



Kammavari Sangham (R) 1952

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**K. S. SCHOOL OF ENGINEERING AND MANAGEMENT**

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[www.kssem.edu.in](http://www.kssem.edu.in)

**DEPARTMENT OF MECHANICAL ENGINEERING**

## **Report on Two-day's Workshop on 'Creativity & Innovation for Engineers' (CIE-2022) on 10<sup>th</sup> & 11<sup>th</sup> October 2022**

**Type of activity:** Workshop for Faculty & Students

**Date/duration of activity:** 10/10/2022 & 11/10/2022

**Venue:** Aryabatta Seminar Hall

**Number of participants:** 30+ 69

**Facilitator/Resource Person:** Pavan Kumar Arasappa

[pavankumar@connect.hku.hk](mailto:pavankumar@connect.hku.hk)

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### **1 Overview:**

Creativity is neither innate nor limited to those considered talented. Research shows that scarcity and desperation often lead to innovation that can surprise us. We look at several innovations around us day to day. A street vendor who uses a plastic bottle with holes as a sprinkler for the flower he sells, a friend who used his mobile phone as a paperweight, and a consumer electronics company that removed the headphone jack and caused ripples in an industry have one thing in common. They did something with the resources in hand or the environment in which they were used. They were examples of creativity "Inside the Box". The street vendor didn't need a sprinkler; he just needed to keep the flowers fresh. The friend didn't need a paperweight; they just needed to keep the papers from flying. They merely worked within a closed world defined by constraints.

If a creative idea surpasses contemplation and finds practical application in real life, its innovation. What we call in India as JUGAAD is an approach to problem-solving with limited resources in an innovative way. It is just a subset of creative problem-solving inside the box. The thinking way or methodology behind Jugaad and other creativity templates can be easily learnt and that's the purpose of this workshop.

## 2 Target Group

Faculty Members from various departments, 7<sup>th</sup> Sem Students from Mechanical & Civil Engineering

## 3 WORKSHOP OBJECTIVES:

To teach participants several systematic creative problem-solving methodologies that are backed by scientific research and complement the tools acquired in engineering. This workshop will focus on new product ideation.

The workshop offers participants the opportunity to learn how to solve problems, identify opportunities, and generate those elusive ideas that potentially generate benefits.

## 4 WORKSHOP OUTLINE

*(Each session is 3 hours of interactive learning with classroom exercises)*

### **Day 1 : Introduction to the principle of closed world and templates**

Defining creative solutions. Fixedness, its advantages and disadvantages. Conventional approaches to the study of creativity. Value of creativity in engineering. Difference between creativity, innovation and Jugaad. Defining the closed world. Templates that can be applied to think creatively. How to manipulate components inside the box. Subtraction (with replacement) and multiplication template.

### **Day 2 : Division, Attribute Dependency, Task-unification, and Contradiction**

Concept, precautions, examples, and exercises for each template. Well-defined problems for participants to work on. Contradiction and its application. Learning and applying attribute dependency template in a classroom exercise. Discussion about final-year projects



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Accredited by NAAC

## Department of Mechanical Engineering

organising  
Two day workshop  
on

# Creativity & Innovation for Engineers



Resource Person:

**Mr. Pavan Kumar Arasappa**

Management Consultant (Intern) , MLC Asia Pacific Limited  
&  
Alumni of KSSEM - Mech

Date:

**10th & 11th October, 2022**

Venue:

**Aryabhata seminar hall**

Patrons:

**Dr. Balaji. B**

**Prof. & HOD**

**Mechanical Engineering**

**Dr. K. Rama Narasimha**

**Principal/Director**

**KSSEM**

**Dr. K. V. A. Balaji**

**CEO**

**KSGI**



**K.S. SCHOOL OF ENGINEERING AND MANAGEMENT, BENGALURU-560109**  
**DEPARTMENT OF MECHANICAL ENGINEERING**

**Two-day's Workshop on 'Creativity & Innovation for Engineers'**

**Day 1-10<sup>th</sup> October 2022**

9.00am	Welcome Guest and Invocation song
9.05am	Welcome Address & Workshop Overview -Dr. Balaji B, Prof & Head, ME Dept.
9.10am	Lighting the Lamp
9.15am	Address by our CEO –Dr. K V A Balaji
9.20am	Address by our Principal/ Director –Dr. K Ramanarasimha
9.25am	Resource Person introduction- Ms. Rajalakshmi,7 <sup>th</sup> Sem ME
9.25am	Address by Resource Person-Mr. Pavan Kumar A
9.30am	Vote of Thanks –Dr. P N Jyothi, Prof. ME Dept.
9.35am	Session-1 Begins
11.30am	Tea Break
11.40am	Session-1 Resumes
12.30pm	Session-1 Ends

**Day 2-11<sup>th</sup> October 2022**

9.00am	Session-2 Begins
11.30am	Tea Break
11.40am	Session-2 Resumes
12.15pm	Session-2 Ends
12.20pm	Valedictory & Certificate Distribution





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**#15, Mallasandra, Near Vajarahalli, Off Kanakapura Road, Bengaluru - 560109**

## *Certificate of Participation*

*This is to certify that*

*Dr. P N JYOTHI,*

*Department of Mechanical Engineering*

*has participated in two days workshop on "Creativity and Innovation for Engineers" organized by the Department of Mechanical Engineering, KSSEM from 10/10/2022 to 11/10/2022.*

**Program Coordinator**  
Dr. P N Jyothi

**Head of the Department**  
Dr. B. Balaji

**Principal / Director**  
Dr. K. Rama Narasimha





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## *Certificate of Participation*

*This is to certify that*

*Mr. Umesh Kumar Singh ,*

*Department of Civil Engineering*

*has participated in two days workshop on "Creativity and Innovation for Engineers" organized by the Department of Mechanical Engineering, KSSEM from 10/10/2022 to 11/10/2022.*

**Program Coordinator**  
Dr. P N Jyothi

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## *Certificate of Participation*

*This is to certify that*

*Mrs. Rupa Chatterjee Das ,*

*Department of Master of Business Administration*

*has participated in two days workshop on "Creativity and Innovation for Engineers" organized by the Department of Mechanical Engineering, KSSEM from 10/10/2022 to 11/10/2022.*

**Program Coordinator**  
Dr. P N Jyothi

**Head of the Department**  
Dr. B. Balaji

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## *Certificate of Participation*

*This is to certify that*

*Ms RAJALAKSHMI VEERESH ,*

*Department of Mechanical Engineering*

*has participated in two days workshop on "Creativity and Innovation for Engineers" organized by the Department of Mechanical Engineering, KSSEM from 10/10/2022 to 11/10/2022.*

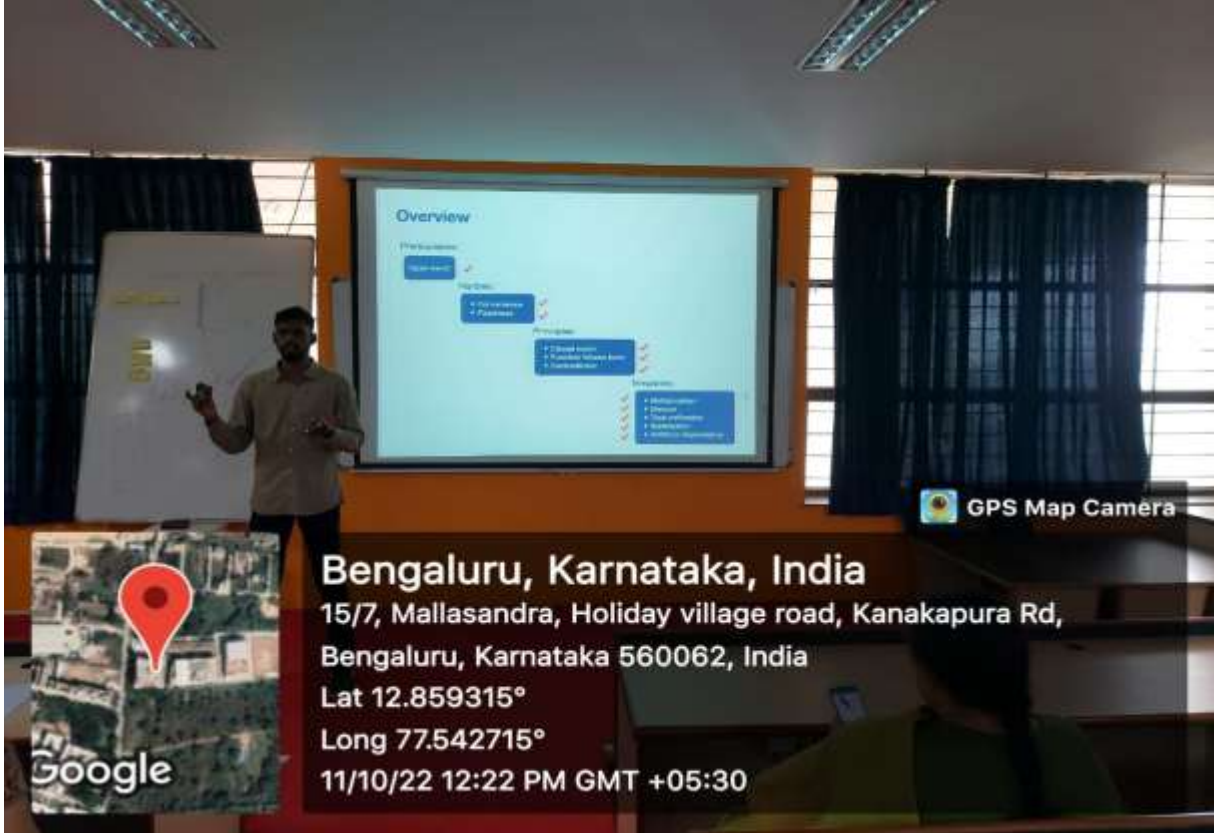
**Program Coordinator**  
Dr. P N Jyothi

**Head of the Department**  
Dr. B. Balaji

**Principal / Director**  
Dr. K. Rama Narasimha











GPS Map Camera



**Bengaluru, Karnataka, India**  
15/7, Mallasandra, Holiday village road, Kanakapura Rd,  
Bengaluru, Karnataka 560062, India  
Lat 12.859332°  
Long 77.542763°  
11/10/22 11:28 AM GMT +05:30



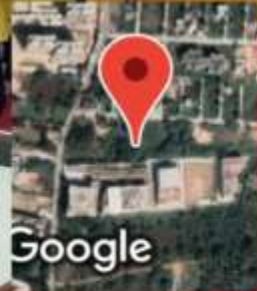
GPS Map Camera



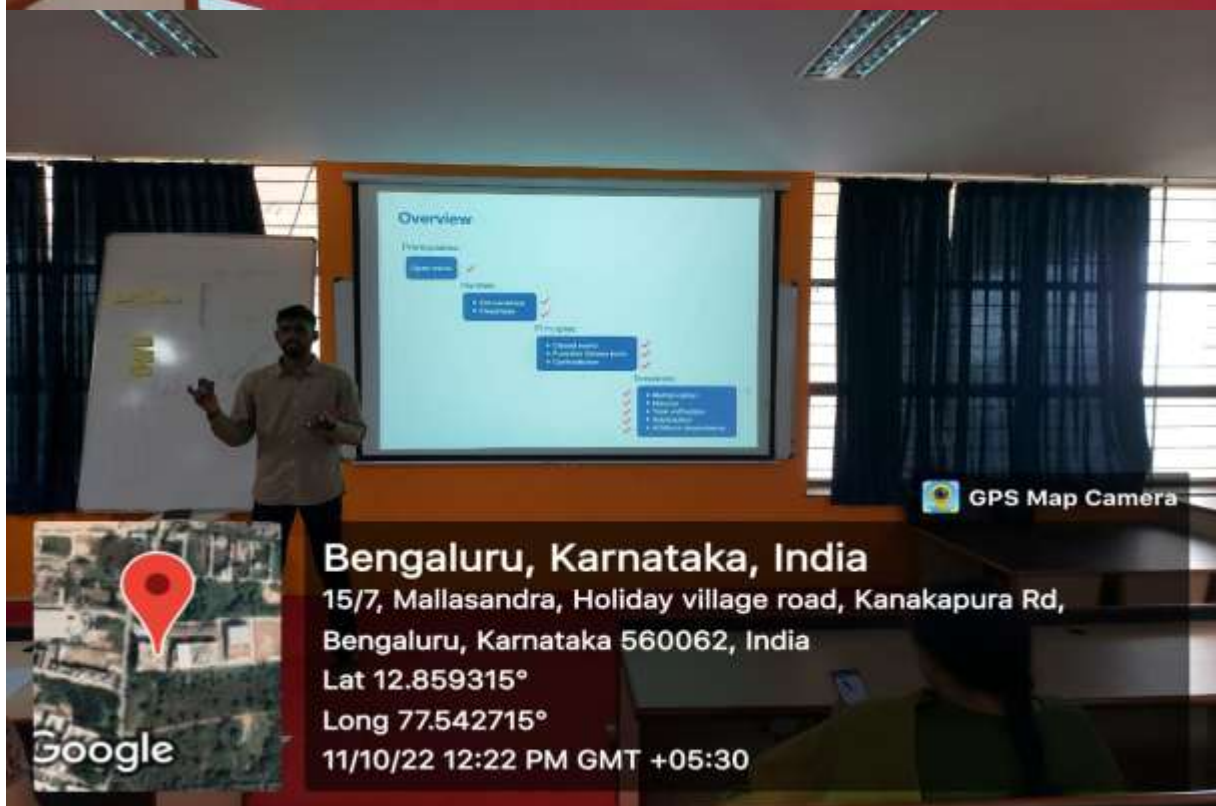
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VG6V+7F5, Bengaluru, Karnataka 560062, India  
Lat 12.860157°  
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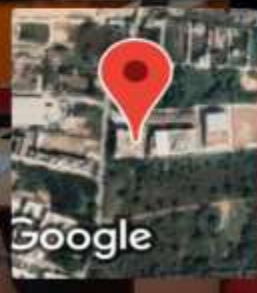
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GPS Map Camera



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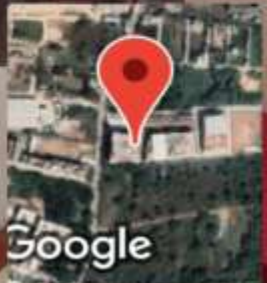
**Bengaluru, Karnataka, India**

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**Bengaluru, Karnataka, India**

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11/10/22 11:28 AM GMT +05:30





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Program Coordinator

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## K S SCHOOL OF ENGINEERING AND MANAGEMENT DEPARTMENT OF MECHANICAL ENGINEERING

TWO DAYS WORKSHOP ON CREATIVITY AND INNOVATION FOR ENGINEERS ON 10th & 11th

OCTOBER 2022

### REGISTRATION FORM

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32	1KG19ME015	Prarthi. P	Prarthikola@gmail.com	9353440128	CV	7th	Prarthi. P
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35	1KG19CV005	Harshitha. S	Harshitha566@gmail.com	8296329097	CV	7th	Harshitha. S
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41	1KG20CV001	Bhargav	Bhargavreddy1994@gmail.com	9681632895	CV	7th	Bhargav
42	1KG19CV009	Mamurtha. M	mamurtham@gmail.com	9349647113	CV	7th	Mamurtha. M
43	1KG20CV003	Jayaprasad. Yadav	Jayaprasadyadav@gmail.com	8093985748	CV	7th	Jayaprasad. Yadav





			gmail.COM				
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45	KG18CV019	Suhail L	suhailreddylx@gmail.com	8296125919	Civil	7	L. Suhail
46	KG20CV411	Sadhashiva	Sadhashivaram28@gmail.com	8861286155	Civil	7th	M. Sad
47	KG19CV022	Suhail altaf dave	Suhailaltaf7897@gmail.com	778094550	CV	7th	Suhail
48	KG19CV017	Salman Bashir	salmanbasher12@gmail.com	7780870900	CV	7th	Salman
49	KG19CV024	Umesh K. Singh	umeshkumarsingh17@gmail.com	7461399886	CV	7th	Umesh
50	KG20CV415	V. Prudh. M.	vprudhloky02@gmail.com	7892818113	CV	7th	V. Prudh
51	KG20CV408	Praywal. L. V	praywal6676@gmail.com	8695083870	CV	7th	Praywal
52	KG19CV022	Suresh N. P	sureshpnr@gmail.com	7349728961	CV	7th	Suresh
53	KG19CV021	Skanda. N	skanda30m@gmail.com	8992377103	CV	7th	Skanda
54	KG19CV022	Bharath S.	bharathkadam08@gmail.com	9880565176	CV	7th	Bharath
55	KG19ME019	Srinivas. G	srinivas.g@gmail.com	9788280152	ME	7th	Srinivas
56	KG19CV014	P. Vijay	vijayyadav2451@gmail.com	6360597200	CV	7th	P. Vijay
57	KG20CV407	LAVEN KUMAR	lavennar@gmail.com	9790080230	CV	7th	LAVEN
58	KG19ME018	Abhinav. D. P	abhinav6537@gmail.com	9731044505	ME	7th	Abhinav
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60	KG19ME011	Lokesh. A. B	laidu011@gmail.com	7975984230	M.E	7th	Lokesh
61	KG19ME010	Chethan A. N	chethan.an12@gmail.com	9986623908	M.E	7th	Chethan
62	KG19ME012	Karthik. K	karthika.ku39@gmail.com	9916409485	M.E	7th	Karthik
63	KG19CV004	SRINIVAS. H	Srinivash963@gmail.com	9632174525	CV	7th	SRINIVAS
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Program Coordinator

Head of the Department  
 Professor & Head  
 Department Of Mechanical Engineering  
 K.S. Group Of Institutions  
 K.S. School Of Engineering & Management  
 Bangalore-560 109



Ramesh Chandra  
Sri 2



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OCTOBER 2022  
ATTENDANCE SHEET

Sl No	USN	NAME	BRANCH	SEMESTER	SIGNATURE
					10/10/2022
1	1KG19ME008	Harish.k	M.E	7th	
2	1KG19ME005	chetan.k	M.E	7th	chetan.k
3	1KG20ME006	Ranav	M.E	5th	Ranav
4	1KG20MG408	Shree K. Laksh.V.	M.E	7th	Shree K. Laksh.V.
5	1KG19ME017	Rajalakeshmi Veeresh	ME	7th	Rajalakeshmi Veeresh
6	1KG19ME014	Moksha Vardhan MJ	ME	7th	Moksha Vardhan MJ
7	1KG19ME018	Sharanan NP	ME	7th	Sharanan NP
8	1KG19ME011	Lokesh.A.	ME	7th	Lokesh.A.
9	1KG19ME020	Vineel Raghava.	ME	7th	Vineel Raghava.
10	1KG19ME019	Sunith.G.	ME	7th	Sunith.G.
11	1KG19CV009	Manumtha.M	CV	7th	Manumtha.M
12	1KG20CV413	Shwetha.M.A	CV	7th	Shwetha.M.A
13	1KG20CV402	JAYAPRASANNA YADAV.K	CV	7th	JAYAPRASANNA YADAV.K
14	1KG19CV029	Umesh Kumar Singh	CV	7th	Umesh Kumar Singh
15	1KG19CV011	Guruprasanthan M	CV	7th	Guruprasanthan M
16	1KG20CV408	Rajeev.L.V	CV	7th	Rajeev.L.V
17	1KG20CV407	NAVEEN kumar S	CV	7th	NAVEEN kumar S
18	1KG19CV023	Suneel N Parde	CV	7th	Suneel N Parde
19	1KG20CV415	Vinoth.M	CV	7th	Vinoth.M
20	1KG19CV019	Siddanna.Gouda	CV	7th	Siddanna.Gouda
21	1KG19CV015	preethi.p	CV	7th	preethi.p
22	1KG20CV401	BHARAV.M	CV	7th	BHARAV.M
23	1KG20CV404	KISHORE.S	CV	7th	KISHORE.S
24	1KG19CV006	KEERTHANA.	CV	7th	KEERTHANA.
25	1KG19CV005	HARSHITHA.	CV	7th	HARSHITHA.
26	1KG20CV406	MONISHA.R.P	CV	7th	MONISHA.R.P
27	1KG20CV410	RANJITHA.P.M.	CV	7th	RANJITHA.P.M.
28	1KG20CV005	Nida Manzoor	CV	4th 5th	Nida Manzoor
29	1KG20CV003	Chandan.K	CV	5th	Chandan.K
30	1KG19CV013	Nishchitha.N	CV	7th	Nishchitha.N
31	1KG20CV414	Srinidhi G Joshi	CV	7th	Srinidhi G Joshi
32	1KG19CV014	P. Vijay	CV	7th	P. Vijay
33	1KG21ME110	Mohan Krishna V	ME	5th	Mohan Krishna V
34	1KG21ME102	Darshan N	ME	5th	Darshan N
35	1KG21ME103	Darshan S	ME	5th	Darshan S
36	1KG21ME111	Paran G	ME	5th	Paran G
37	1KG20ME002	Jahnu	ME	5th	Jahnu
38	1KG20ME007	Prathim B R	ME	5th	Prathim B R
39	1KG21ME101	Chandru	ME	5th	Chandru
40	1KG20ME003	M.Vinay.	ME	5th	M.Vinay.





K.S.G.I

41	1KG21ME401	Mallikarjun. B. Dhal	M.E	5 <sup>th</sup>	<i>[Signature]</i>
42	1KG21ME400	BHARATH KUMAR.P.	M.E	5 <sup>th</sup>	<i>[Signature]</i>
43	1KG21ME406	Mahendra.S	M.E	5 <sup>th</sup>	<i>[Signature]</i>
44	1KG18CV006	Chethan.M	Civil	7 <sup>th</sup> Sem	M. Chethan
45	1KG20CV008	Sushmitha.U	Civil	5 <sup>th</sup> Sem	Sushmitha.U
46	1KG21CV407	Nanda S.R	Civil	5 <sup>th</sup> Sem	Nanda S.R
47	1KG19CV022	Subail ataf dae	Civil	7 <sup>th</sup> Sem	Subail
48	1KG19CV017	Salman Bashir	Civil	7 <sup>th</sup> Sem	Salman
49	1KG19CV002	Bharath.S. Kadam	CV	7 <sup>th</sup> Sem	<i>[Signature]</i>
50	1KG19CV001	Skanda.N	CV	7 <sup>th</sup> Sem	<i>[Signature]</i>
51	1KG18CV018	R. Ramachandra Gowda	CV	7 <sup>th</sup> Sem	Ramachandra
52	1KG20CV11	Sachshika.M	C.V	7 <sup>th</sup> Sem	Sachshika
53	1KG18CV010	L. Rupas	C.V	7 <sup>th</sup> Sem	L. Rupas
54	1KG19ME406	RAKSHITH. B	M.E	7 <sup>th</sup> Sem	<i>[Signature]</i>
55	1KG20ME401	Chethan A N	M.E	7 <sup>th</sup> Sem	<i>[Signature]</i>
56	1KG20ME403	Karthik.C	M.E	7 <sup>th</sup> Sem	<i>[Signature]</i>
57	1KG21ME413	Vitresh.S	M.E	7 <sup>th</sup> Sem	Vitresh.S
58	1KG21ME412	Prasanna.S	M.E	5 <sup>th</sup> Sem	Prasanna.S
59	1KG21ME404	Harsha.L	M.E	5 <sup>th</sup> Sem	<i>[Signature]</i>
60	1KG19ME006	Gagan.G.R	M.E	7 <sup>th</sup> Sem	<i>[Signature]</i>
61	1KG19ME011	Lokesh.A-B	M.E	7 <sup>th</sup> Sem	<i>[Signature]</i>
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*[Signature]*  
Program Coordinator

*[Signature]*  
Head of the Department  
Professor & Head  
Department Of Mechanical Engineering  
K.S. Group Of Institutions  
K.S. School Of Engineering & Management  
Bangalore-560 109



ONLY FOR STUDENTS



**K S SCHOOL OF ENGINEERING AND MANAGEMENT**

DEPARTMENT OF MECHANICAL ENGINEERING

**KSSEM**

TWO DAYS WORKSHOP ON CREATIVITY AND INNOVATION FOR ENGINEERS ON 10th & 11th

OCTOBER 2022

ATTENDANCE SHEET

Sl No	USN	NAME	BRANCH	SEMESTER	SIGNATURE
					11/10/2022
1	1KG20ME408	SHREE THILAK. K.V.	M.E	7 <sup>th</sup>	Shree Thilak
2	1KG19ME011	LOKESH. A. B	M.E	7 <sup>th</sup>	Lokesh
3	1KG19ME016	TRADEEP. A	M.E	7 <sup>th</sup>	Tradeep
4	1KG19ME020	Venkat Raghaven v.	M.E	7 <sup>th</sup>	Venkat
5	1KG19ME008	Harish. K	M.E	7 <sup>th</sup>	Harish
6	1KG19ME018	Shravan	M.E	7 <sup>th</sup>	Shravan
7	1KG19ME005	Chethan. K	M.E	7 <sup>th</sup>	Chethan
8	1KG19ME002	Anith. A.S.	ME	7 <sup>th</sup>	Anith
9	1KG19CV015	Preethi. P	CV	7 <sup>th</sup>	Preethi
10	1KG19CV019	Siddanna gonda	CV	7 <sup>th</sup>	Siddanna
11	1KG20CV403	Karthick Naidu. A	CV	7 <sup>th</sup>	Karthick
12	1KG19CV005	Hansmitha's	CV	7 <sup>th</sup>	Hansmitha
13	1KG19CV006	Keerthana L	CV	7 <sup>th</sup>	Keerthana
14	1KG20CV401	Bhargav. M	CV	7 <sup>th</sup>	Bhargav
15	1KG20CV404	Kishore. S	CV	7 <sup>th</sup>	Kishore
16	1KG20CV409	Rajula Sai jidhin	CV	7 <sup>th</sup>	Rajula
17	1KG19CV014	P. VIJAY	CV	7 <sup>th</sup>	P. Vijay
18	1KG19CV009	Skanda. N	CV	7 <sup>th</sup>	Skanda
19	1KG19CV002	Barabn	CV	7 <sup>th</sup>	Barabn
20	1KG19CV007	L. Lokesh	CV	7 <sup>th</sup>	L. Lokesh
21	1KG20CV408	Pragwal. L.V	CV	7 <sup>th</sup>	Pragwal
22	1KG19CV024	Vmresh Kumar Singh	CV	7 <sup>th</sup>	Vmresh
23	1KG20CV407	MAVEEN KUMAR	CV	7 <sup>th</sup>	Maveen
24	1KG17CV011	Gurur Prashanth M	CV	7 <sup>th</sup>	Gurur
25	1KG18CV005	Banashree. B	CV	7 <sup>th</sup>	Banashree
26	1KG18CV024	Santhosh kumar D	CV	7 <sup>th</sup>	Santhosh
27	1KG18CV010	Suhas L	CV	7 <sup>th</sup>	Suhas
28	1KG19CV009	Manvitha. M	CV	7 <sup>th</sup>	Manvitha
29	1KG20CV402	Jaya prasad Yadav	CV	7 <sup>th</sup>	Jaya prasad
30	1KG20CV410	Ranjitha. P. M	CV	7 <sup>th</sup>	Ranjitha
31	1KG20CV406	Harisha. R. P	CV	7 <sup>th</sup>	Harisha
32	1KG20CV411	Sadal hir. M	CV	7 <sup>th</sup>	Sadal hir
33	1KG19CV023	Sunel P. N. P	CV	7 <sup>th</sup>	Sunel
34	1KG19ME003	Bhargavi. B. Reddy	ME	7 <sup>th</sup>	Bhargavi
35	1KG21ME406	Mahendras	ME	5 <sup>th</sup>	Mahendras
36	1KG19ME012	M. Davi Teja	ME	7 <sup>th</sup>	M. Davi
37	1KG19ME013	MANU. B	ME	7 <sup>th</sup>	Manu
38	1KG20ME409	T. Reddy prakash	ME	7 <sup>th</sup>	T. Reddy
39	1KG19ME001	A. Dhano Venkat.	ME	7 <sup>th</sup>	A. Dhano
40	1KG19ME007	Georgareddy D.M	ME	7 <sup>th</sup>	Georgareddy



41	IKG21ME403	Darshan S.	ME	5th	<del>_____</del>
42	IKG21ME402	Darshan N	ME	5th	Darshan N
43	IKG20ME007	Prathwin	ME	5th	Prathwin
44	IKG21ME411	Pavan	ME	5th	<del>_____</del>
45	IKG21ME410	Mohan Krishna V	ME	5th	<del>_____</del>
46	IKG21ME409	Mohammed Saquib	ME	5th	Saquib
47	IKG21CV407	Nanda S.R	C.E	5th	Nanda S R
48	IKG19CV022	Subhail Altaf dar	C.V	7th	Subhail
49	IKG19CV017	Salman Bashir	C.V	7th	Salman
50	IKG20ME402	Gayadish N	ME	7th	Gayadish N
51	IKG19ME017	Rajalakhmi Verush	ME	7th	Rajalakhmi
52	IKG19ME014	Moksha Wardhan	ME	7th	Moksha
53	IKG20ME405	Ragavendra K.J	ME	7th	Ragavendra
54	IKG20ME404	Mohik B	ME	7th	Mohik B
55	IKG20ME403	Karthik C	ME	7th	Karthik C
56	IKG19ME004	Pruthviraj Bollineni	ME	7th	Pruthviraj
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