



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
(Deemed to be University under section 3 of the UGC Act 1956)



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**DEPARTMENT OF MECHANICAL ENGINEERING**

**CIRCULAR**

Ref No:21-22/Even/Sem/10

**27<sup>th</sup> MAY 2022**

Department of Mechanical Engineering, in association with the Indian Institute of Metals (IIM) Kalpakkam Chapter, is organizing a one-day seminar on “Design and Manufacturing Challenges of High Strength Steel in Automotive Light Weighting” for all the students on 30.5.2022 at 10.30 am. Resource person Mr. Charles Munirathnam, Senior Manager, Wheels India Limited, Chennai All the students are requested to register and participate in the seminar the invitation is herewith attached

**HOD**

Circulated to:	1. All the faculty members 2. All the students
Copy to	1. Principal Office 2. Department Notice Board



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**DEPARTMENT OF MECHANICAL ENGINEERING  
&  
INDIAN INSTITUTE OF METALS (IIM) KALPAKKAM CHAPTER**

*Cordially invites you all for*

**SEMINAR ON “DESIGN AND MANUFACTURING CHALLENGES OF HIGH STRENGTH  
STEEL IN AUTOMOTIVE LIGHT WEIGHTING”**

**DATE & TIME: 30<sup>th</sup> MAY 2022 & 10.30 AM**

**RESOURCE PERSON**

**Mr. CHARLES MUNIRATHNAM,  
SENIOR MANAGER, WHEELS INDIA LIMITED, CHENNAI**

**PRESIDENTIAL ADDRESS**

**Dr.G.SELVAKUMAR  
PRINCIPAL**

**Welcome Address**

**Dr. L.PRABHU  
VP (ADMIN) & HOD / MECH, AVIT**

**Coordinator**

**Mr.S.ASHOKKUMAR & Mr.A.ELANTHIRAIYAN  
ASSISTANT PROFESSOR (Gr-II)/ MECH ,AVIT**



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## DEPARTMENT OF MECHANICAL ENGINEERING

### BROCHURE

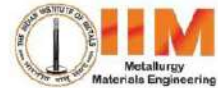


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**AVIT**  
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Department of Mechanical Engineering  
in association with  
Indian Institute of Metals (IIM) Kalpakkam Chapter



*Cordially invites you all for the Seminar on*

## Design and Manufacturing Challenges of High Strength Steel in Automotive Light Weighting

**30<sup>th</sup> May 2022 @ 10.30 a.m | Digital Class Room**

#### *Resource person*

**Mr. Charles Munirathnam**  
Senior Manager,  
Wheels India Limited, Chennai

#### *In the presence of*

**Dr. G. Selvakumar,**  
Principal

**Dr. L. Prabhu,**  
VP (Admin.) & HoD, Mechanical

#### **Event Coordinator**

**Mr. S. Ashokkumar,** AP (Gr-II), Mech.

**Mr. A. Elanthiraiyan,** AP (Gr-II), Mech.



AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING

Ref: 21-22/Even/Sem/10

Date: 30.05.2022

From

Mr.S.Ashokkumar  
Assistant Professor Gr-II,  
Department of Mechanical Engineering,  
Aarupadai Veedu Institute of Technology  
Paiyanoor-603 104

To

The Principal,  
Aarupadai Veedu Institute of Technology  
Paiyanoor-603 104


Respected Sir,

Sub: Submission of Mechanical Engineering Department Event-Report- Reg.

The Department of Mechanical Engineering has organized a Seminar on **“DESIGN AND MANUFACTURING CHALLENGES OF HIGH STRENGTH STEEL IN AUTOMOTIVE LIGHT WEIGHTING”** on 30.5.2022 @10.30am in a digital classroom. Resource person Mr. Charles Munirathnam, Senior Manager, Wheels India Limited, Chennai The report of the program is herewith attached for your kind perusal.

Thanking you,

With regards,



Event Coordinator

VP Admin & HOD/ MECH /AVIT

Mr.S.Ashokkumar & Mr.A.Elanthiraiyan  
AP (G-II)/MECH/AVIT



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**DEPARTMENT OF MECHANICAL ENGINEERING  
&  
INDIAN INSTITUTE OF METALS (IIM) KALPAKKAM CHAPTER**

**Report – SEMINAR ON “DESIGN AND MANUFACTURING CHALLENGES OF HIGH STRENGTH STEEL  
IN AUTOMOTIVE LIGHT WEIGHTING”**

**30<sup>th</sup> MAY 2022**

**No. of. Participants- 67**

**Resource person: Mr.CHARLES MUNIRATHNAM, Senior Manager, Wheels India Limited, Chennai.**

Department of Mechanical Engineering & Indian Institute Of Metals (IIM) Kalpakkam Chapter Jointly Organizing A Seminar On “Design and Manufacturing Challenges of High Strength Steel In Automotive Light Weighting” on 30<sup>th</sup> May 2022. The welcome address was given by Dr. L.Prabhu, VP (Admin) & HOD. The chief guest introduction was given by Mr. Ranjan Kumar Mandal II Year Mechanical. Vote of thanks was given by Mr.S.Ashokkumar, Assistant professor (Gr-II)/Mechanical. Event coordinators are S.Ashokkumar & A.Elanthiraiyan, Assistant Professor (Gr-II).

**The topics covered in webinar:**

- ✚ Introduction - Why Light Weighting is an essential need in automotive industry?
- ✚ Lightweight Material Issues Impacting the Industry
- ✚ Automobiles will be getting significantly lighter over the next 10 years.
- ✚ Good engineering and design cannot account for all mass reduction necessary.
- ✚ Appropriate use of a variety of lightweight materials will be necessary to meet the mass targets.
- ✚ Lightweight materials community needs to focus on Improving existing materials and forming processes, Developing new materials with improved properties and Resolving engineering issues during materials development.

**Conclusions of the seminar**

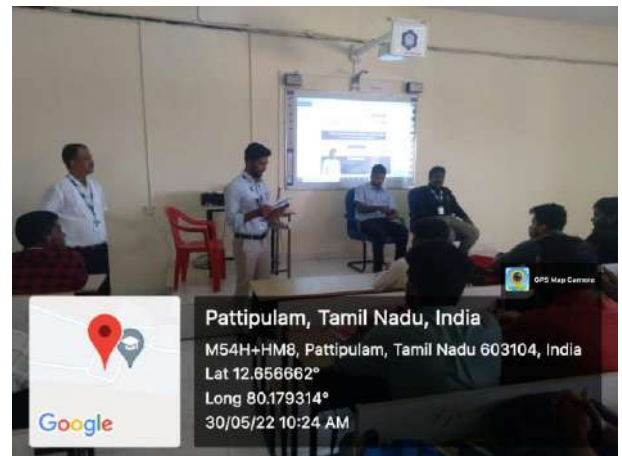
- ✚ High strength steel grades reduce mass - lower carbon footprint for vehicles.
- ✚ Manufacturing simulating test to check the performance of material reduces the process scraps.
- ✚ Coining - sheared edges induces the compressive stress thereby extending the life by delaying the crack initiation.
- ✚ Material selection is critical in product and process design.
- ✚ Design to be balanced for aesthetic as well as function.
- ✚ Design to be balanced for aesthetic as well as function.

## Webinar Outcome

- ✚ Students got the latest knowledge and what is in the current industry trends and practices.
- ✚ Students are exposed to various terms and terminologies in industry practice.
- ✚ Direct Interaction between students and Industry expert.
- ✚ Current problems and solutions, how the industry overcomes the hurdles.
- ✚ Helps to understand what the industry expects from the future graduates so that they can improvise
- ✚ Challenges faced by the industry.
- ✚ Industry and academia interface increases.
- ✚ Practical knowledge and their skill sets.

## Students Suggestion

- To conduct the workshop more on the current challenges faced by the automotive industry
- To arrange industrial visits to the R&D labs in any industry



The webinar was coordinated by Dr.L.Prabhu HOD Mechanical Engg. Department and Mr.S.Ashokkumar & Mr.A.Elanthirayan, Assistant Professor (Gr-II)/Mech/AVIT



**DEPARTEMNT OF MECHANICAL ENGINEERING**

**ONE DAY SEMINAR ON “DESIGN AND MANUFACTURING CHALLENGES OF HIGH STRENGTH STEEL IN AUTOMOTIVE LIGHT WEIGHTING”**

**RESOURCE PERSON: Mr. CHARLES MUNIRATHNAM, SENIOR MANAGER, WHEELS INDIA LIMITED, CHENNAI.**

**PARTICIPANTS NAME LIST**

**DATE: 30.5.2022**

SL.NO	REG. NUMBER	NAME OF THE STUDENT	YEAR/SEM/SEC
1	3441875502	AMARJITH P K	IV/VIII/A
2	3441875504	MAHESH P	IV/VIII/A
3	3441875506	NAJEEM JAMAL	IV/VIII/A
4	3441953510	SREERAG M V	IV/VIII/A
5	3441953512	KOLLIMARLA NAGASAI	IV/VIII/A
6	3441953513	RUSSEL MOHAMMED	IV/VIII/A
7	3441953515	MUZAMMIL KAZIM	IV/VIII/A
8	3442055505	BHARATH CHANDRAN	IV/VIII/A
9	3442157504	ADARSH K P	IV/VIII/A
10	3442157509	AHMAD ABOOBACKER	IV/VIII/A
11	3442157510	AJMAL K.A	IV/VIII/A
12	3442157512	AKHIL VISHNU B S	IV/VIII/A
13	3442157514	AKSHAY PRADEEP V	IV/VIII/A
14	3442157517	AMALKRISHNA J D	IV/VIII/A
15	3442157519	AMITH K	IV/VIII/A
16	3442157520	ARJUN S KUMAR	IV/VIII/A
17	3442157522	ASISH UNNIKRISHNAN	IV/VIII/A
18	3442157531	GAUTHAM SREEDHAR P	IV/VIII/A
19	3442157539	M MUKHIL MURALI	IV/VIII/A
20	3442157540	MAHIN IBRAHIM	IV/VIII/A
21	3442157544	MUHAMMED AZAD C A	IV/VIII/A
22	3442157545	MUHAMMED SINAN A	IV/VIII/A
23	3442157547	PRAJITH SREEKUMAR	IV/VIII/A
24	3442157552	RISHIK CHANDRAN	IV/VIII/A
25	3442157558	SANJAY K P	IV/VIII/A
26	3442157561	SHINAS AHAMMED	IV/VIII/A
27	3442157563	SIVA K	IV/VIII/A
28	3441920502	KARTHICK RAJA M	IV/VIII/B
29	3441920503	KUMAR D	IV/VIII/B
30	3441953501	AKHIL V SUKU	IV/VIII/B
31	3441953505	MOHAMED AJMAL	IV/VIII/B
32	3441953509	SAKTHIVEL G	IV/VIII/B
33	3442055509	NAVEEN KUMAR B	IV/VIII/B
34	3442055516	SHUHAIB V K P	IV/VIII/B
35	3442055517	ABHISHEK SHAJI	IV/VIII/B

36	3442157502	AADILSHA JABBAR	IV/VIII/B
37	3442157516	AKSHITH RAJ M D	IV/VIII/B
38	3442157521	ASHLIN ANTONY	IV/VIII/B
39	3442157523	ASWIN B C	IV/VIII/B
40	3442157527	BINSON MATHEW	IV/VIII/B
41	3442157530	EGGEN P T	IV/VIII/B
42	3442157533	HARIKRISHNAN U	IV/VIII/B
43	3442157534	HARISANKAR A R	IV/VIII/B
44	3442157536	IKHLAS ILMUDHEEN	IV/VIII/B
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51	3442157560	SHAHIM SHAMNAD	IV/VIII/B
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62	3442010506	CHANDAN KUMAR	II/IV
63	3442010512	RANJAN KUMAR MANDAL	II/IV
64	3442010518	VIGNESH R	II/IV
65	4022110505	D.GURU MUHILAN	I/II/M.E
66	4022110501	AKIL ASOKAN	I/II/M.E
67	4022110512	SUDARSAN.R	I/II/M.E





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**ONE DAY SEMINAR ON “DESIGN AND MANUFACTURING CHALLENGES OF HIGH STRENGTH STEEL IN AUTOMOTIVE LIGHT WEIGHTING”**

**RESOURCE PERSON: Mr. CHARLES MUNIRATHNAM, SENIOR MANAGER, WHEELS INDIA LIMITED, CHENNAI.**

**FEEDBACK FROM PARTICIPANTS**

**DATE: 30.5.2022**

Timestamp	Email Address	STUDENT NAME	REGISTER NUMBER	DEGREE/ DEPT / YEAR / SEM /SEC	LEARNING VALUE FROM THE SEMINAR	THE SESSION WAS VERY HELPFUL TO UNDERSTAND THE CONCEPTS CLEARLY	OVER ALL EXPERIENCE ON PROGRAM WAS HELPFUL IN KNOWLEDGE & SKILL ENHANCEMENT
5-30-2022 11:39:47	amarjithpk220@gmail.com	Amarjith pk	3441875502	B.E/MECH/I V/VIII/ A	4	4	4
5-30-2022 11:39:53	bharathachu99@gmail.com	Bharath Chandran	3442055505	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 11:40:03	karthikkarthik44185@gmail.com	M.karthik	3441810506	B.E/MECH/I V/VIII/ A	5	5	5
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5-30-2022 11:41:08	diazkbiju153@gmail.com	DIAZ K BIJU	3442155502	B.E/MECH/III /VI	5	5	5
5-30-2022 11:41:15	j.udhaykumar2001@gmail.com	J UDHAYAKUMAR	3442020504	B.E/MECH/III /VI	5	5	5
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5-30-2022 11:43:06	lmadhanraj751@gmail.co m	MADHANRAJ L	3442120506	B.E/MECH/II/ IV	4	5	4
5-30-2022 11:43:07	akshayvpvattukulam@gm ail.com	AKSHAY PRADEEP V	3442157514	B.E/MECH/I V/VIII/ A	5	5	5
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5-30-2022 11:43:10	ajmalaju7975@gmail.com	Mohamed Ajmal	3441953505	B.E/MECH/I V/VIII/ B	5	5	5
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5-30-2022 11:43:45	sivakollakathsvk@gmail.c om	Siva.k	3442157563	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 11:43:49	ranjankmandal0@gmail.c om	Ranjan kumar mandal	3442010512	B.E/MECH/III/ IV	4	5	4
5-30-2022 11:43:59	shajiabhishek60@gmail.c om	Abhishek shaji	3442055517	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 11:43:59	shahimshamnad111@gm ail.com	Shahim Shamnad	3442157560	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022	eggenpt2@gmail.com	Eggen pt	3442157530	B.E/MECH/I	3	4	4

11:44:02				V/VIII/ B			
5-30-2022 11:44:20	sinansalam2@gmail.com	Muhammed Sinan A	3442157545	B.E/MECH/I V/VIII/ A	4	5	5
5-30-2022 11:44:20	amalkrishnajd390@gmail.com	AMALKRISHN A JD	3442157517	B.E/MECH/I V/VIII/ A	4	4	5
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5-30-2022 11:45:49	mahesh996163@gmail.com	Mahesh p	3441875504	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 11:46:04	asishunnikrishnan2000@gmail.com	Asish Unnikrishnan	3442157522	B.E/MECH/I V/VIII/ A	3	4	3
5-30-2022 11:47:18	vels6344@gmail.com	G. Sakthivel	3441953509	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 11:47:59	postboxrg13@gmail.com	Roshan Gowtham R	3441953508	B.E/MECH/I V/VIII/ B	3	3	3
5-30-2022 11:48:09	selvamsriram08112000@gmail.com	M. Sriram	3442120515	B.E/MECH/II/ IV	3	3	2
5-30-2022 11:48:39	thangapandiyanova@gmail.com	Thangapandiy an A	3441920505	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 11:49:15	sreebasreerag@gmail.com	Sreerag M V	34419534510	B.E/MECH/I V/VIII/ A	5	4	5
5-30-2022 11:49:21	naveenkumar35519@gmail.com	B.Naveenkumar	3442055509	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 11:50:08	gokulg0084@gmail.com	G. NAVEEN KUMAR	3441810509	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 11:50:27	rahulgopi7498@gmail.com	RAHUL GOPI	3442157549	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 11:50:54	akhilvsuku998@gmail.com	AKHIL V SUKU	3441953501	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 11:51:40	kaathu8@gmail.com	KARTHIK NV	3442055508	B.E/MECH/I V/VIII/ B	4	4	4
5-30-2022 11:51:45	jobmathew90@gmail.com	Job k sam Mathew	3442157537	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 11:53:20	athulsajeev992@gmail.com	Athul Sajeev	3442157524	B.E/MECH/I V/VIII/ B	4	4	4
5-30-2022 11:58:51	sreegautham129@gmail.com	GAUTHAM SREEDHAR P	3442157531	B.E/MECH/I V/VIII/ A	4	5	4
5-30-2022 12:07:50	arasus9224@gmail.com	Ponnarasu. S	3442010511	B.E/MECH/II/ IV	5	5	5
5-30-2022 12:13:38	bthala821@gmail.com	Balaji. P	3442120502	B.E/MECH/II/ IV	5	5	5
5-30-2022 12:13:39	ashvith97@gmail.com	Kotian Ashvith	4022110502	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 12:14:37	marshelthomas3233@gmail.com	Marshel Thomasville	3442056501	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 12:14:40	pradhyoth.y.s@outlook.com	Pradhyoth y s	4022110509	B.E/MECH/I V/VIII/ A	4	4	4
5-30-2022 12:14:54	vijayakumarsmart1218@gmail.com	VIJAYAKUMA R.A	3442120522	B.E/MECH/II/ IV	5	5	5
5-30-2022 12:16:55	aswinsahadevan45@gmail.com	Aswin sahadevan	3442055512	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 12:17:09	hrishikeshnr261@gmail.com	Hrishikesh n r	3442055513	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 12:23:07	bijithbabukeloth@gmail.com	Bijith Babu k	3442157526	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 12:26:39	bsugumar18@gmail.com	B.SUGUMAR	3442120516	B.E/MECH/II/ IV	5	5	5
5-30-2022 12:31:45	dilshaddillu1999@gmail.com	DILSHAD JALEEL P	3442157528	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 12:35:19	nitinps008@gmail.com	NITIN PS	3442157546	B.E/MECH/I V/VIII/ B	4	4	4

5-30-2022 12:42:30	bkmth12345@gmail.com	Brajesh kumar	3441910512	B.E/MECH/III /VI	1	1	2
5-30-2022 12:44:36	athithyakumarts@gmail.com	ATHITHYA KUMAR TS	3562055501	B.E/AUTO/IV /VIII	5	5	5
5-30-2022 12:53:04	akashkumarbihar2002@gmail.com	AKASH KUMAR	3442010504	B.E/MECH/II/ IV	4	3	4
5-30-2022 14:13:16	manit6164@gmail.com	gokul	3442120504	B.E/MECH/II/ IV	4	5	5
5-30-2022 14:22:22	krishnansanjay10@gmail.com	SANJAYKRIS HNAN K	3442120511	B.E/MECH/II/ IV	4	4	5
5-30-2022 14:41:21	abufiraz3@gmail.com	Ahmad aboobacker	3442157509	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 15:32:52	selvarasansettu@gmail.com	Selvarasan	34410538	B.E/MECH/II/ IV	5	5	5
5-30-2022 15:42:59	soorajfribze@gmail.com	SOORAJ S L	3441875509	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 16:06:54	balajivpm113@gmail.com	BALAJI A	3442120501	B.E/MECH/II/ IV	5	4	5
5-30-2022 16:21:39	noeljoseph111@gmail.com	Noel c joseph	3441875507	B.E/MECH/I V/VIII/ A	5	5	5
5-30-2022 17:01:39	harimanakad1001@gmail.com	Harikrishnan A	3441953503	B.E/MECH/I V/VIII/ B	5	5	5
5-30-2022 17:09:03	marleyraghul@gmail.com	LOKESH.R	3441810507	B.E/MECH/I V/VIII/ A	3	3	4