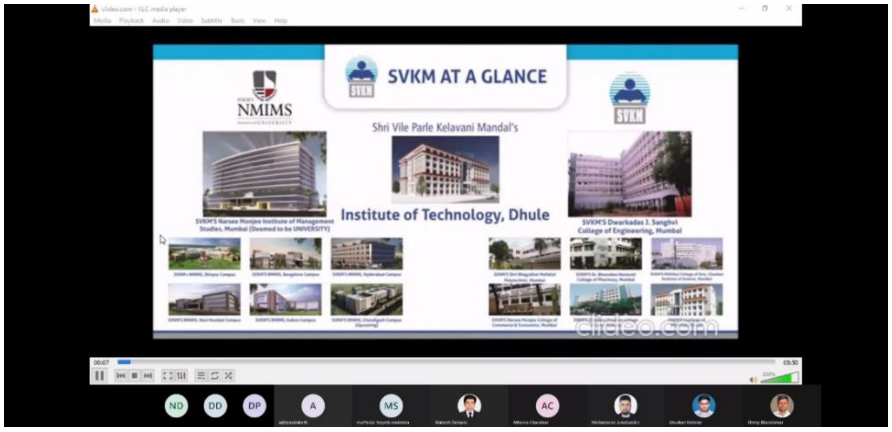
7.1.1 Link of the Inauguration ceremony:

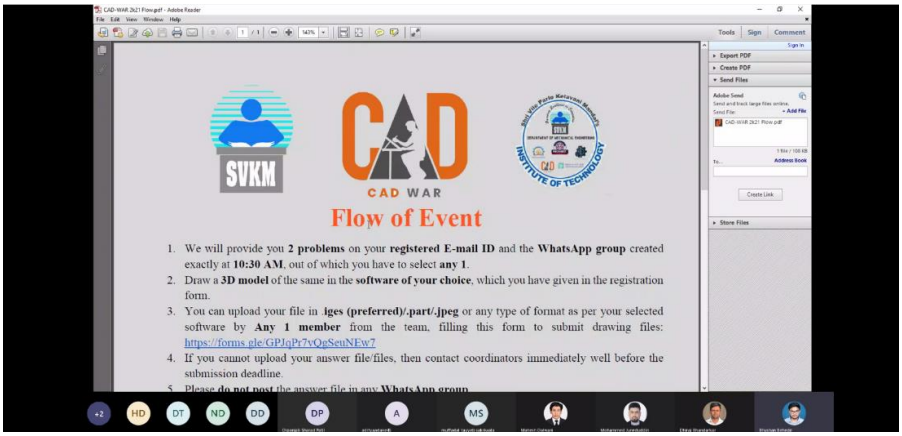
https://teams.microsoft.com/l/meetup-join/19%3ameeting_YmYyNjI4M2YtOTVkMi00OTgxLWFlNzItYzA5NDVkMzRlZjI0%40thread.v2/0?context=%7b%22Tid%22%3a%22d1f14348-f1b5-4a09-ac99-7ebf213cbc81%22%2c%22Oid%22%3a%2263f1503d-f852-431b-88dc-d358ba371975%22%7d

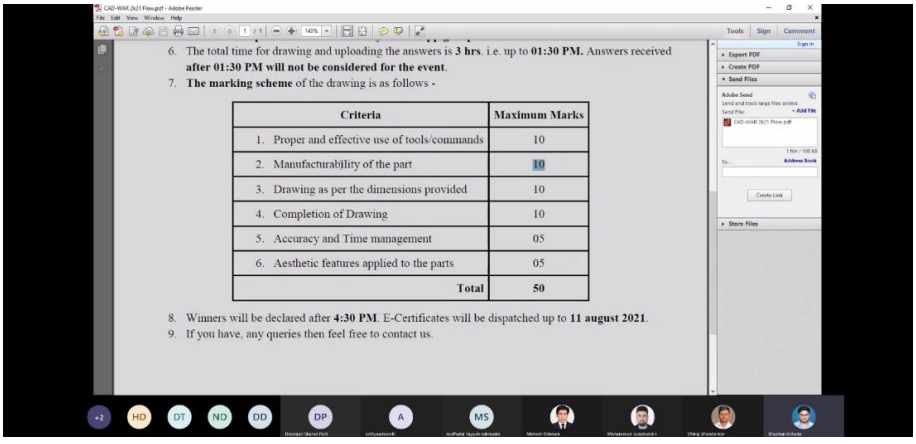
7.1.2 Recording of the Inauguration ceremony:

https://svkmmumbai-my.sharepoint.com/:v:/g/personal/mohammed_juneduddin_svkm_ac_in/EfZyiFzQdElEqni8HZ3BulsByHGGTaZy2nZn2pqQITcqOA?e=XyMeie

7.1.3 Screenshots during the Inauguration Ceremony:

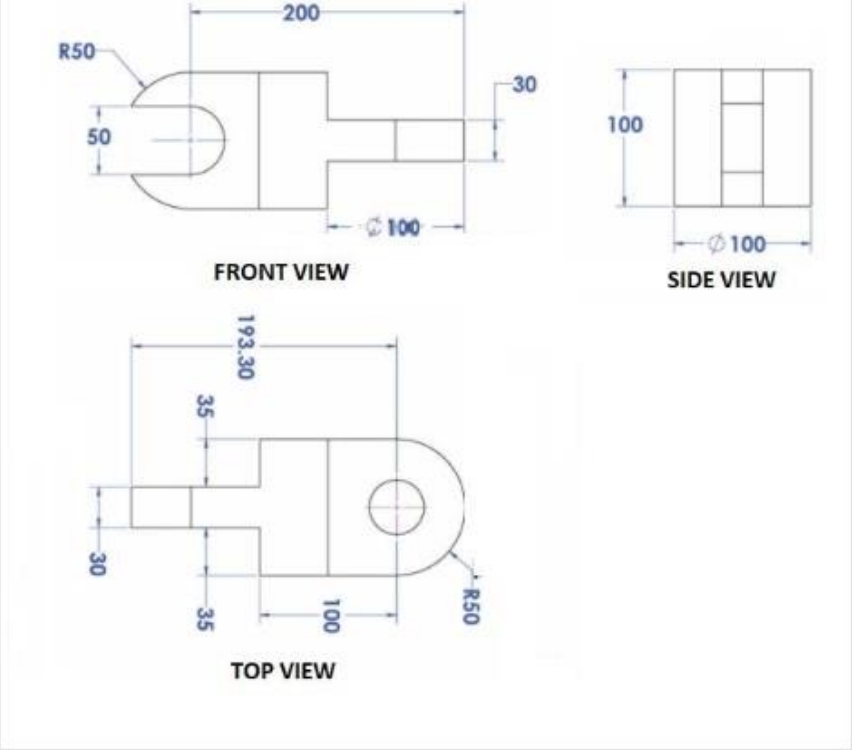




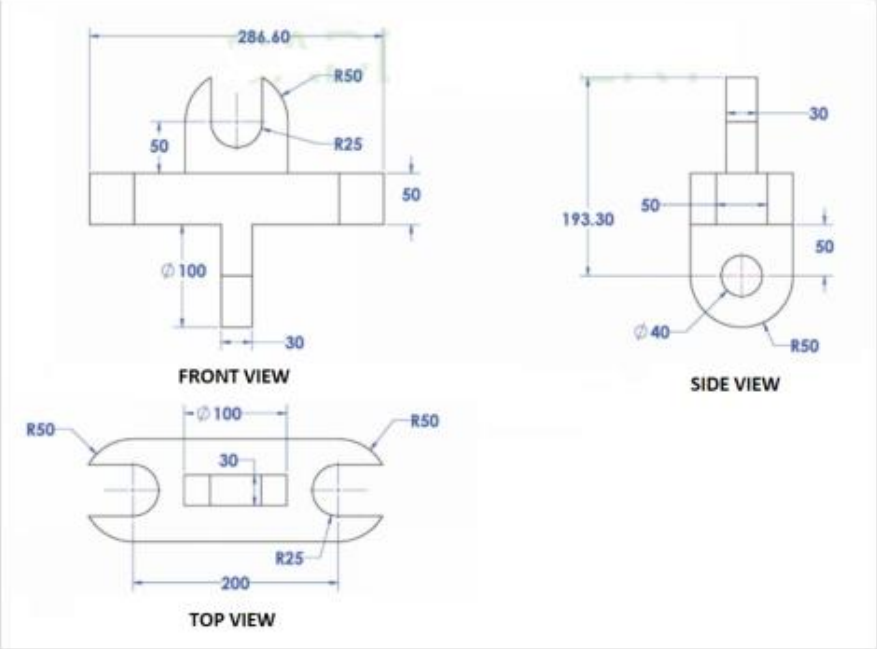


7.2 Problems given to the participants:

Problem No. 1



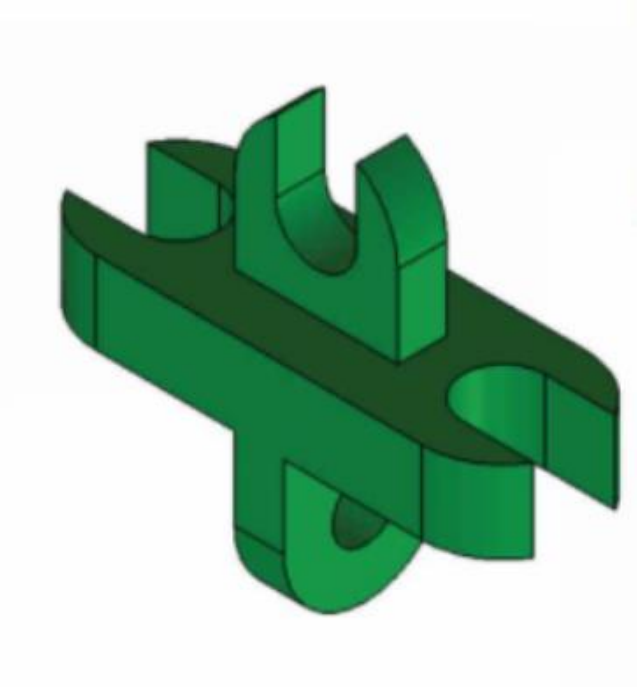
Problem No. 2


286.60
R50
50
R25
50
∅100
30
FRONT VIEW
30
193.30
50
50
∅40
R50
SIDE VIEW
R50
∅100
R50
30
R25
200
TOP VIEW

7.3 Standard Solution to the Problems given to the participants:

7.3.1 Solution of the Problem No. 1:

7.3.2 Solution of the Problem No. 2:



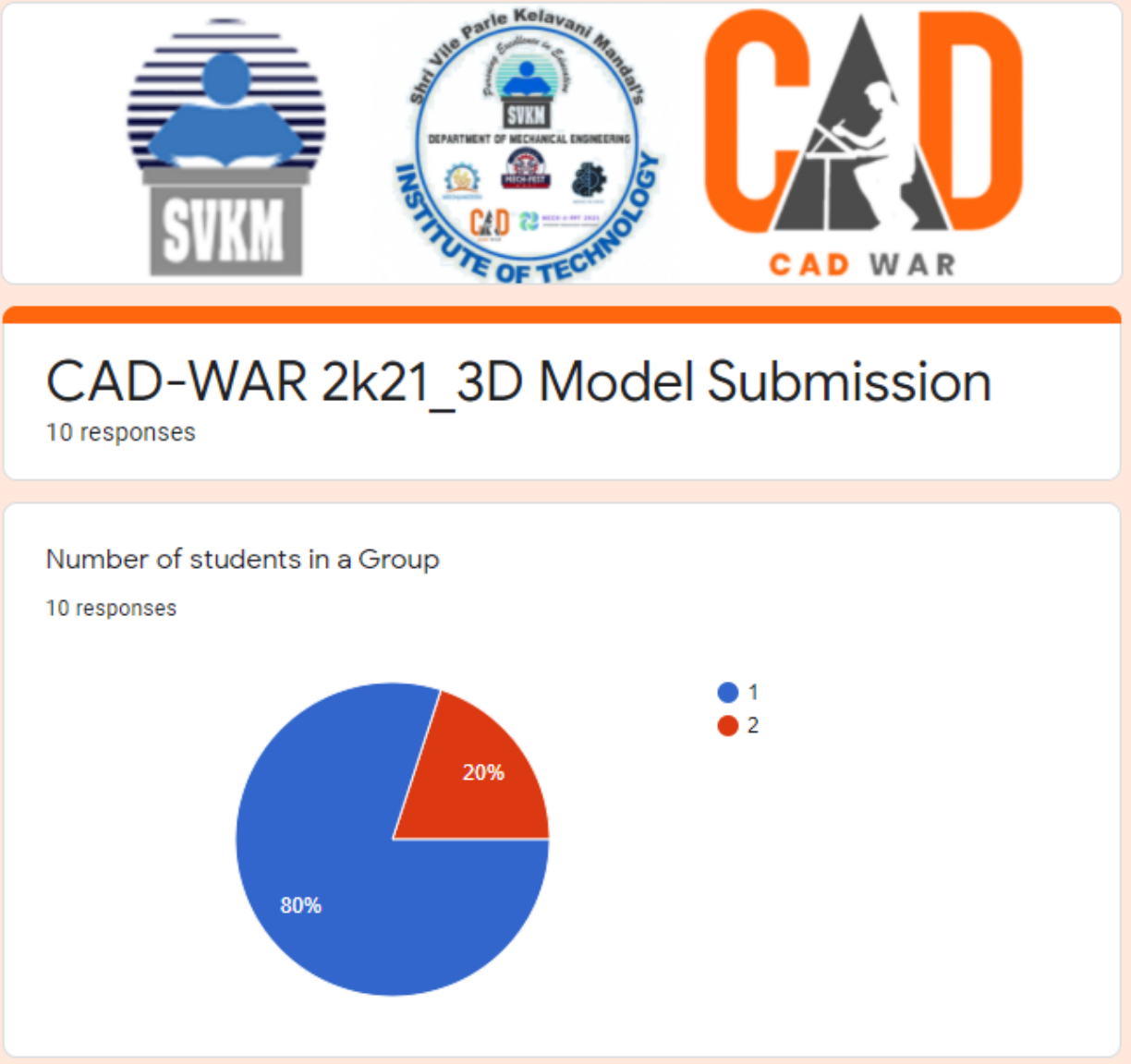
7.4 Submission of the 3D Model files

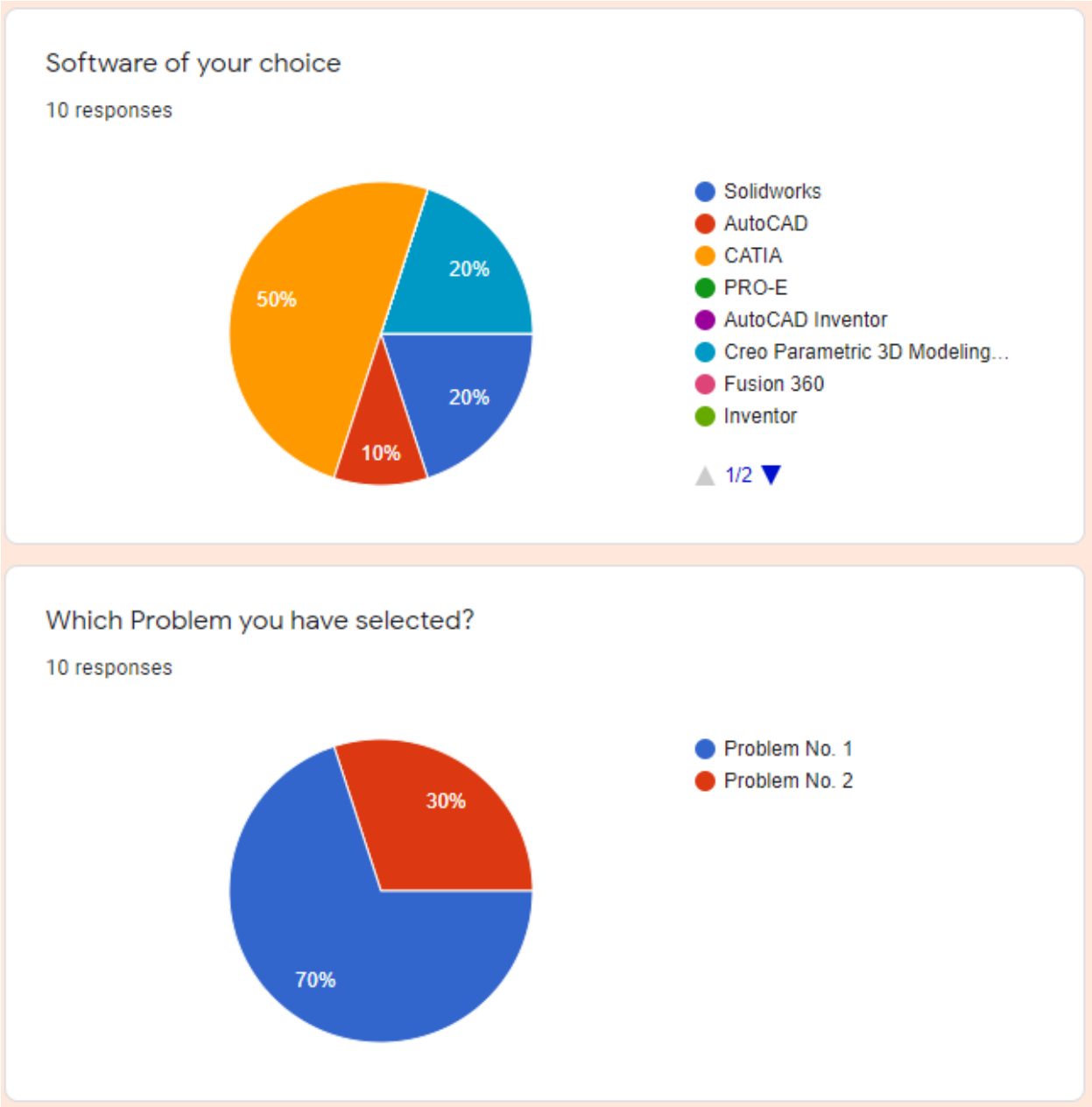
To take the submission from the participants, Google form is used. Participants submission is recorded and saved in Google drive as follows

7.4.1 Link of the Submission:

https://forms.gle/7wRcXQKzH8YZHtpY7

7.4.2 Summary of all submissions:



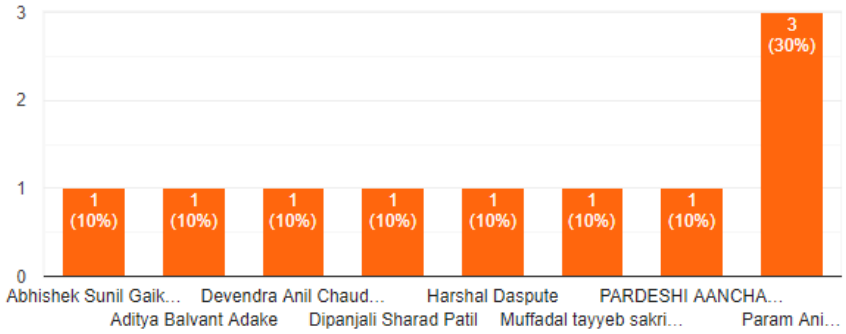

Software of your choice
10 responses
20%
50%
20%
10%
Solidworks
AutoCAD
CATIA
PRO-E
AutoCAD Inventor
Creo Parametric 3D Modeling...
Fusion 360
Inventor
1/2
Which Problem you have selected?
10 responses
30%
70%
Problem No. 1
Problem No. 2

Upload your Drawing file/files (You can upload up to 5 files)

10 responses

Name of Participant No. 1

10 responses



Name of Participant No. 2 (If you are single participant then leave it blank)

3 responses

-

Atharva Ramesh Chandkar

Neha Uday Deshpande

Upload I-Card photo of Participant no. 1 (issued by your Diploma college)

10 responses

Upload I-Card photo of Participant no. 2 (issued by your Diploma college)

2 responses

7.4.3 Link of Excel Spreadsheet of the final submissions received from the Participants:

https://svkmmumbai-my.sharepoint.com/:x:/g/personal/mohammed_juneduddin_svkm_ac_in/ER4X486ypN9KhpdyWsG2yr4BmmTJeLWAQtvPvwqICq4B7Q?e=E2LDQ7

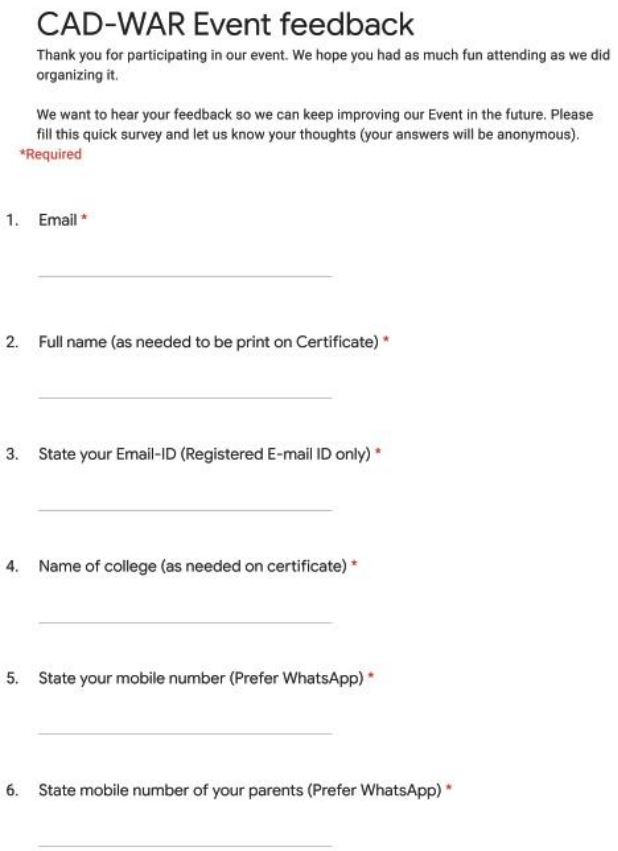
8. Feedback of the Participants

Feedback received from the participants via Google forms. Feedback link is shared with the participants before dispatching the E-Certificates.

8.1 Feedback form Link:

https://forms.gle/Tp4TdLXhsMsJXexRA

8.2 Feedback Questions:



CAD-WAR Event feedback

Thank you for participating in our event. We hope you had as much fun attending as we did organizing it.

We want to hear your feedback so we can keep improving our Event in the future. Please fill this quick survey and let us know your thoughts (your answers will be anonymous).

*Required

1. Email *
2. Full name (as needed to be print on Certificate) *
3. State your Email-ID (Registered E-mail ID only) *
4. Name of college (as needed on certificate) *
5. State your mobile number (Prefer WhatsApp) *
6. State mobile number of your parents (Prefer WhatsApp) *

11. How satisfied were you with the event? *

Mark only one oval.

	1	2	3	4	5	
Not very	◯	◯	◯	◯	◯	Very much

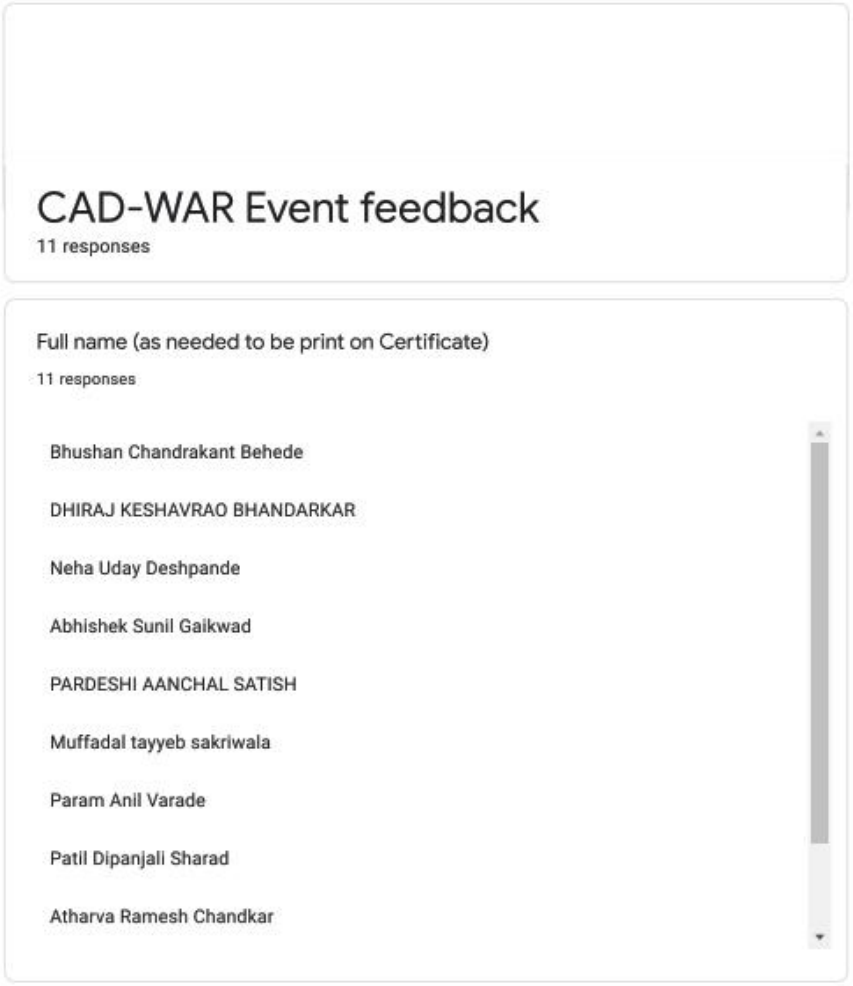
12. What were your key take away from this event?

_____

13. Any Suggestions for the further improvement of the event?

_____

8.3 Feedback received from the Participants:



CAD-WAR Event feedback

11 responses

Full name (as needed to be print on Certificate)

11 responses

Bhushan Chandrakant Behede

DHIRAJ KESHAVRAO BHANDARKAR

Neha Uday Deshpande

Abhishek Sunil Gaikwad

PARDESHI AANCHAL SATISH

Muffadal tayyeb sakriwala

Param Anil Varade

Patil Dipanjali Sharad

Atharva Ramesh Chandkar

State your mobile number (Prefer WhatsApp)

11 responses

8237235899

8275519734

7385802460

9665898952

8530490320

9421038692

9834441842

8007475674

8625951975

State mobile number of your parents (Prefer WhatsApp)

11 responses

9604266546

9561199220

9422230320

9423494774

9834441842

8007475674

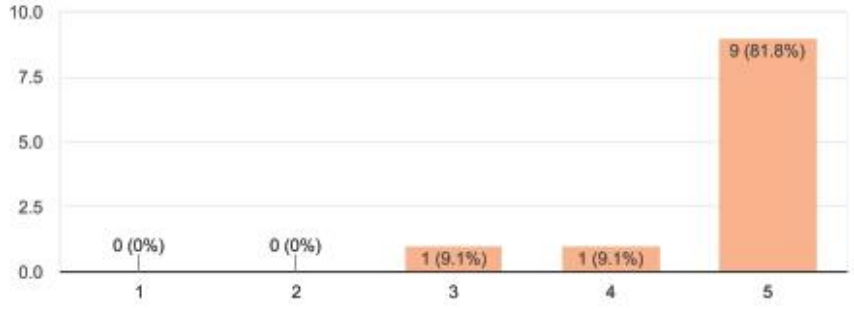
9595280059

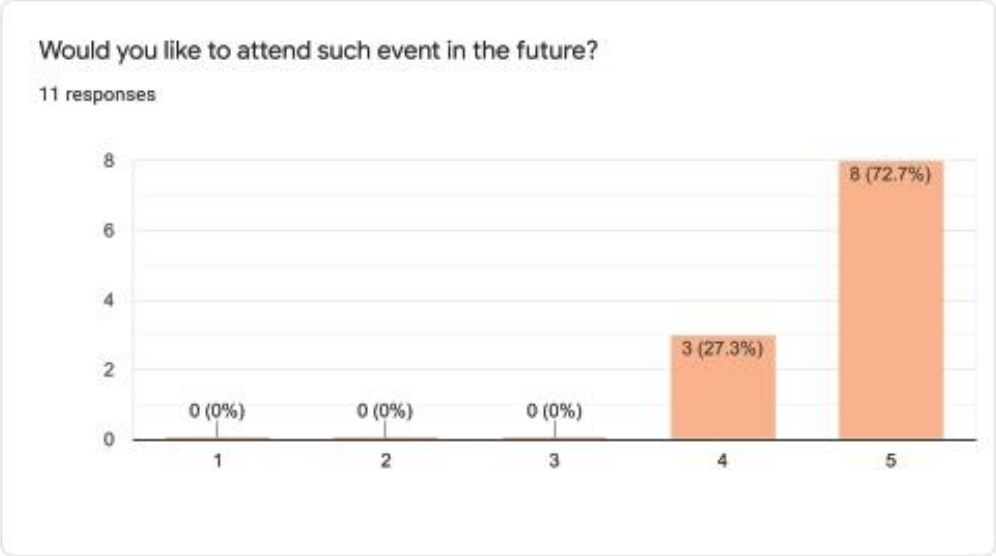
9657273173

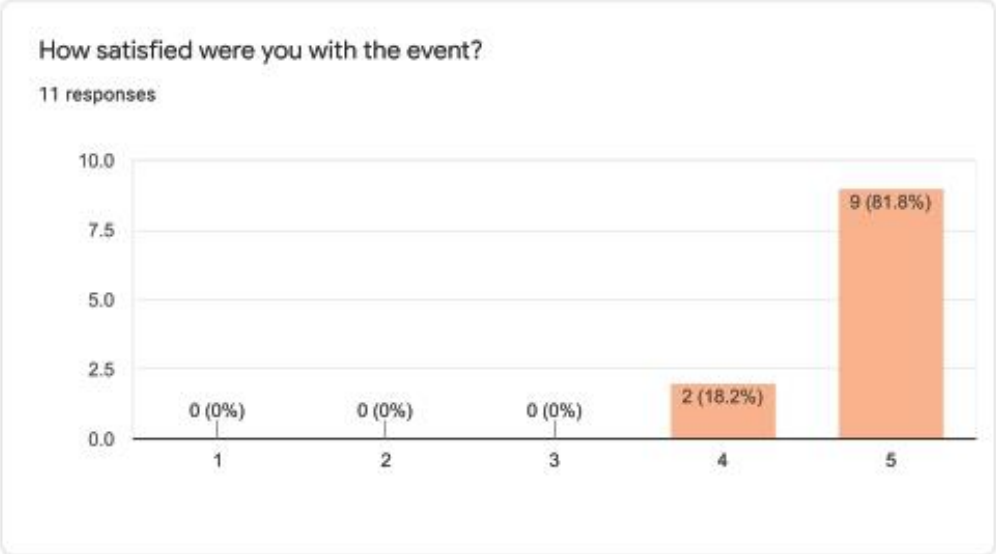
9673598651

Did the event meet your expectations?

11 responses




Would you like to attend such event in the future?
11 responses
8
6
4
2
0
0 (0%)
0 (0%)
0 (0%)
3 (27.3%)
8 (72.7%)
1
2
3
4
5


How satisfied were you with the event?
11 responses
10.0
7.5
5.0
2.5
0.0
0 (0%)
0 (0%)
0 (0%)
2 (18.2%)
9 (81.8%)
1
2
3
4
5

What were your key take away from this event?

4 responses

BEst

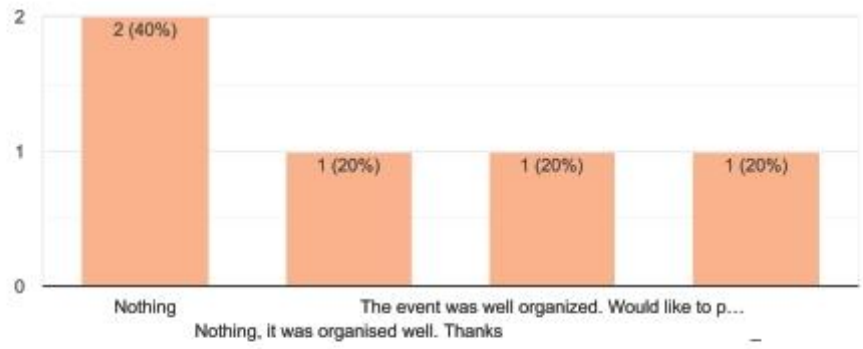
Nice session

Skills

Got to explore a lot. Competitions are always fun for me. It was great experience in applying my design skills.

Any Suggestions for the further improvement of the event?

5 responses



8.4 Link of the detail feedback response file:

https://svkmmumbai-my.sharepoint.com/:x:/g/personal/mohammed_juneduddin_svkm_ac_in/ETb8uUYfwspIoVMfXAZroXQBBFtGpKEzV3JY70DrcBWC6g?e=I0Eqwl

9. Evaluation of the Submissions received from the participants

9.1 Details of the Marking scheme:

Criteria	Maximum Marks
1. Proper and effective use of tools/commands	10
2. Manufacturability of the part	10
3. Drawing as per the dimensions provided	10
4. Completion of Drawing	10
5. Accuracy and Time management	05
6. Aesthetic features applied to the parts	05
Total	**50**

9.2 Details of the Marks received by the participants who have submitted files:

Name of Participant No. 1	Name of Participant No. 2 (If you are single participant then leave it blank)	1. Proper and effective use of tools/commands (10)	2. Manufacturability of the part (10)	3. Drawing as per the dimensions provided (10)	4. Completion of Drawing (10)	5. Accuracy and Time management (5)	6. Aesthetic features applied to the parts (5)	TOTAL	Remark	Rank
Harshal Dasputе	-	8	5	8	10	5	0	**36**	No aesthetic applied & Manufacturability is missing	**4**

Devendra Anil Chaudhari		8	8	8	10	5	0	**39**	No aesthetic applied	**2**
Abhishek Sunil Gaikwad	Atharva Ramesh C handkar	5	7	5	10	5	5	**37**	Dimensions are not as per given	**3**
Muffadal tayyeb sakriwala		9	8	9	10	5	4	**45**	Overall good	**1**
Aditya Balvant Adake	Neha Uday Deshpande	5	7	4	10	5	5	**36**	File is imported from somewhere else	**4**
Param Anil Varade		3	0	5	5	4	4	**21**	Not as per drawing	**6**
PARDESHI AANCHAL SATISH		5	2	3	5	5	0	**20**	Partially completed	**7**
Dipanjali Sharad Patil		7	4	5	10	4	0	**30**	Poor Manufacturability & dimensions, also no aesthetic applied	**5**

The panel of judges have verified all the Marks given to the participants as follows

1. Prof. Dhiraj Bhandarkar: 
2. Prof. Bhushan Behede: 

10. Winners and Runner ups:

11. E-Certificate and distribution

All E-certificates were sent to the winners and participants on their registered Email-Id. One copy of All the E-certificates is available in Pdf format at the department level.

11.1 Sample E-Certificate given to the winner:

Shri Vile Parle Kelavani Mandal's

Institute of Technology, Dhule

Department of Mechanical Engineering

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

Mr./Ms. ***Muffadal tayyeb sakriwala*** from *SSVPS Polytechnic, Dhule* is *Winner/~~Runner Up/Participant~~* in the event CAD WAR which was conducted under **Mech-Fest 2k21** on **10th August 2021**.

Prof. Dhiraj Bhandarkar	Prof. Bhushan Behede	Prof. Mohammed Juneduddin	Dr. Nilesh Salunke
Event Co-ordinator	Event Co-ordinator	Co-ordinator	Principal

11.2 Sample E-Certificate given to the participants:

Shri Vile Parle Kelavani Mandal's

Institute of Technology, Dhule

Department of Mechanical Engineering

CERTIFICATE OF PARTICIPATION

This certificate is awarded to

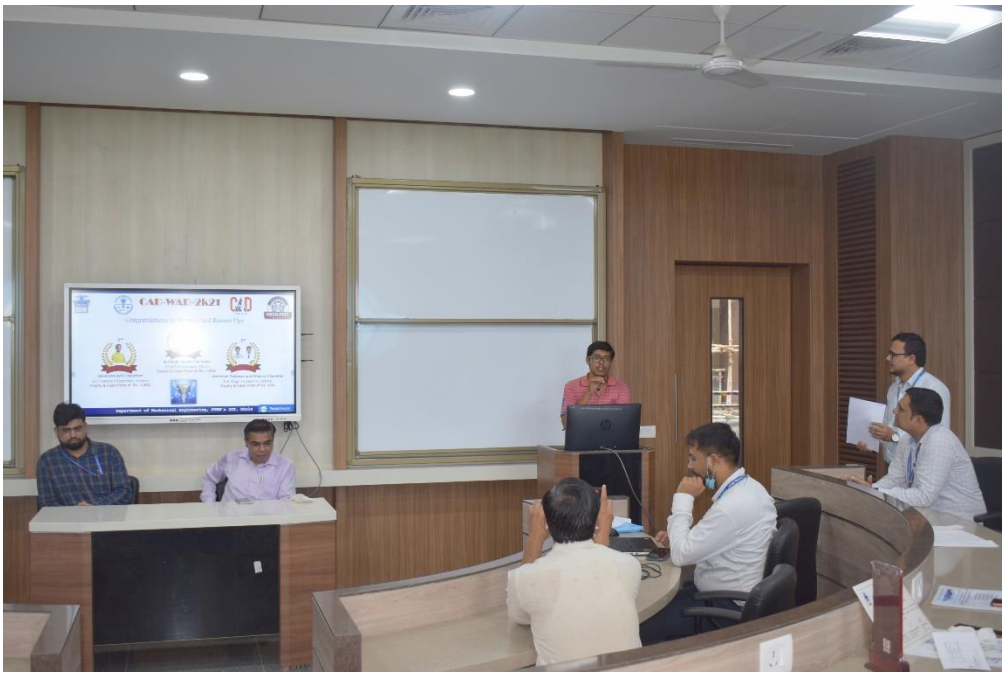
Mr./Ms. ***Harshal Daspute*** from *K. K. Wagh Polytechnic, Nashik* is ~~*Winner/Runner Up/Participant*~~ in the event CAD WAR which was conducted under **Mech-Fest 2k21** on **10th August 2021**.

Prof. Dhiraj Bhandarkar	Prof. Bhushan Behede	Prof. Mohammed Juneduddin	Dr. Nilesh Salunke
Event Co-ordinator	Event Co-ordinator	Co-ordinator	Principal

12. Valedictory and Prize distribution

12.1 Photograph of prize distribution ceremony

12.2 Participant has given a verbal feedback during the Valedictory function



SHRI VILE PARLE KELAVANI MANDAL'S
Institute of Technology, Dhule
Approved by AICTE | Affiliated to DBATU

Event Report

MECH-A-PPT

MECH-A-PPT 2K21
POWERPOINT PRESENTATION COMPETITION

MECH-A-PPT 2k21 is an event which was organized on 11th August 2021 by the Department of Mechanical Engineering, Shri Vile Parle Kelavani Mandal's (SVKM's) Institute of Technology, Dhule under the umbrella of MechFest 2k21.

Event Coordinators

1. Prof. Dattatray Doifode
2. Prof. Mahesh Dalwani

1. Event Description

MECH-A-PPT 2k21 organized by the Department of Mechanical Engineering, SVKM Institute of Technology, Dhule under the umbrella of MechFest 2k21.

MECH-A-PPT is an online technical power point presentation competition on any one topic related to mechanical engineering. The basic purpose of organizing this competition is to inculcate and boost the confidence, communication skill, develop the public speaking, collection of technical data skills and encourage the self-learning amongst the students. Event was started with introduction of all the campus of SVKM. Later, brief information of Dhule campus was given with special focus on Mechanical Department. The event was coordinated by Prof. Dattatray Doifode and Prof. Mahesh Dalwani. All the faculties of the Mechanical department were the judges of this event.

2. Event Flyer

3. Topics/Areas for MECH-A-PPT Competition

- **Electric vehicle**
- **Hybrid vehicle**
- **CAD/CAM, Automation & Robotics**
- **Artificial Intelligence and Machine Learning**
- **Advances of Aero space Technology**
- **Refrigeration and air conditioning Systems**
- **Cryogenics**
- **Operations Management**
- **Logistics and Supply Chain Management**
- **Reliability and Maintenance Engineering**
- **Total Quality Management and Quality Engineering**
- **Non-Traditional Machining processes**
- **Machinability of Materials, Composite Materials**
- **Tribology and Surface Technology**
- **Design Tools, Cutting Tool Material and Coatings**
- **Energy Conservation, Renewable Energy Techniques**
- **Computational Fluid Dynamics, Bio-fuels, Fuel Cells, Battery**
- **Transportation Systems**
- **Thermal Engineering**
- **Nanotechnology and Micro engineering**
- **Manufacturing**
- **Digital twins**
- **3D/4D/5D Printing**
- **Internet of Things**
- **Any other topic related to Mechanical Engineering**

3.1 Instructions for the Participants

- Restrict the presentation upto 10 slides.
- Participants need to share their presentation through the MS Team.
- Participants need to switch on his /her camera during the presentation.
- Duration for the presentation is 10 minutes.
- At the end of presentation participants will have question /answer interactions with the Judges.
- Feedback link will be shared at the end of the event.
- All the participants will get the certificate of participation and winners will get the cash prize and trophy.

3.2 Evaluation Criteria Sheet

Sr. No.	Evaluation Criteria	Score
1	Innovative topic selection	5
2	Presentation skills	5
3	Overall Content and the aesthetics of PPT	5
4	Subject Knowledge	5
5	Question/ Answer	5
	Total	25

4. Registration details

4.1 Link of the registration responses received from the participants

https://docs.google.com/forms/d/1wQVwlH1ppLWDjvH47q2TBR56hK4L_y6Qg2DP3O5i1jE/edit

4.2 The total number of students registered: 13

4.3 List of Students who have registered

Sr No.	Full Name of Participant
1	Vasave Shiva Mohansing
2	Deshpande Neha Uday
3	Roundal Prasad Deepak
4	Patil Yogesh Nimba
5	Puranik Lokesh Rajendra
6	Adake Aditya Balvant
7	Rajput Harshal Ashok
8	PARDESHI AANCHAL Satish
9	Sakriwala Muffadal Tayyab
10	Baisane Rahul Kashinath
11	Patil Akash Maruti
12	Dhole Sandip Gulabrao
13	Sonawane Jitendra Rajendra

4.4 The total number of actual participation: 05

4.5 The list of actual participation

Sr. No.	**Name of Participants**
1	Puranik Lokesh Rajendra
2	Sakriwala Muffadal Tayyab
3	Dhole Sandip Gulabrao
4	Pardeshi Aanchal Satish
5	Sonawane Jitendra Rajendra

5. Conduction of the event

Event is conducted online on 11th August 2021 from 10:15 AM using Microsoft Teams. All the participants and faculties of Mechanical Engineering were invited to the inauguration ceremony.

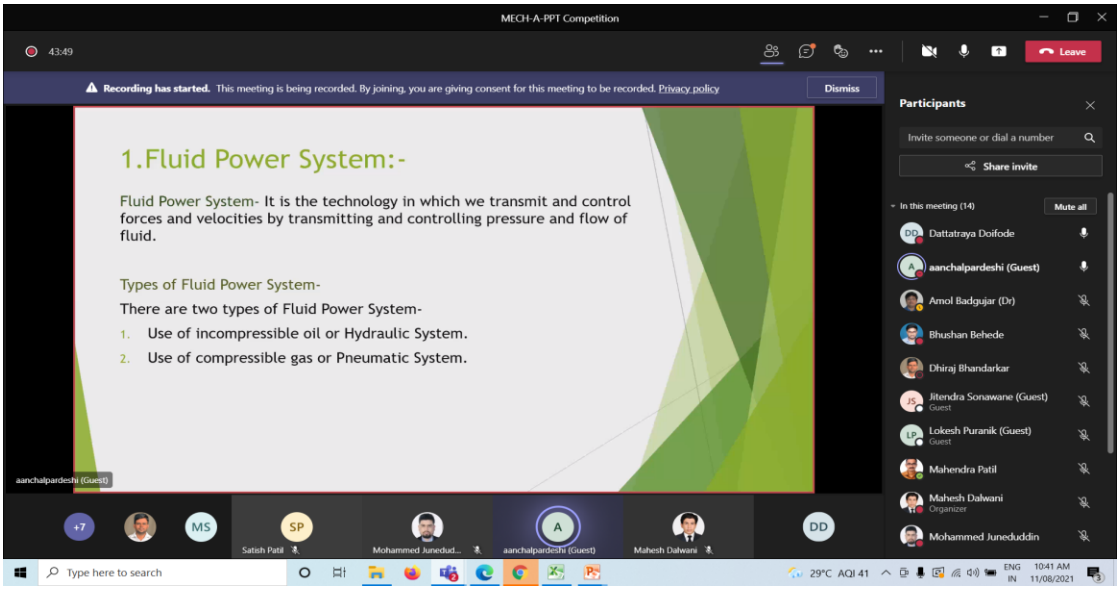
5.1 Link of the Inauguration ceremony:

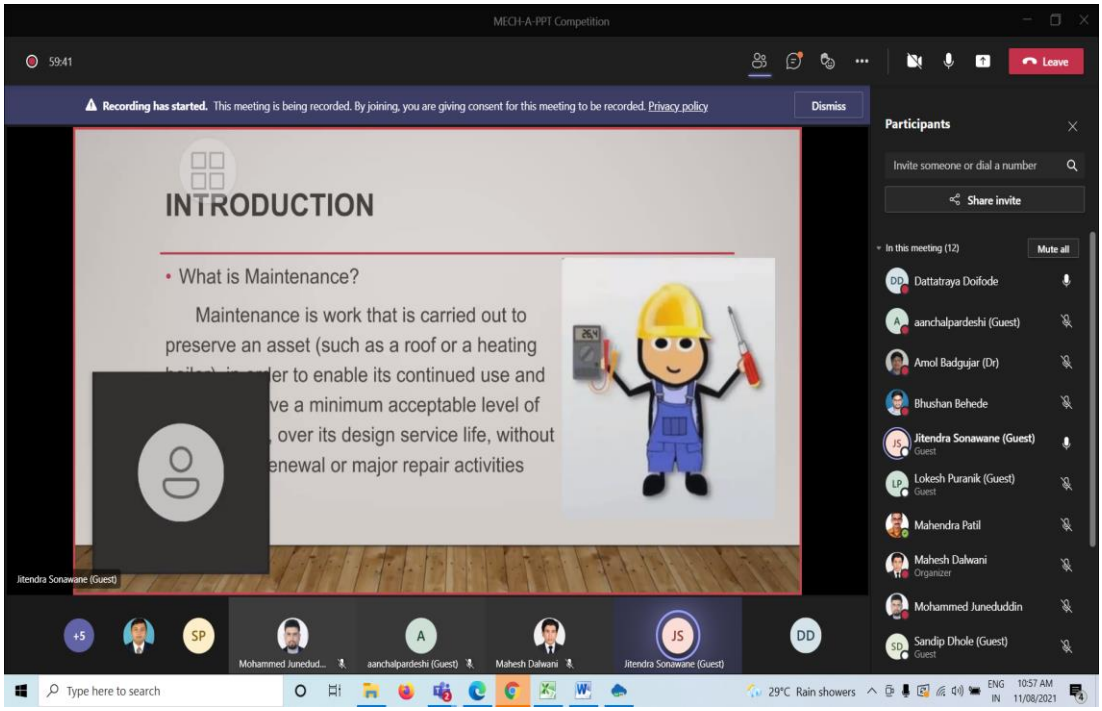
https://teams.microsoft.com/l/meetup-join/19%3ae_x47b3XCEWBVPnYq7EVIU7jhMz3rmwssILtbWDP7Cw1%40thread.tacv2/1628608756809?context=%7b%22Tid%22%3a%22d1f14348-f1b5-4a09-ac99-7ebf213cbc81%22%2c%22Oid%22%3a%22b6e2b8b3-730c-48b4-b087-eb76affd1d88%22%7d

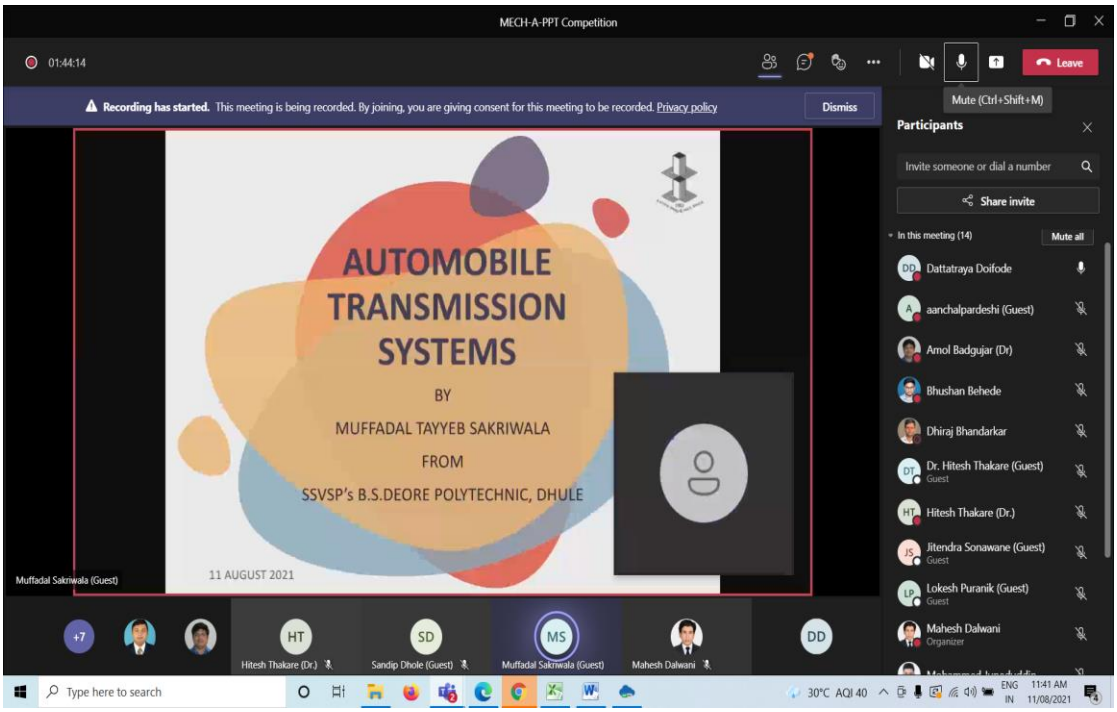
5.2 Recording of the Inauguration ceremony:

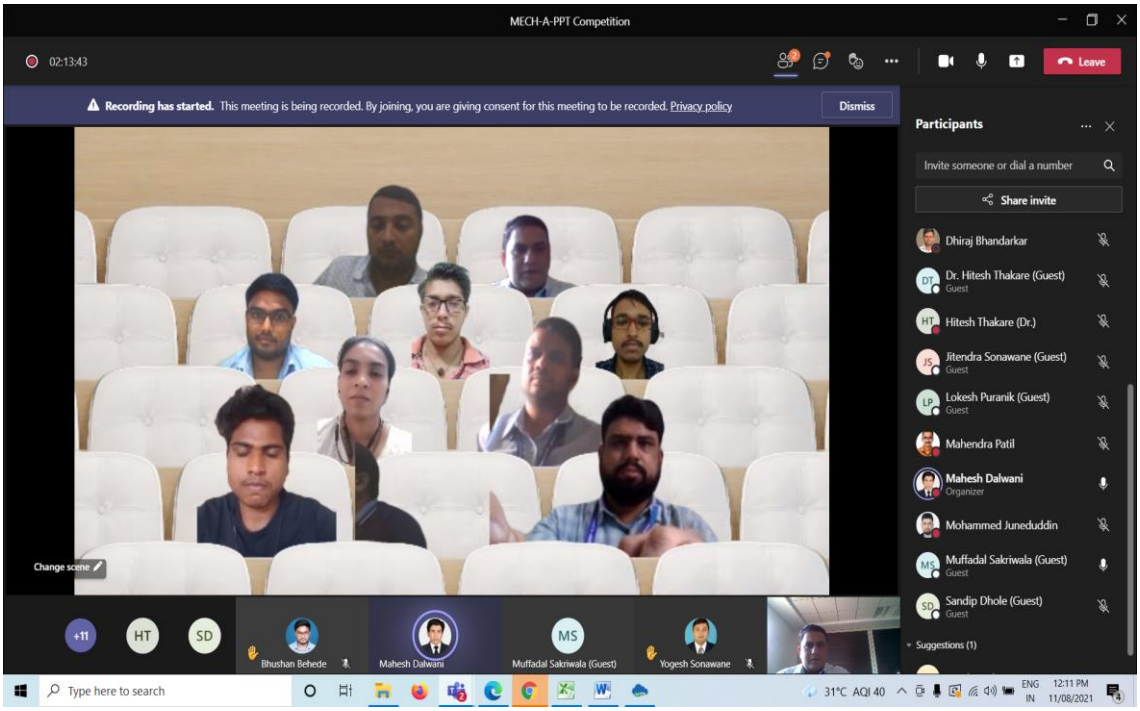
https://svkmmumbai-my.sharepoint.com/personal/mohammed_juneduddin_svkm_ac_in/_layouts/15/onedrive.aspx?originalPath=aHR0cHM6Ly9zdmttbXVtYmFpLW15LnNoYXJlcG9pbnQuY29tLzpmOi9nL3BlcnNvbmFsL21vaGFtbWVkX2p1bmVkdWRkaW5fc3ZrbV9hY19pbi9FazRlUFJlZWhFOUF1Zm1uckRVVkdOc0JieV92Rm5wTlJiT1ZrS01aVl9ocXBBP3J0aW1lPS1tZW8tUjlpMlVn&id=%2Fpersonal%2Fmohammed%5Fjuneduddin%5Fsvkm%5Fac%5Fin%2FDocuments%2FMechFest%2D21%2FMECH%2DA%2DPPT%2FImages%5Frecording%5FDuring%5FExecution

5.3 Screenshots during the Inauguration Ceremony:




MECH-A-PPT Competition
59:41
Leave
Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy
Dismiss
INTRODUCTION
• What is Maintenance?
Maintenance is work that is carried out to preserve an asset (such as a roof or a heating
er to enable its continued use and
ve a minimum acceptable level of
over its design service life, without
enewal or major repair activities
Jitendra Sonawane (Guest)
Participants
Invite someone or dial a number
Share invite
In this meeting (12)
Mute all
Dattatraya Doifode
aanchalpardeshi (Guest)
Amol Badgujar (Dr)
Bhushan Behede
Jitendra Sonawane (Guest)
Guest
Lokesh Puranik (Guest)
Guest
Mahendra Patil
Mahesh Dalwani
Organizer
Mohammed Juneduddin
Sandip Dhole (Guest)
Guest
Mohammed Junedud...
aanchalpardeshi (Guest)
Mahesh Dalwani
Jitendra Sonawane (Guest)
Type here to search
29°C Rain showers
ENG IN
10:57 AM
11/08/2021


MECH-A-PPT Competition
01:44:14
Leave
Mute (Ctrl+Shift+M)
Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy
Dismiss
AUTOMOBILE TRANSMISSION SYSTEMS
BY
MUFFADAL TAYYEB SAKRIWALA
FROM
SSVSP's B.S.DEORE POLYTECHNIC, DHULE
11 AUGUST 2021
Muffadal Sakriwala (Guest)
Participants
Invite someone or dial a number
Share invite
In this meeting (14)
Mute all
Dattatraya Doifode
aanchalpardeshi (Guest)
Amol Badgujar (Dr)
Bhushan Behede
Dhiraj Bhandarkar
Dr. Hitesh Thakare (Guest)
Guest
Hitesh Thakare (Dr.)
Jitendra Sonawane (Guest)
Guest
Lokesh Puranik (Guest)
Guest
Mahesh Dalwani
Organizer
Hitesh Thakare (Dr.)
Sandip Dhole (Guest)
Muffadal Sakriwala (Guest)
Mahesh Dalwani
Type here to search
30°C AQI 40
ENG IN
11:41 AM
11/08/2021


MECH-A-PPT Competition
02:13:43
Leave
Recording has started. This meeting is being recorded. By joining, you are giving consent for this meeting to be recorded. Privacy policy
Dismiss
Participants
Invite someone or dial a number
Share invite
Dhiraj Bhandarkar
Dr. Hitesh Thakare (Guest)
Guest
Hitesh Thakare (Dr.)
Jitendra Sonawane (Guest)
Guest
Lokesh Puranik (Guest)
Guest
Mahendra Patil
Mahesh Dalwani
Organizer
Mohammed Juneduddin
Muffadal Sakriwala (Guest)
Guest
Sandip Dhole (Guest)
Guest
Suggestions (1)
Change scene
+11
HT
SD
Bhushan Behede
Mahesh Dalwani
MS
Muffadal Sakriwala (Guest)
Yogesh Sonawane
Type here to search
31°C AQI 40
ENG
IN
12:11 PM
11/08/2021

6. Feedback of the Participants

Feedback received from the participants via Google forms. Feedback link is shared with the participants before dispatching the E-Certificates.

6.1 Feedback form Link:

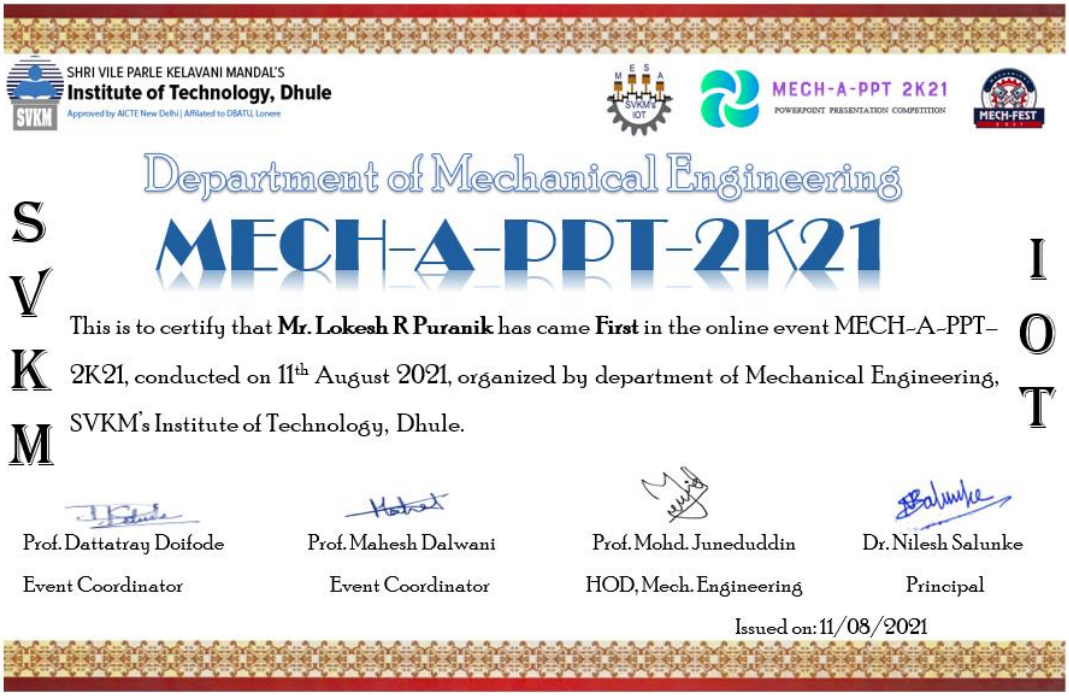
https://docs.google.com/forms/d/1GzUH0ORr_JL-MR2OMnilRZUFoo2YU7j0wLBUEezYoQk/edit

7. Winners and Runner ups:

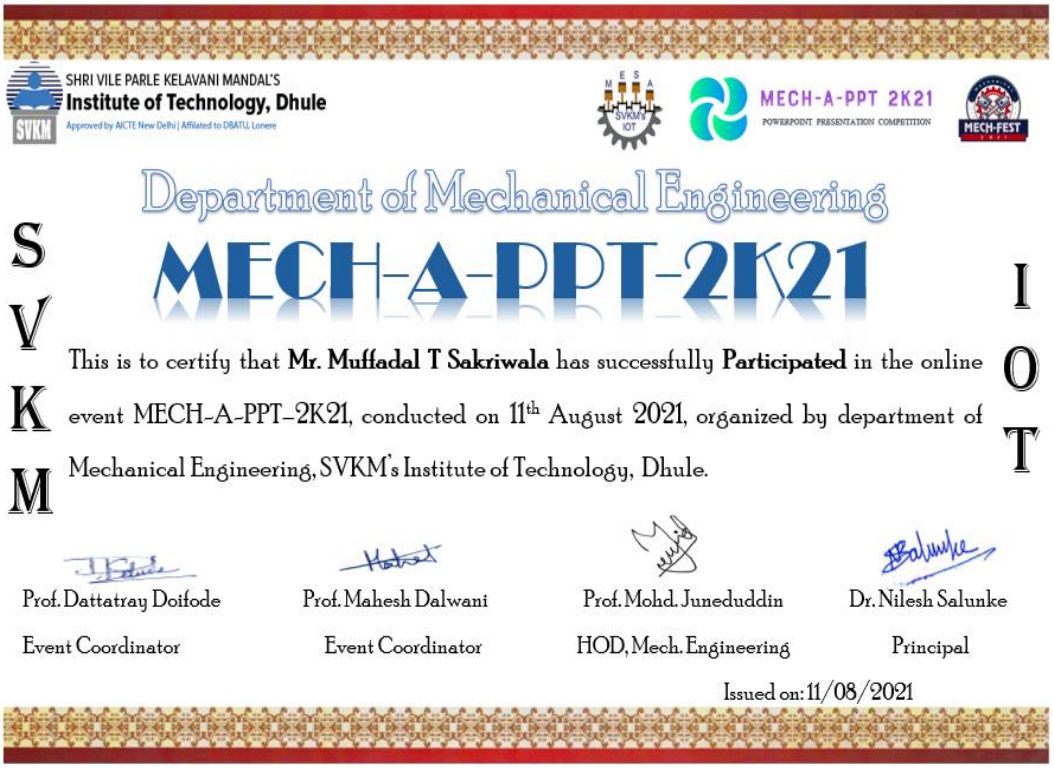
8. E-Certificate and distribution

All E-certificates were sent to the winners and participants on their registered Email-Id. One copy of All the E-certificates is available in Pdf format at the department level.

8.1 Sample E-Certificate given to the winner:



8.2 Sample E-Certificate given to the participants:



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MECH-A-PPT 2K21
POWERPOINT PRESENTATION COMPETITION

Department of Mechanical Engineering

S V K M

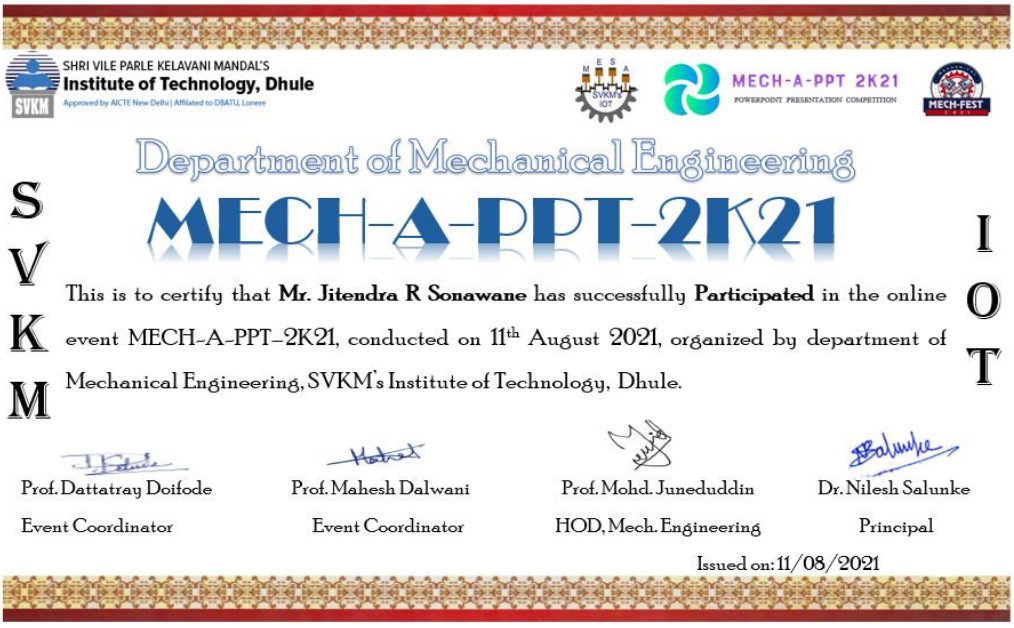
MECH-A-PPT-2K21

I O T

This is to certify that **Mr. Muffadal T Sakriwala** has successfully **Participated** in the online event MECH-A-PPT-2K21, conducted on 11th August 2021, organized by department of Mechanical Engineering, SVKM's Institute of Technology, Dhule.

Prof. Dattatray Doifode	Prof. Mahesh Dalwani	Prof. Mohd. Juneduddin	Dr. Nilesh Salunke
Event Coordinator	Event Coordinator	HOD, Mech. Engineering	Principal

Issued on: 11/08/2021



SHRI VILE PARLE KELAVANI MANDAL'S
Institute of Technology, Dhule
Approved by AICTE New Delhi | Affiliated to DBATU, Lonere

MECH-A-PPT 2K21
POWERPOINT PRESENTATION COMPETITION

Department of Mechanical Engineering

S V K M

MECH-A-PPT-2K21

I O T

This is to certify that **Mr. Jitendra R Sonawane** has successfully **Participated** in the online event MECH-A-PPT-2K21, conducted on 11th August 2021, organized by department of Mechanical Engineering, SVKM's Institute of Technology, Dhule.

Prof. Dattatray Doifode	Prof. Mahesh Dalwani	Prof. Mohd. Juneduddin	Dr. Nilesh Salunke
Event Coordinator	Event Coordinator	HOD, Mech. Engineering	Principal

Issued on: 11/08/2021

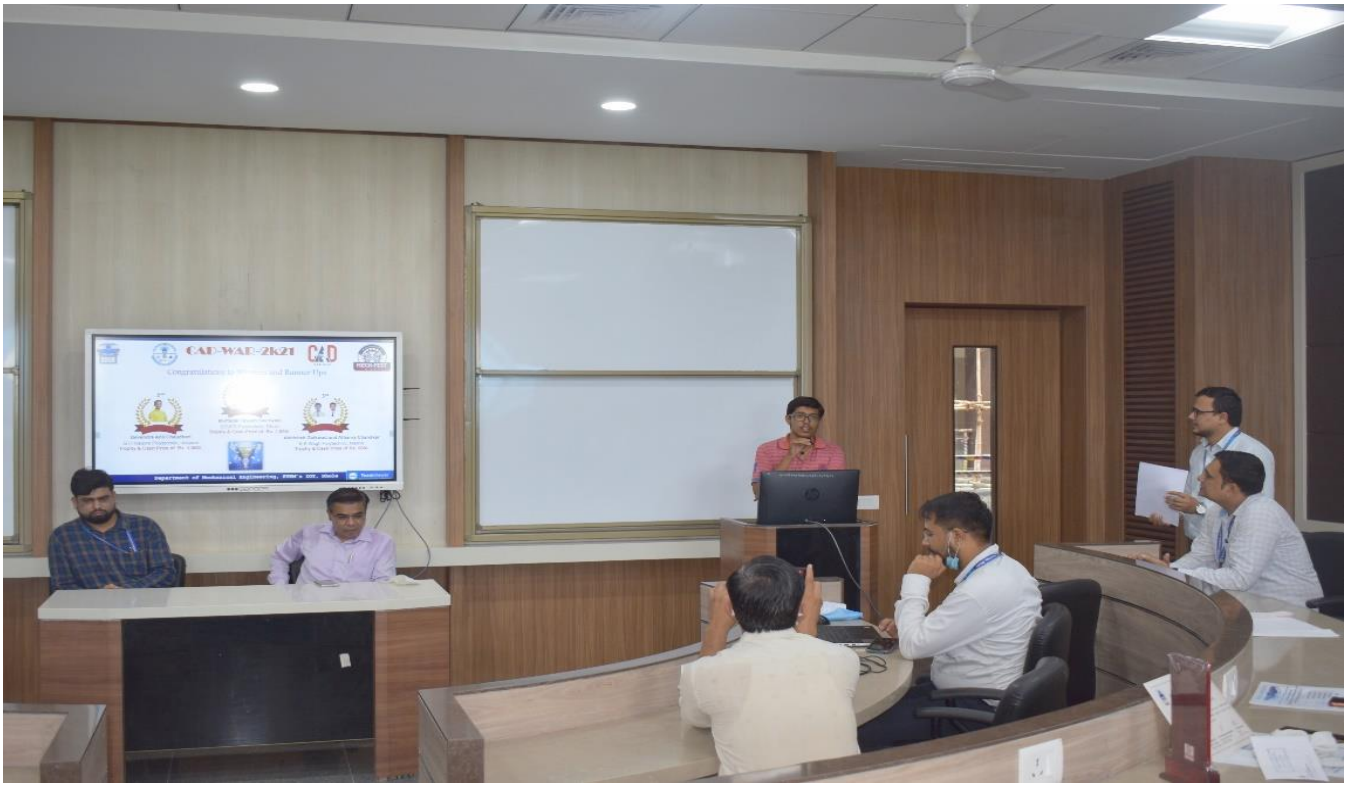
9. Valedictory and Prize distribution

9.1 Photograph of prize distribution ceremony


MECH-FEST
2K21
MECH-A-PPT-2K21


MECH-FEST
2K21
MECH-A-PPT 2K21

9.2 Participant has given a verbal feedback during the Valedictory function



Shri Vile Parle Kelavani Mandal's

INSTITUTE OF TECHNOLOGY, DHULE

Department of Mechanical Engineering

A Guest Lecture Report on

"Energy Conservation – Simplified Technical and Financial Analysis"

The online session was organized on Energy and Environment Engineering Department, SVKM's IOT, Dhule on 18th of August 2021. The experts talk elaborate what are the Scope, Challenges and Skills required in Energy and Environment Industry. The session started with Assistant Professor of Energy and Environment Engineering Department Mr. Satish Patil honoring to expert **Dr. Hitesh Thakare.**

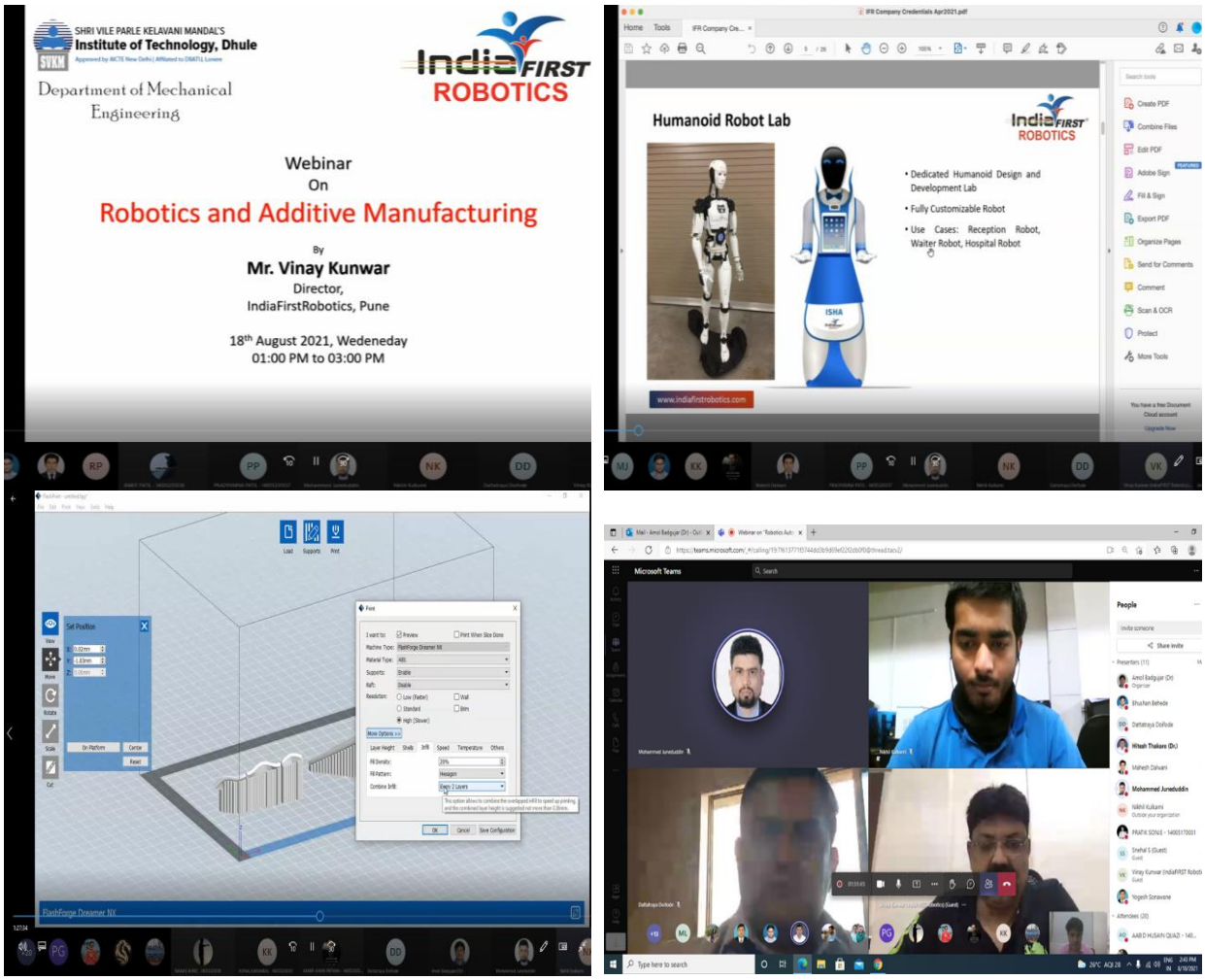
Dr. Hitesh Thakare is BEE Certified Energy Auditor (CEA - 27707). The expert talk was included information about the conservation of energy, how to conserve energy and energy conservation in the India, after that he explained lot of advantages of energy conservation. He also explained uses of CFL bulbs over ordinary bulb, as ordinary bulb conserve more energy than CFL bulbs, what that are in actual manner of energy conservation. He focused majorly on conservation of energy in whole session. He covered points, how to reduce high consumption of energy. The vote of thanks was given by Prof. Satish Patil.

Photos –

Event Report

Webinar on “Robotics and Additive Manufacturing”

A webinar titled “Robotics and Additive Manufacturing” was organized by department of Mechanical Engineering, SVKM’s Institute of Technology, Dhule on 18-08-2021 (Wednesday) at 01:00 PM to 03:00 PM for undergraduate students of Mechanical Engineering. Mr. Vinay Kunwar and Mr. Nikhil Kulkarni were speakers for event, both from IndiaFIRST® Robotics Innovation and Research LLP, Pune. Dr. Amol Badgujar, Assistant Professor, Department of Mechanical Engineering, welcomed and introduced speakers to webinar attendees. There were about 79 participants comprising of students and faculties from the department of Mechanical Engineering.



Snapshot of Webinar Event

Mr. Vinay Kunwar provided a comprehensive overview of types of robots as well as their possible military and civilian applications, in his talk. He also shared his experiences related to building India's first robotics museum at Ahmadabad. Mr. Nikhil Kulkarni detailed about various techniques for Additive manufacturing as well as provided online demonstrations preparation of object from CAD model using fused deposition modelling. Prof. Mohammed Juneduddin, Head of Mechanical Engineering department thanked speakers for their interaction with students. The event received positive feedback from students and faculties.

Date: 20-08-2021

Place: Dhule

Dr. Amol Badgujar
Event Coordinator

Prof. Mohammed Juneduddin
HOD, Mechanical

Enclosures

1. Profile of speaker
2. Snapshot of invitation email
3. Flyer of event
4. List of participants
5. Feedback form
6. Link to Video Lecture

Profile of speaker

Vinay Kunwar

Director: INDIAFIRST ROBOTICS INNOVATION & RESEARCH LLP
15, Sujit Complex, Dhayari,
Pune - 411041
Mobile: +91-8446767555

Education : B.E. E&TC, MBA (Marketing)

Total experience : 29yrs.

- **Received Appreciation Letter from Hon'ble Chief Minister of Gujarat, Shri Narendra Modi (2011)**
- **Received Appreciation Letter from Hon'ble Education Minister of Gujarat, Shri Ramanlal Vora (2011)**
- **Photo Feature Profiling on Most Innovative Business Idea of 2014 by National Level Magazine "The Franchising World" (2014)**
- **Received Maharashtra IT Awards:2008 at the hands of then Chief Minister of Maharashtra Shri Vilasraoji Deshmukh while working with MITCON Ltd. as Vice President**
- **Honorary Advisor : Board of Global Advisors of Confederation of International Accreditation Commission**
- **Built India's first ever Robot Museum costing Rs. 125 Crs. At Ahmedabad which was inaugurated by Shri Narendra Modi, Prime Minister of India on 17th July 2021**

Current Professional Profile

Director at

- M/s. Habib Animatos Pvt. Ltd.
- IndiaFIRST® Robotics Innovation and Research LLP
- National Academy for Advance Computing Training

with interests in various fields such as School Academics, Information Technology, Vocational Education, Soft Skills Training, Technical Education and Entrepreneurship

Manufacturer and Exporters of Robotic Kits:

Designed and developed India's first ever modular robots useful for Science, Technology, Engineering and Mathematics (STEM) education for school students in the age group of 6 yrs. to 22 yrs.

Currently, has more than 120+ nos. centres across India, Africa, Middle East, France, Germany, USA

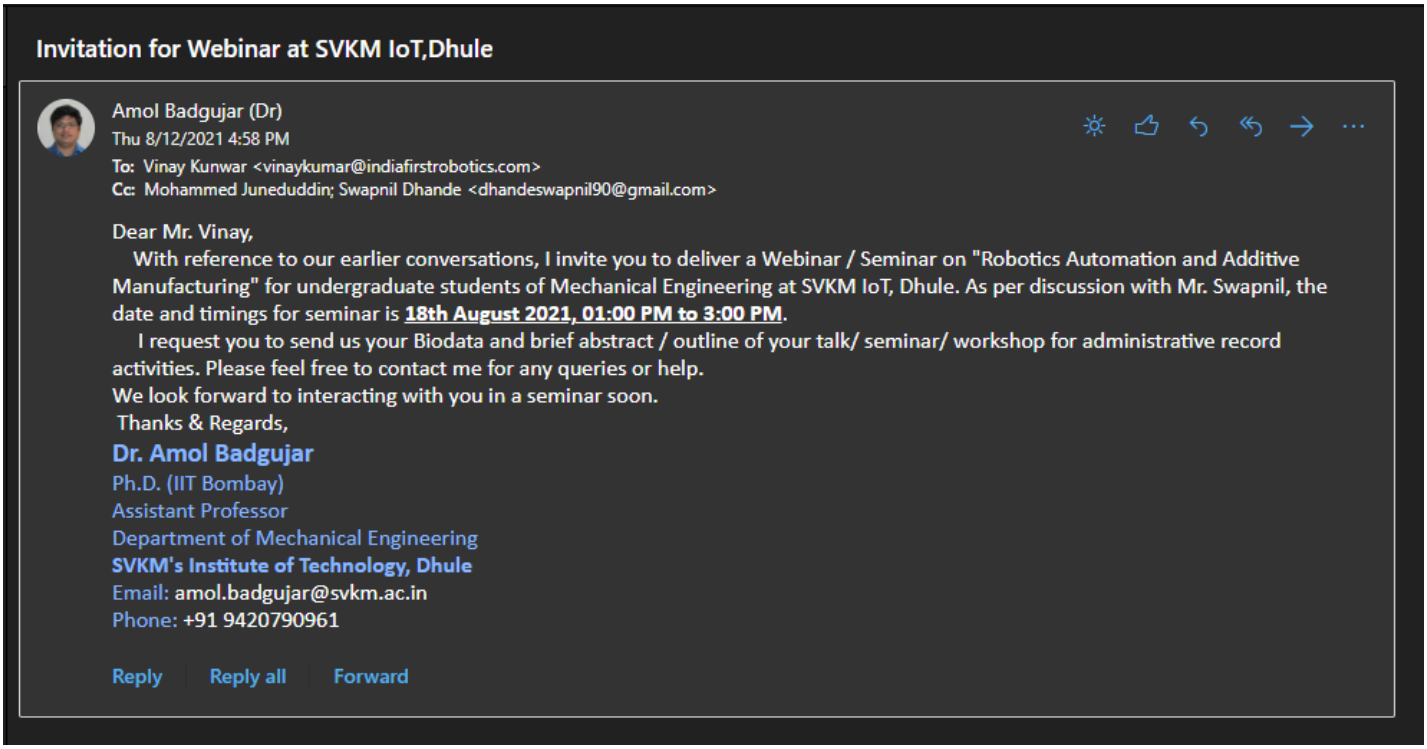
President at

- Indus Robotics Society
- Disha Stadiodromia
- Apang Maitri Trust

Founder Trustee at

- "Asian Academy for Education and Research" which has 3 colleges in Pune which includes,
  - Asian Jr. College,
  - Asian college of Science and Commerce,
  - Asian Institute of Management Science

Snapshot of invitation email



Invitation for Webinar at SVKM IoT,Dhule

Amol Badgujar (Dr)
Thu 8/12/2021 4:58 PM
To: Vinay Kunwar <vinaykumar@indiafirstrobotics.com>
Cc: Mohammed Juneduddin; Swapnil Dhande <dhandeswapnil90@gmail.com>

Dear Mr. Vinay,

With reference to our earlier conversations, I invite you to deliver a Webinar / Seminar on "Robotics Automation and Additive Manufacturing" for undergraduate students of Mechanical Engineering at SVKM IoT, Dhule. As per discussion with Mr. Swapnil, the date and timings for seminar is **18th August 2021, 01:00 PM to 3:00 PM**.

I request you to send us your Biodata and brief abstract / outline of your talk/ seminar/ workshop for administrative record activities. Please feel free to contact me for any queries or help.

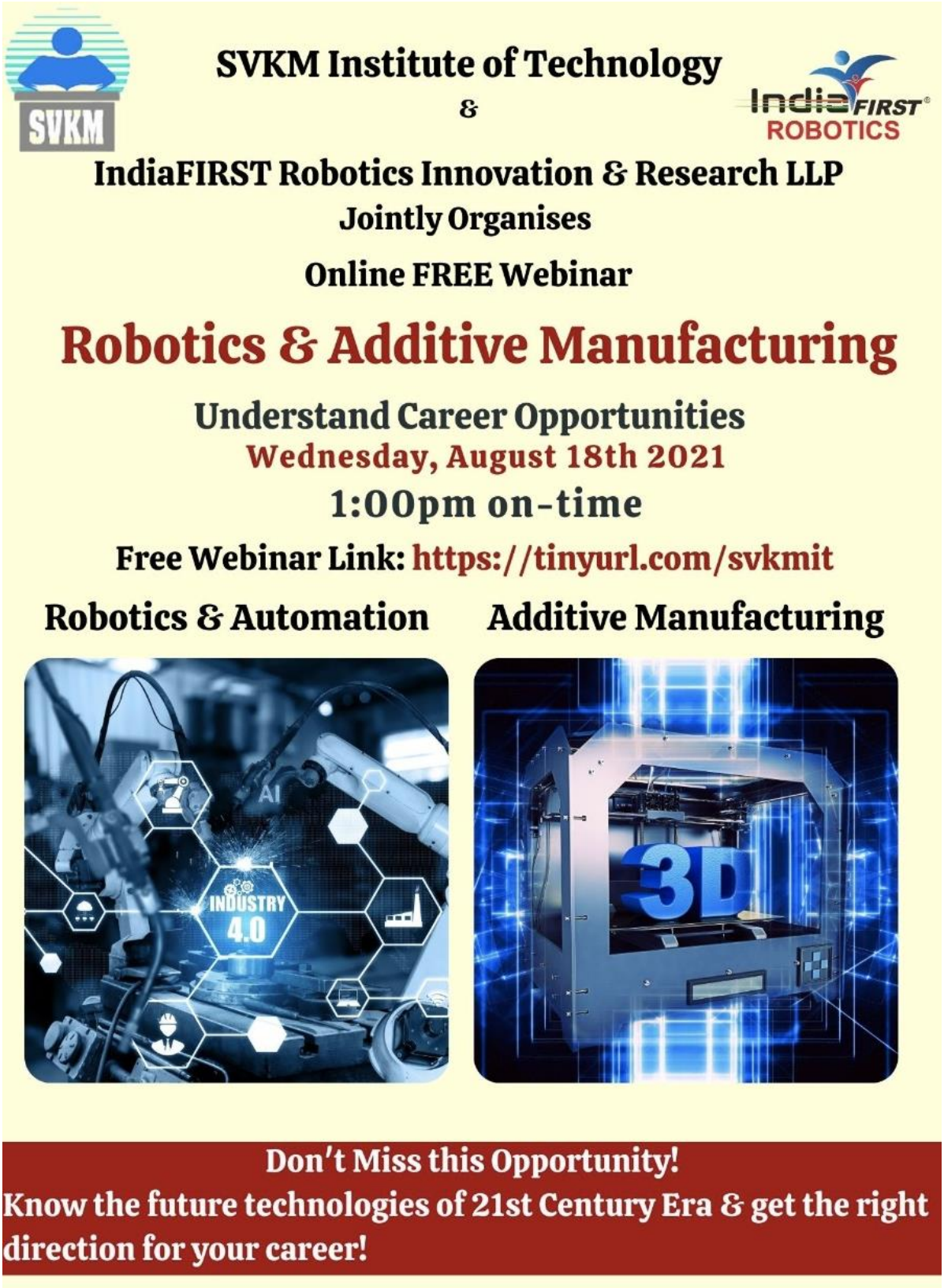
We look forward to interacting with you in a seminar soon.

Thanks & Regards,

Dr. Amol Badgujar
Ph.D. (IIT Bombay)
Assistant Professor
Department of Mechanical Engineering
SVKM's Institute of Technology, Dhule
Email: amol.badgujar@svkm.ac.in
Phone: +91 9420790961

Reply | Reply all | Forward

Flyer of event



List of participants

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Feedback form

Link to Video Lecture

https://svkmmumbai.sharepoint.com/:v:/s/all_staff_mech_svkm/EQMvaHZRfwNBt61yZM0MzucBCtLEjxtJyk86uKh4KVhsEg?e=4cTLVq

Report on Essay Writing Competition
Event: Essay writing competition conducted on the occasion of Engineer's Day.
Date : 15th September 2021.

The Engineering community across India celebrates **Engineer's Day** on 15th of September every year as a tribute to the greatest Indian Engineer Bharat Ratna **Sir Mokshagundam Visvesvaraya**.

On this occasion considering the greatness and vast perspective of an engineer, the **Mechanical Engineering Students Association (MESA)** of 2021-22 conducted an Essay writing competition to showcase various developmental ideas considering technology. The competition was written type where the students showed up their knowledge in the way they see this enthusiastic world and how engineers can contribute it enormously comprising the topics :

- **"Importance of AI in Mechanical Engineering";**
- **"Importance of Mechanical Engineer in Society";**
- **"Online Education : Blessing or Curse for engineering education?"**

1 day span was allotted for participants to submit their response along with the essay in the scanned pdf format. Forms were received from students of Mechanical department. Considering the lockdown phase all the council members worked hard to ensure that the competition was a success.
Overall, 8 students from the Institute submitted their essay's. Considering these responses, the student council selected 3 best essays out of 8 by rating them over 6 various parameters - Creativity, Structure, Grammar, Adherence to Topic, Length & Calligraphy. Further these were judged by Dr. Hitesh Thakare (HOD - Mechanical Engineering Department); Prof. Mohammad Juneduddin (Academic Co-ordinator); Prof. Yogesh Sonawane (Faculty Co-ordinator).They selected 3 essays as winners of participants namely:
1. Tejas Wani (TY Mechanical)
2. Akash Gote (LY Mechanical)
3. Pradyumna Patil (TY Mechanical)

It was a great experience of 2021-22 **Mechanical Engineering Students Association (MESA)** as a team and the result of this programme was a success.
Thank you,
Mechanical Engineering Students Association (MESA),
SVKM's Institute of Technology,
Dhule.

Shri Vile Parle Kelavani Mandals's

INSTITUTE OF TECHNOLOGY,

DHULE

Department of Mechanical Engineering

A Report on

"**Demonstration of 3D Printing**"

The session was organized by Mechanical Engineering Students Association (MESA), SVKM's IOT Dhule on 30th December to Introduce and Demonstrate the recent trend in Additive Manufacturing which is 3D Printing.

The Session was started by Mr. Sudeep Bedmutha (President, MESA) in which he Welcomed and Introduced the guest , Felicitation was Done by Dr.Hitesh Thakare (Head of Department, Mechanical Branch).

The Session was Conducted by Mr. Swapnil Potdar, In which he Firstly Explained the Theoretical Knowledge Related to the Session which Includes the invention of 3D Printing, The Ongoing Research and Past Successful inventions in the Field of Engineering with the help of Presentation . Secondly He Demonstrated The Actual Model Which was Made by 3D Printing , Simultaneously Previous Models which he made at his Workshop were Shown to all the Students .

Lastly,Mr.Yogesh Sonawane (Faculty Coordinator ,MESA), Expressed the Words of Gratitude and Concluded the Session.


File's units

Activity Report

Virtual International Conference On
FUTURISTIC DEVELOPMENTS IN MECHANICAL SCIENCES AND TECHNOLOGY
(ICFDMST-2021)

Technically Sponsored By

Jointly Organized By

Department of Mechanical Engineering

SVKM's Institute of Technology, Dhule M.S

Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule, Maharashtra, India

Aim: To serve as a platform for academicians, researchers and professional practitioners to exchange knowledge, ideas, and debate on emerging trends in Mechanical Sciences, and Technologies.

Objective: To provide an opportunity for an interactive discussion with experts on researchers in various specialized areas of Mechanical Sciences and Technologies.

Name of Program: Virtual International Conference on Futuristic Developments of Mechanical Sciences and Technologies (ICFDMST-2021).

Date: 23rd-24th December 2021

Time: 10.00 AM – 5:30 PM

General Chair: Dr. Nilesh Salunke

Convener: 1) Dr. Hitesh Thakare.

Conference Organizing Committee:

1) Dr. Amol Badgujar.
2) Mr. Mohammed. Juneduddin.
3) Mr. Yogesh Sonawane.
4) Mr. Mahesh Dalwani.
5) Mr. Dhiraj Bhandarkar.
6) Mr. Dattatray Doifode.
7) Mr. Satish Patil.
8) Mr. Bhushan Behede.

Keynote Experts:

1) Dr. Rahul Jagtap.
(Assistant Professor, MIT WPU, Pune)
2) Dr. Brijesh Singh Yadav
(Material Technologist, Saule Technologies, SA, Wroclaw, Poland).

Participants: Faculty/Research scholar/students/Scientist/Industry Expert from different disciplines all over world.

Outcomes:

1) To facilitate and develop a collaborative & interactive single platform for the international researchers, Engineers, Scientists, Academician and the students.

2) To get the knowledge and an idea of various new and emerging topics in the field mechanical sciences and technologies.

The Department of Mechanical Engineering of Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule, Maharashtra, India, has organized a Virtual International Conference on FUTURISTIC DEVELOPMENTS IN MECHANICAL SCIENCES AND TECHNOLOGY (ICFDMST-2021) during 23rd - 24th December 2021. ICFDMST-2021 provided an opportunity for meeting of International Researchers, Engineers, Scientists and specialists in various research and development fields of Engineering, Sciences and Technology. The conference offered a virtual platform for experts to gather and interact intensively on various new and emerging topics including Applications of AI, ML & IoT in Mechanical Engineering, Automotive Technology, Robotics, Automation and Industry 4.0, MEMS, Theoretical and experimental Fluid Mechanics, Thermodynamics, Heat and Mass Transfer, Materials Science and Metallurgical Engineering, HVAC and many more.

In ICFDMST-2021, total 37 papers were received out of which 26 papers got shortlisted by the expert reviewer committee.

Glimpse of ICFDMST-2021-Conference:

Figure 4: Participants Attending the ICFDMST-2021

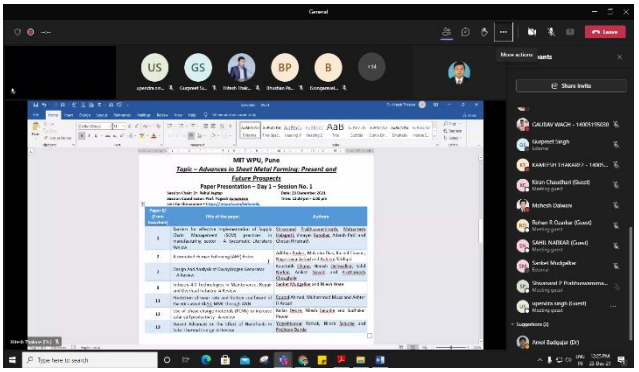

Figure 4: ICDFMST-2021-Schedule being shared.

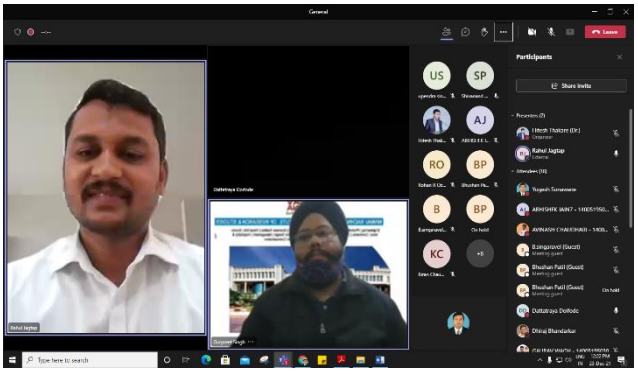

Figure 4: Key note speaker delivering the expert talk

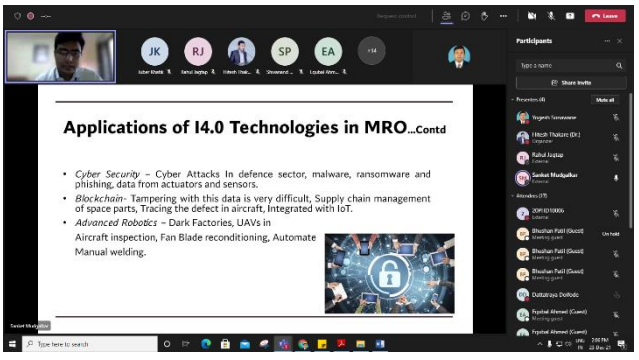

Figure 4: Paper being presented by the participant.

Sample Certificate

SHRI VILE PARLE KELAVANI MANDAL'S
Institute of Technology, Dhule
Approved by AICTE New Delhi | Affiliated to DBATU, Lonere

International Conference On
Futuristic Developments
In
Mechanical Sciences And Technology (ICFDMST 2021)
23rd – 24th December, 2021

Certificate of Participation

This is to certify that **Kaustubh Vineet Dhanu** has participated and presented a paper entitled **"DESIGN AND ANALYSIS OF OXYHYDROGEN GENERATOR – A REVIEW"** in ICFDMST – 2021, organized by the Department of Mechanical Engineering, Shri Vile Parle Kelavani Mandal's Institute of Technology (SVKM's IOT), Dhule.

Dr. Hitesh Thakare
Convener

Dr. Nilesh Salunke
Organizing Chair

Reference Number: ICFDMST2021_1

Proceedings of International Conference

On

FUTURISTIC DEVELOPMENTS

IN

MECHANICAL SCIENCES AND TECHNOLOGY

(ICFDMST-2021)

23rd – 24th December 2021

INTERNATIONAL CONFERENCE ON FUTURISTIC DEVELOPMENTS IN MECHANICAL SCIENCES AND TECHNOLOGY (ICFDMST 2021)

23rd and 24th December 2021

Organized by,

DEPARTMENT OF MECHANICAL ENGINEERING

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DHULE

International Conference On

FUTURISTIC DEVELOPMENTS IN MECHANICAL SCIENCES AND TECHNOLOGY (ICFDMST-2021)

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Institute of Technology, Dhule, Maharashtra, India

Coordinators

Dr. Amol Badgujar

Prof. Mohammed. Juneduddin

Convener

Dr. Hitesh Thakare

General Chair

Dr. Nilesh Salunke

Principal, SVKM's IoT, Dhule

Published By: Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule, Maharashtra, India

Proceedings of Virtual International Conference on
FUTURISTIC DEVELOPMENTS IN MECHANICAL SCIENCES AND TECHNOLOGY (ICFDMST-2021)

DISCLAIMER

The authors are solely responsible for the contents of the papers compiled in this volume. The publishers or editors do not take any responsibility for the same in any manner. Errors, if any, are purely unintentional and readers are requested to communicate such errors to the editors or publishers to avoid discrepancies in future.

General Chair

Dr. Nilesh P. Salunke

Principal, SVKM's IOT

Dhule.

MESSAGE

It gives me an immense pleasure that Department of Mechanical Engineering of Shri Vile Parle Kelavani Mandal's Institute of Technology, Dhule, Maharashtra, India, is organizing a Virtual International Conference on ***FUTURISTIC DEVELOPMENTS IN MECHANICAL SCIENCES AND TECHNOLOGY (ICFDMST-2021)*** from 23rd – 24th December 2021. ICFDMST-2021 provides an opportunity for meeting of International Researchers, Engineers, Scientists and specialists in various research and development fields of Engineering and Technology. The conference offers a virtual platform for experts to gather and interact intensively on various topics including Applications of AI, ML & IoT in Mechanical Engineering, Automotive Technology, Robotics, Automation and Industry 4.0, MEMS, Theoretical and experimental Fluid Mechanics, Thermodynamics, Heat and Mass Transfer, Materials Science and Metallurgical Engineering, HVAC and many more. The success of this Conference is solely on the dedication and efforts of innumerable people who started working on the preparations for almost a year in many ways to make this Conference become a reality. Eventually I express my special thanks and appreciation to all the organizers & volunteers who made this conference possible. I am also grateful to all the authors, reviewers and keynote speakers for their participations and contributions towards the development of research acumen.

I wish ICFDMST-2021 all the best for its success.

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President, SVKM Mumbai

Hon'ble Shri Bhupeshbhai Patel
Joint President, SVKM Mumbai

Patron

Hon'ble Shri Chintanbhai Patel
Vice-President, SVKM Mumbai

Shri. Rajgopal Bhandari
Member, Managing Committee, SVKM Mumbai

Dr. Ajay Pasari
Mentor, SVKM's Dhule Campus

Dr. K. B. Patil
Advisor, SVKM's Dhule Campus

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Associate Professor & HOD, Mechanical Engineering Department

Dr. Amol Badgujar

Prof. Mohammed Juneduddin

Prof. Dhiraj Bhandarkar

Prof. Satish Patil

Prof. Yogesh Sonawane

Prof. Mahesh Dalwani

Prof. Dattatray Doifode

Prof. Bhushan Behede

Faculty Members of Mechanical Engineering Department

Keynote Expert

Conference Day- 1

Title: Advances in Sheet Metal Forming: Present and Future Prospects

Speaker: Dr. Rahul K. Jagtap (Brief Biography)

He had completed B. Tech (Production Engineering) from Shri Guru Gobind Singhji Institute of Engineering and Technology, Nanded, M. Tech (CAD/CAM) and Ph.D. (Mechanical Engineering) from Sardar Vallabhbhai National Institute of Technology, Surat. He worked as a Programmer Analyst Trainee at Cognizant Technology. He has the experience of working as an Assistant Professor at Thakur College of Engineering and Technology, Mumbai and JSPM Narhe Technical Campus. He also worked as a Research Fellow on a SERB-DST Funder Research Project at S V National Institute of Technology, Surat. Currently he is working as an Assistant Professor at MIT World Peace University, Pune.

Keynote Expert

Conference Day- 2

Title: Printable Thin Film Solar Cell Technology

Speaker: Dr. Brijesh Singh Yadav (Brief Biography)

He has completed Ph.D. (Material Science and Metallurgical Engineering) from Indian Institute of Technology Hyderabad, India and B. Tech. (Mechanical Engineering) from Lovely Professional University, Punjab, India. He has an experience of working as a Senior Research Fellow at Centre for Solar Energy Material, ARCI, Hyderabad. He worked as a Quality Engineer at Omega Industrial Corporation, New Delhi, India. He worked as a Junior Research Fellowship (JRF) at Department of Science and Technology (DST), Govt. of India. He has received Research Excellence Award, Indian Institute of Technology Hyderabad. He was selected for the Augmenting Writing Skills for Articulating Research (AWSAR)-Award and cash prize by the Department of Science and Technology, Government of India. He is also the recipient of Academic Excellence Award by Lovely Professional University, Jalandhar, India. Currently he is working as a Material Science Specialist/Technologist, Saule Technologies, S.A., Wroclaw, Poland.

Conference Themes (not limited to)

- Applications of AI, ML & IoT in Mechanical Engineering
- Automotive Technology
- Design of Mechanical Systems
- Aerospace Engineering
- Nanotechnology and Microengineering
- Robotics, Automation and Industry 4.0
- Additive Manufacturing
- Theoretical, Numerical and Experimental Fluid Mechanics,
- Thermodynamics, Heat and Mass Transfer
- Materials Science and Metallurgical Engineering
- Energy Conservation & Management
- Renewable Energy Technologies,
- MEMS
- HVAC

List of Session Chairs

Name	Affiliation
Dr. Rahul Jagtap	MIT World Peace University, Pune, India
Dr. Dhiraj Deshmukh	MET's Institute of Engineering, Nashik
Mr. Ganesh Wani	Hitachi Astemo Ltd., Pune

List of Reviewers

Name	Affiliation
Dr. Rahul Jagtap	MIT World Peace University, Pune, India
Mr. Avinash Chavan	SJCEM, Palghar
Mr. Ambeprasad Kushwaha	SJCEM, Palghar.
Mr. Janak Suthar	SJCEM, Palghar
Mr. Shivaji Shelar	K K University, Nalanda, Bihar
Mr. Avinash Panchal	G H Raisoni Institute of Business Management, Jalgaon.
Mr. Kiran Beldar	SJCEM, Palghar
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Mr. Dhiraj Bhandarkar	SVKM's Institute of Technology, Dhule, India
Mr. Mahesh Dalwani	SVKM's Institute of Technology, Dhule, India
Mr. Bhushan Behede	SVKM's Institute of Technology, Dhule, India
Mr. Satish Patil	SVKM's Institute of Technology, Dhule, India
Mr. Yogesh Sonawane	SVKM's Institute of Technology, Dhule, India
Mr. Karan Sharma	SVKM's Institute of Technology, Dhule, India

Conference Schedule

Day 1: 23rd December-2021	Day 2: 24th December 2021
Inaugural Function **10.00 AM - 11:00 AM** **Dr. Niles P. Salunke** **(Principal, SVKM's Institute of Technology, Dhule)** **General Chair-ICFDMST-2021**	
Key note Speaker-1 **Time: 11:00 am – 12.00 pm** **Keynote Speaker**: - Dr. Rahul Jagtap (MIT WPU, Pune) *Topic: Advances in Sheet Metal Forming: Present and Future Prospects.*	**Key note Speaker-2** **Time: 11:00 am – 12.00 pm:** **Keynote Speaker:** Dr. Brijesh Singh Yadav Ph.D. (IIT Hyderabad). *Topic – Printable Thin Film Solar Cell Technology*
Tea Break 12:00 PM -12.30 PM	**Tea Break 12:00 PM -12.30 PM**
Paper presentation - Sessions #1 **Time: 12:30 pm - 2.00 pm** **Session Chair:** Dr. Rahul Jagtap, **Session Coordinator**: Prof. Yogesh Sonawane	**Paper presentation - Sessions #3** **Time: 12:30 pm - 2.00 pm** **Session Chair: Mr. Ganesh Wani,** **Session Coordinator: Prof. Mahesh Dalwani**
Lunch Break: 2:00 PM -2.30 PM	**Lunch Break: 2:00 PM -2.30 PM**
Paper presentation - Sessions #2 **Time: 2:30 pm – 4.00 pm** **Session Chair:** Dr. Dhiraj Deshmukh, **Session Coordinator:** Prof. Mahesh Dalwani	**Validatory Function** **2.30 PM – 3.00 PM**

Conference Schedule: Day:1: Session:1

Date: 23rd December 2021

Time: 11:00 am – 12.00 pm

Keynote Speaker: - Dr. Rahul Jagtap (MIT WPU, Pune)

Topic: Advances in Sheet Metal Forming: Present and Future Prospects.

Time: 12:30 pm - 2.00 pm

Paper Presentations

Session Chair: Dr. Rahul Jagtap, **Session Coordinator**: Prof. Yogesh Sonawane

Paper ID	Title of the paper	Authors
1	Barriers for effective implementation of Supply Chain Management (SCM) practices in manufacturing sector – A Systematic Literature Review	Shivanand Prabhuswamimath, Mahantesh Halagatti, Vinayak Banakar, Adarsh Patil and Chetan Hiremath
2	Automated Human Following (AHF) Robot	Adithya Basker, Malcolm Dias, Kushal Chavan,Nageshwar Avhad and Aqleem Siddiqui
7	Design And Analysis of Oxyhydrogen Generator– A Review	Kaustubh Dhanu, Nimish Dichwalkar, Sahil Narkar,Aniket Navale and Prathamesh Choughule
9	Industry 4.0 Technologies in Maintenance, Repairand Overhaul Industry: A Review	Sanket Mudgalkar and Nilesh Ware
11	Prediction of wear rate and friction coefficient ofthe stir casted Al-SiC MMC through ANN	Equbal Ahmed, Muhammed Muaz and Akhter H Ansari
12	Use of phase change materials (PCMs) to increasesolar still productivity - A review	Kailas Deore, Nilesh Salunke and Sudhakar Pawar
13	Recent Advances on the Effect of Nanofluids in Solar Thermal Energy: Review	Yogeshkumar Pathak, Nilesh Salunke and Prajitsen Damle

Conference Schedule: Day:1, Session:2

Date: 23rd December 2021

Time: 2:30 pm – 4.00 pm

Paper Presentation

Session Chair: Dr. Dhiraj Deshmukh, **Session Coordinator:** Prof. Mahesh Dalwani

Paper ID	Title of the paper	Authors
14	A Study of Advancement of Phase Change Materials for Solar Absorption Refrigeration System	Bhushan Patil, Nilesh Salunke and Vijay Diware
15	A Review on Effects of Nanoparticles in Solar Energy Systems	Juber Ahamad and Dr. Nilesh Salunke
17	Prospects for Biodiesel Production in India	Kiran Chaudhari, Dr. Nilesh Salunke and Dr.Vijay Diware
18	A Review on Displacement Amplification Mechanism in Micro-Electro- Mechanical System	Rohan Ozarkar, Nilesh Salunke and Prajitsen Damle
19	Electricity Generation by Two-wheeler suspension systems	Gurpreet Singh Matharou, Rishabh Dhawan, Sagar Bansal and Sachin Singh
20	Ultrasonic Welding of Composites: A Review	Md. Yusuf Rahmani and Surendra Kumar Saini
22	Delamination error analysis in drilling of CFRP composite using different drill tools	Venkatram Reddy A, Bhargavi M, Niranjan T and Singaravel B
27	Thermal Analysis Of Vertical Heated Cylinder By Using V – Shape Fins	Vipul Bhamare, Avinash Chaudhari, Mayuresh Patil and Amrut Patil
30	Prediction of flow particle behavior in Cyclone separator using Computational Flow Dynamics	Upendra Singh and Bhupendra Singh More

Conference Schedule: Day 2: Session:3

Date: 24th December 2021

Time: 11:00 am – 12.00 pm:

Keynote Speaker: Dr. Brijesh Singh Yadav Ph.D. (IIT Hyderabad)

(Technology Specialist in Materials Engineering Saule Technology Inc., Poland).

Topic – Printable Thin Film Solar Cell Technology

Time: 12:30 am – 2.00 pm:

Paper Presentation:

Session Chair: Mr. Ganesh Wani, Hitachi Astemo Ltd., Pune

Session Coordinator: Prof. Mahesh Dalwani

Paper ID	Title of the paper	Authors
21	Review on Development of Aluminosilicate ZeoliteBased Desiccants for Rotary Dehumidifier	Khushal Chaudhari, Kamlesh Thakare, Mayur Shinde and Gaurav Patil
24	Review On Various Anticorrosive Coatings for IceCan	Ruchita Ahire, Harshada Jagtap, Dipali Varade and Om Ahirrao
26	Low-Cost Cleaning Techniques	Abhishek Jain and Ganesh Dhaybar
28	Review on Agricultural Drone and its Application	Kuldeep Sonawane, Mayur Kothawade, Pratik Deore, Rohit Mahajan
31	Design And Analysis of Chassis Frame of LMV:Review	Anish Fulzade, Samyak Mudawadkar and Rohit Pawar More, Ninad
32	Design, Construction and Testing of fully automated Speed Breaker: Review	Yogesh More, Pankaj Sonawane and Girish Marathe
34	Review on Multiple Injections in Single CylinderDiesel Engine	Tejas Shinde, Yadnesh Gujar, Mayur Sawant and Shubham Suryawanshi

36	Performance evaluation of PCM based Solar WaterHeater using Machine Learning: Comprehensive Review	Nilesh Patil, Shubham Sharma, Dhiraj Gharate and Chirag Hire
37	Evaluation of the solar panel performance usingmachine learning	Parth Punjabi, Rushikesh Jagtap and Niraj Chaudhari
35	Systematic Review on Uses of NLP	Shaikh Sohail Ahmed Kaleem Ahmed Shaikh, Awias Sarosh Ansari Ansari, Gaurav Bharat Wagh and Kaushal Jayant Lohar Lohar

ABSTRACTS FROM PRESENTED PAPERS

INDEX OF THE PROCEEDINGS

Barriers for effective implementation of Supply Chain Management (SCM) practices in manufacturing sector –A Systematic Literature Review

Paper ID: ICFDMST2021_1

Authors:

Shivanand Prabhuswamimath, Mahantesh Halagatti,

Vinayak Banakar, Adarsh Patil4, Chetan Hiremath.

Abstract

The main motive behind this work is to analyze the potential barriers and their relevance for supply chain management (SCM) activities which in turn has great impact on organizational performance in manufacturing sector through literature survey of last 20 years. SCM is important for organizations achieve their mission and vision and organization top management are faced with many complex situations in implementing SCM practices. These barriers/factors play a very predominant role in the analysis of performance of supply chain activities for an organization as the competition is no longer between companies and it is truly among different supply chains in today's era of globalization and competition. Effective supply chain management is the need of the hour for survival of an organization in multifaceted complex environment and to attain it, organizations need to keep an eye on all the barriers which are hindering supply chain activities. SME (Small and Medium enterprises which are a backbone for developing countries in terms of contributing to GDP and creating job opportunities in local regions, are lagging behind large enterprises in effective management of supply chain activities.

Keywords: supply chain management, barriers, manufacturing, small and medium enterprises, and organizational performance.

Automated Human Following (AHF) Robot

Paper ID: ICFDMST2021_2

Authors: Aqleem Siddiqui, Adithya Basker, Malcolm Dias, Kushal Chavan and Nageshwar Avhad

Abstract

The Automated human following (AHF) robot is a simplified form of Automated Guided Vehicle (AGV) which predominantly used in industries and warehouses for the purpose of transfer of goods from one point to another. The AHF is will also be used for the same purpose of goods transfer but the goods would be lighter and the environment would not be limited only to industrial usage but also serve a good purpose as a domestic and personalized carrier. The AHF is a robot which would be following its master/user on the basis of the user's smart phone location. This would be done by means of GPS modules and the Bluetooth module would help the robot to detect its master's smartphone from multiple smartphones present in the radius. This paper is about the attempt to provide a low cost and efficient automation solution for all the environment possible for transfer of light weight goods, files & other stuffs across dynamic environments. This automation technique would allow the transportation and carrying of goods in a more efficient and contact-less manner. The paper also includes detailed information about the body, sensors and actuators of the AHF.

Keywords: AGV, AHF, Arduino IDE, Arduino MEGA, Autodesk Inventor.

DESIGN AND ANALYSIS OF OXYHYDROGEN GENERATOR – A REVIEW

Paper ID: ICFDMST2021_7

Authors: Kaustubh Dhanu M, Nimish R. Dichwalkar, Sahil S. Narkar V K,
Aniket S. Navale, Prathamesh Chougule

Abstract

Greenhouse gases are the major cause behind the present global climate change and heating issue. The transportation sector generates the most important share of the greenhouse emission. To solve this issue, an alternate renewable fuel used for internal combustion engine is one of the best ways through which we can get solution about fuel shortage and carbon emission of the engine. The unique combustion characteristics of hydrogen helps to scale back the carbon emission of the engine. The oxy-hydrogen generator has been used to increase the fuel efficiency without major changes within the existing internal combustion engine. The production rate of HHO gas depend upon the various elements, i.e., input voltage, quality of water, temperature of water. An efficient HHO generator is meant to supply an outsized amount of HHO gas by employing a less amount of power. This HHO gas can be use as a secondary fuel on demand, in internal combustion engine (petrol and diesel) with no need of storage. Characteristics of HHO gas helps to enhance the combustion which ultimately reduces the engine emission. In this paper, we have study and reviewed some research done by people over a recent time on the use of HHO gas and its generation for IC engines to increase the efficiency and reduce the overall use of conventional fuels.

Keywords: Greenhouse gas, HHO Generator, Electrolysis process, Enhanced Combustion, Efficient HHO Generator etc.

Industry 4.0 Technologies in Maintenance, Repair and Overhaul Industry: A Review

Paper ID: ICFDMST2021_9

Authors: Sanket Ashok Mudgalkar, Nilesh Ware

Abstract

Companies are extensively implementing Industry 4.0 technologies to achieve competitive advantage. Industry 4.0 enables transformation from machine dominant manufacturing to digital-based manufacturing. However, the research is still in its infancy in the MRO (Maintenance, Repair, and overhaul) sector. MRO refers to a set of activities required to keep the machinery in working conditions, including inventory management, repairing in case of damage, inspection, and replacing damaged parts by entirely disassembling the machine and then reassembling it. MRO companies have started implementing Industry 4.0 technologies to improve the operational efficiency of maintenance activities. The study shows that there is an increasing trend in applications of Big data, AI and IoT. However, applications of Blockchain, cybersecurity, and Additive manufacturing have received less attention from researchers in the MRO Industry domain. This study aims to study the application of all technologies under Industry 4.0 in the MRO Industry and the challenges associated with implementing these technologies. We have identified and studied eleven significant Industry 4.0 Technologies and their applications in the context of MRO. This study shall help both the academicians and industry practitioners as it will give directions for further research and an overview of existing implementation practices in the domain.

Keywords: Industry 4.0, Maintenance Repair and Overhaul, Big data and analytics, Artificial Intelligence (AI), Internet of things (IoT) and Digital twin.

Prediction of wear rate and friction coefficient of stir casted Al-SiC MMC through ANN

Paper ID: ICFDMST2021_11

Authors: Equbal Ahmed, Muhammed Muaz, Akhter Husain Ansari

Abstract

Purpose of this work is to apply ANN technique to predict the mechanical properties of a metal matrix composite. Improvements in the properties and performance of materials have always been a great concern for researchers. These improvements can be achieved by developing metal matrix composites. Several additives can be added to tailor the characteristics of the material. In this paper, experimental data is taken from a published paper. Then ANN is applied to predict the output values. In the ANN model, there are five inputs and two outputs, while ten hidden layers and two output layers. The model is so efficient that it is able to predict the data with a very small prediction error of the order of 0.001.

Keywords: Neural network; stir casting, wear rate; friction coefficient; metal matrix composite

Use of phase change materials (PCMs) to increase solar still productivity: - A review

Paper ID: ICFDMST2021_12

Authors: Kailas D. Deore, Dr. Nilesh P. Salunke, Dr. Sudhakar B. Pawar

Abstract

This review study examines the use of phase change materials (PCMs) as latent heat storage devices to improve the productivity of solar stills. According to these findings, a passive solar still with PCM can increase productivity by up to 120 percent when compared to a solar still without PCM. Meanwhile, the productivity boost from a PCM-equipped active solar still might be as high as 700 percent. These findings show that as the PCM mass increases and the salty water mass decreases, productivity rises. The PCM is also found to be less effective during the day than at night. Organic PCMs (like paraffin) were also discovered to be the most frequently used in productivity improvement studies, with inorganic and eutectic PCMs receiving very little attention.

Keywords: Phase change material, solar still, paraffin wax, etc.

Recent Advances on the Effect of Nanofluids in Solar Thermal Energy: A Review

Paper ID: ICFDMST2021_13

Authors: Yogeshkumar R. Pathak, Dr. Nilesh P. Salunke, Dr. Prajitsen G. Damle

Abstract

Sun is the prime source of energy in the universe. Solar energy is available freely and has no adverse effect on the environment like greenhouse gases, CO2 emission etc. The main hurdle for the researchers is the storage and proper utilization of this available solar energy. The conversion of solar energy into the thermal energy can be done through the flat plate solar collector. In solar collectors, the temperature of the fluid flowing through the solar collector can be increases by absorbing the heat form the solar energy. The major challenge in the use of solar collector is its low efficiency. In last decade, the research is being done on the performance improvement of solar collector. One of the methods to improve the performance of solar collector is improvement in the thermal properties of the working fluid. It can be done by suspending the nanoparticles in the working fluid. This article highlights the use of nanofluids in performance improvement of solar flat plate collector.

Keywords: Solar Energy, Greenhouse gases, Nanofluids.

A Study of Advancement of Phase Change Materials for Solar Absorption Refrigeration System

Paper ID: ICFDMST2021_14

Authors: Bhushan Patil. Dr. Nilesh Salunke, Dr. Vijay Diware

Abstract

In today's environment, solar energy is a renewable energy source that may be used for a variety of purposes. The efficient utilization of solar energy necessitates the development of a storage media that can store extra energy and then provide it when it is needed. The use of phase transition materials is an effective approach of storing solar thermal energy (PCMs). Because PCMs are isothermal in nature, they have a higher energy storage density and can work in a wide variety of temperatures. The phase change enthalpy, thermal conductivity, heat capacity, and density are the most significant parameter in the characterization of phase change materials (PCM). The most extensively used technique for assessing thermophysical characteristics is differential scanning calorimetry (DSC). However, various novel approaches have been presented in the literature, mostly to overcome DSC's limitations, particularly the small sample size required, which is insufficient for researching inhomogeneous materials. In a system-level strategy, the thermal stableness of PCM, medium of confinement and heat transfer fluid, as well as their congenial combination, as shown. Energy and exergy efficiency are used to evaluate the system's thermal performance during phase transition. The use of nanoparticles has considerably improved the performance of a vapour absorption refrigeration system. The numerous characteristics of PCMs would affect the operation of the LHS integrated solar absorption refrigeration system. PCMs have to cope with various phase transitions in order to preserve material stability in appropriate property descriptions such as thermal, physical, chemical characteristics, high-energy storage density, shape-stabilized PCMs, high latent heats and excellent capabilities of maintaining almost constant temperature.

Keywords: Phase change materials (PCMs), Differential scanning calorimetry (DSC), Thermal energy storage (THS), Heat transfer fluid (HTF), Sensible heat storage (SHS), Latent heat storage (LHS).

Effects of Nanoparticles on the Thermal Performance of Solar Energy Applications -A Review

Paper ID: ICFDMST2021_15

Authors: Juber Ahamad Mo. Salim Khatik, Dr. Nilesh P. Salunke

Abstract

The potential of solar energy around the world has been estimated to be many times greater than the current overall primary energy demand. Now a day a number of solar energy applications, like solar collector, solar cooker, solar still, solar cell etc are most widely used. The impacts of nanoparticles on the thermal performance of solar energy systems are discussed in this paper. Nanoparticles are commonly employed in solar energy applications as coatings, nanofluids, and phase change materials.

Keywords: Solae energy, nanoparticles, coatings, nanofluids, PCM

Prospects for Biodiesel Production in India

Paper ID: ICFDMST2021_17

Authors: Kiran Dinkar Chaudhari, Dr. Nilesh P. Salunke, Dr. Vijay R. Diware

Abstract

Global awareness of the effects of automobile emission and its effects such as climate change has been on the rise for the last few decades. Bioenergy and Biofuel are some of the accepted solutions towards reducing dependency on conventional fossil fuels. Being one of the largest populated countries on the planet, India has also defined and implemented its Biofuels policy timely. This paper discusses various approaches to biodiesel production and critical input parameter variability that influence biodiesel production.

Keywords: Bioenergy Policy, Biodiesel production, variability.

A Review on Displacement Amplification Mechanism in Micro-Electro-Mechanical System

Paper ID: ICFDMST2021_18

Authors: Rohan R. Ozarkar, Dr. Nilesh P. Salunke, Dr. Prajitsen G. Damle

Abstract

Micro-electro mechanical systems (MEMS) have applications as micro-actuator, micro-sensor, RF MEMS, optical MEMS, bio-MEMS in the areas like micro-robotics, automobile, biomedical, space and electronic industry. In MEMS there are various types of micro-actuator like piezoelectric, thermal, electrostatic, magnetic actuator which are used to produce displacement in range of few microns. Micro-actuators are used in opening and closing of the valves of micro-pumps, micro-stages, DVD player, micro-gripper and resonator. In today's scenario there is a need of the compact devices which can be fabricated to produce large displacement in small built-up area. The displacement amplification mechanisms can be used with micro-actuators to increased displacement rage. Different displacement amplification mechanisms (DAMs) form literature are studied and classified on the basis of parameters like geometric advantage (GA), actuating principle, fabrication technique and micro-actuator used for actuation.

Keywords: Displacement Amplification Mechanism, Microactuators, MEMS, Compliant Mechanism.

Electricity Generation by Two-wheeler suspension systems

Paper ID: ICFDMST2021_19

Authors: Gurpreet Singh Matharou, Rishabh Dhawan, Sagar Bansal, Sachin Singh

Abstract

The primary goal of developing a controller for a car suspension system is to ease passengers' discomfort caused by road roughness and improve ride handling related to pitching and rolling motions. We employed a spring, rack, and pinion setup, and a double-fed induction generator in our project. As a result of the shock absorber effect, the spring is compressed, and the rack's linear movement is transformed to circular motion as the pinion travels owing to the rack's meshing with the pinion. Additionally, the pinion is positioned on the shaft that connects to the doubly-fed induction generator's shaft. Due to this configuration, the generator is rotated by the rotating motion of the pinion. As a result of generator spinning, energy is generated. And this energy is utilized to charge the battery, which is then used to power various car features such as power windows, lighting, and the air conditioner. The paper also addresses the related calculation of power generation and optimization of suspension dampers for the best electricity output.

Keywords: Shock absorber, Regenerative suspension, Rack and pinion.

Ultrasonic Welding of Composites: A Review

Paper ID: ICFDMST2021_20

Authors: Md. Yusuf Rahmani, Surendra Kumar Saini

Abstract

Ultrasonic welding is one type of advanced welding process in which ultrasonic energy is used to join the different materials. This process is energy efficient and pollution free. This paper presents a short review of ultrasonic and hybrid ultrasonic welding of different soft engineering materials like polymers and polymer-based composites. Ultrasonic welded components are mainly used for plastic, automotive, medical and electronic industries

Keywords: Ultrasonic welding, hybrid welding and polymers

Review on Development of Aluminosilicate Zeolite Based Desiccants for Rotary Dehumidifier

Paper ID: ICFDMST2021_21

Authors: Mr. Khushal C. Chaudhari, Mr. Kamlesh P. Thakare,
Mr. Mayur J. Shinde, Mr. Gaurav R. Patil,

Abstract

A rotary desiccant-based air-conditioning system is a heat-driven hybrid system that combines different technologies such as desiccant dehumidification, refrigeration, and regeneration. This system has an opportunity to utilize low grade thermal energy obtained from the sun or other sources. In this paper, for new desiccant materials, there is great potential for improving the performance and consistency of rotary desiccant systems; at the same time, the use of solar energy for regeneration purposes can minimize the operating cost to a great extent. Some examples are presented to demonstrate how rotary desiccant air conditioning can be a promising solution for replacing traditional vapor-compression air-conditioning systems. Recent advances and ongoing research related to solar-powered hybrid rotary desiccant cooling systems are also summarized

Keywords: solar-powered hybrid rotary desiccant cooling systems.

Delamination error analysis in drilling of CFRP composite using different drill tools

Paper ID: ICFDMST2021_22

Authors: A. Venkatram Reddy, M. Bhargavi, T. Niranjan, B. Singaravel,

Abstract

Carbon Fiber Reinforced Polymer (CFRP) composite is preferred widely in the area of aerospace and automotive industries due to its lightweight and high strength. Drilling of FRP composite and its related issues are important. The selection of appropriate drill tools is one of the methods to control the errors during drilling. In this work, an experimental investigation is carried out on minimization of delamination effect by the selection of appropriate drill tool and process parameters level. Various drill tools are attempted by researchers for controlling delamination errors during drilling of CFRP. The important drill types are twist drill, core saw drill, and brad drill. The result is noticed that a lower value of delamination factor is noticed with a higher level of spindle speed (1250 rpm) and lower level of federate (0.10 mm/rev) with a core saw drill. Core saw drill and brad spur drill are provided a lower value of delamination factor than a conventional twist drill. This study is focused on cutting performance with the effect of a special drill than conventional one for the effect of delamination error reduction and accuracy. It is noticed that delamination error could be controlled by an appropriate drill tool combined with optimum process parameters.

Keywords: Drilling; Delamination, Drill types, CFRP.

Review On Various Anticorrosive Coatings for Ice Can

Paper ID: ICFDMST2021_24

Authors: Ms. Ruchita Satish Ahire , Ms. Harshada Shamkant Jagtap,
Mr. Om Machindra Ahirrao, Ms. Dipali Bharatarinath Varade

Abstract

Refrigeration is the act of lowering and maintaining a temperature below that of the surrounding air, with the goal of freezing ice, cooling a product, or cooling a place to the appropriate temperature. The capacity of liquids to absorb tremendous amounts of heat when they boil and evaporate is the foundation of contemporary refrigeration. The ice plant is one of the most essential refrigeration applications, which worked on the VCRS (Vapour Compression Refrigeration System). The ice plant is used to provide a cooling effect in order to freeze potable water in standard cans that are put in a rectangular tank that is filled with brine. Our paper is to prevent those cans from corrosion due to the Brine Solution (NaCl) by using the coatings.

Keywords: Ice plant, VCRs, Ice can, Coating, Corrosion prevention, Zinc.

Low-Cost Cleaning Techniques

Paper ID: ICFDMST2021_26

Authors: Abhishek Pramod Jain, Ganesh Anant Dhaybar

Abstract

Cleaning plays a vital role in day-to-day life. Cleaning helps improve the living standards of people and reduces the disease rate in human beings. Many advancements have been brought in in cleaning techniques. In the modern World, Cleaning requires high-end equipment. This paper consists of a review of different waste collecting machines and equipment. The processes involved are timesaving and more hygienic compared to that of the old technique.

Keywords: Cleaning techniques, waste management, literature review, Cow dung Collector

Thermal Analysis of Vertical Heated Cylinder By Using V –Shape Fins

Paper ID: ICFDMST2021_27

Authors: Vipul Vishwasrao Bhamare, Avinash Anil Chaudhari,
Mayuresh Yashwant Patil, Amrut Asaram Patil

Abstract

Natural convection is an important mode of heat transfer. It is used in many engineering applications such as cooling of electronic equipment's, cooling of PCB, refrigeration and air conditioning, I.C. engines, radiators of automobiles, etc. Some of these heat sinks are cylindrical in shape. The heat that is generated or developed in such system that conducts through the walls or boundaries is need to be continuously dissipated to the surroundings to keep the system in steady state condition. Large quantities of heat have to be dissipated from small area as heat transfer by convection between a surface and the fluid surroundings. It can be increased by attaching fins or extended surfaces. V shape fins have been selected for cooling such cylindrical surfaces or heat sinks. Initially the dimensions for the vertical cylinder with array of v shape fins have been obtained. Computational analyses of array of v shape fins over vertical heated cylinder have been studied by using Ansys software. The maximum natural convective heat transfer coefficient has been obtained for 60o v shape fins. V shape fins acts as a flow turbulator or flow separator. The computational results are also compared with analytical results for validations.

Keywords: Finite element analysis, vertical cylinder, CFD analysis, thermal analysis, V-shape fin, fins.

Review on Agricultural Drone and its Application

Paper ID: ICFDMST2021_28

Authors: Kuldeep Sonawane, Mayur Kothawade, Pratik Deore, Rohit Mahajan

Abstract

In order to increase good yield of crops, fertilizations is the basic step. While spraying fertilizer farmer faces various problems like health issues, shortage of labor etc. So, in order to over this problem various techniques are discussed in the paper.

Keywords: Drone, Fertilization, Agriculture, Pesticide, Spraying

Prediction of flow particle behavior in Cyclone separator using Computational Flow Dynamics

Paper ID: ICFDMST2021_30

Authors: Upendra Singh, Bhupendra Singh More

Abstract

Computational Fluid Dynamics (CFD) is used to forecast and assess the impact of temperature, operating pressure and inlet velocity on the overall performance of gas cyclones. The numerical answers were completed using spreadsheets and the commercial CFD language FLUENT. In addition, two models for predicting cyclone collecting performance are examined in this work. All of the forecasts have shown to be appropriate when compared to subsequent results. The CFD model is the most effective technique of simulating cyclone collecting efficiency, according to the findings of the computer modeling experiment. Cyclones are particularly well adapted to high temperature and pressure conditions because of their strong structure and lightweight component materials. Cyclone collection is effective for particles bigger than 5μm, however we can deal with smaller particles of dust loadings of 5μm here. Refer to our forecast with the aid of 3 and 5 m/s speed. The difference between the results of pollutants removed by cyclones for air quality control and process applications were examined.

Keywords: Gas cyclones, CFD, ANSYS Fluent

Design And Analysis of Chassis Frame of LMV: Review

Paper ID: ICFDMST2021_31

Authors: Mudawadkar Ninad Ajay, Fulzade Anish Mahesh,
More Samyak Parshuram, Pawar Rohit Vibhuti.

Abstract

In this paper several Designed and Analysis on the chassis frame is reported. In addition to the strength the chassis should with stand adequate bending and torsional stiffness. The work performed towards analysis of the chassis with constraints of stiffness and strength by using finite element analysis software. The development is to promote the application of advanced High Strength Steel grades for mass saving of chassis parts consisting in replacing current steel grades by thinner gauge ones having higher mechanical properties.

Keywords: Finite Element, Stiffness, Chassis Frame, Mechanical Properties

Design, Construction and Testing of Fully Automated Speed Breaker: Review

Paper ID: ICFDMST2021_32

Authors: Yogesh M. More1, Girish U. Marathe, Mihir M. Lohar3, Pankaj B. Sonawane

Abstract

Many techniques and innovations have been made in previous years in the working of speed breakers but still few loopholes need to get fixed. The world is now heading towards automation so, we decided to work on automation and timing. There are various problems caused because of every type of speed breaker. To overcome this issue, we have designed and constructed a speed breaker which is fully automatic and have a background of AI, IoT and ML.

Keywords: Fully Automated Speed Breaker, Internet of Things, Machine Learning, Artificial Intelligence, Mobile and adjustable breaker.

Review on Multiple Injections in Single Cylinder Diesel Engine

Paper ID: ICFDMST2021_34

Authors: Mr. Tejas Harish Shinde, Mr. Yadnesh Dhanraj Gujar, Mr. Shubham Sunil Suryawanshi, Mr. Mayur Dhanraj Sawant, Mr. Mahendra Patil,

Abstract

Improving the efficiency of an engine is of great importance to reduce pollution or greenhouse gas. This paper includes study of single cylinder CI engine by multiple injections using different biodiesel and study shows that optimized multiple injection gives better result than single injection in terms of efficiency and reduction in pollution gases. The main reason of why it gives better result is that centre of cylinder this the heat transfer between the heat produced from the fuel gas mixture and the cylinder liver can be reduced by the isolation.

Keywords: HCCI, PCCI, RCCI, Biodiesel, Multiple Injection

Systematic Review on Uses of NLP

Paper ID: ICFDMST2021_35

Authors: Awais Sarosh Ansari, Gaurav Bharat Wagh,
Kaushal Jayant Lohar,Sohail Kaleem Shaikh

Abstract.

Natural Language Processing (NLP) is a subfield of Artificial Intelligence that is receiving a lot of attention in terms of research and development as a result of the growing number of applications. Natural Language Processing (NLP) is a computerised method of analysing texts. NLP entails obtaining information on how humans comprehend and use language. This is being done in order to build tools and approaches that will allow computers to interpret and manipulate natural languages in order to execute various tasks. Natural language processing is being used in a variety of industries, including healthcare, finance, manufacturing, and education, retail, and customer service.

This paper examines the literature on the uses of Natural Language Processing (NLP) in machine translation, text analysis, and conversational & question answering systems. It also includes a brief history of NLP as well as earlier NLP research. It is based on the examination of documents. This research article may be useful to anyone interested in studying and learning about natural language processing (NLP) and its uses.

Keywords: Natural Language Processing, Question Answering Systems, Machine Translation, Text Analysis,
Syntactic and semantic analysis

Performance evaluation of PCM based Solar Water Heater using Machine Learning: Comprehensive Review

Paper ID: ICFDMST2021_36

Authors: Nilesh Gokul Patil, Shubham Gopal Sharma,
Dhiraj Dipak Gharate, Chirag Mahendra Hire

Abstract

The consumption of energy by cooling and heating devices is significant. Also, the refrigerant used in these devices is harmful for environment and causes global warming. Use of solar energy for this purpose is idle as it saves the energy consumption and does not produce any harmful effect on the environment. Conventional solar water heating/cooling devices have lesser working efficiency that can be increased with the use of thermal energy storage, one of the most efficient methods of storing solar energy. This paper summarizes the investigation and methodology for performance prediction of solar heating/cooling devices incorporated with or without pcm using Machine learning as predicting the same with the help of analytical method will be difficult due to the non-linear behavior of PCM. Machine Learning models such as ANN and SVM have been the most often employed.

Keywords: Solar heater, PCM, Machine learning, ANN, SVM.

Evaluation of the solar PV panel performance using machine learning: Literature Review

Paper ID: ICFDMST2021_37

Authors: Parth Kailash Punjabi, Niraj Vijay Chaudhari, Rushikesh Ravindra Jagtap

Abstract

Photovoltaic (PV) systems have emerged as one of the most promising alternative energy sources, converting the sun's energy into electricity. This is typically possible without causing major environmental damage. Despite their increasing use in residential areas and the construction sector, PV systems are still seen as unreliable, changeable, and irregular power sources. This is because the power output is controlled to some extent by the environment conditions, which can alter substantially depending on the system's geographic region. As a result, machine learning based approaches are increasingly being utilized to explore the effects of climate change on solar power generation. After that, the most effective machine learning model is used to forecast the generated power

Keywords: Photovoltaic Systems; Machine Learning; Supervised Learning; Artificial Neural Networks; K-Nearest Neighbors; Linear Regression; Support Vector Machine.

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