

Department of Chemistry

Report on Invited Talk

Name of the Activity: Invited talk

Title of the event: "Waste to Wealth for Sustainable Materials for Li-ion Battery and Supercapacitor Applications"

Day & Date: 15-10-2025 Wednesday

Time: 11 am -12.30 noon

Mode: Offline

Venue: K N V Sastri Auditorium

Resource Person: Dr. Nagaraju D H

No. of Participants: 111

Brief summary of the activity:

Introduction:

The **Department of Chemistry under Chemistry Forum** organized an insightful invited talk delivered by Dr. Nagaraju D. H. on the topic "*Waste to Wealth for Sustainable Materials for Li-ion Battery and Supercapacitor Applications.*" The session aimed to enlighten students and faculty on innovative approaches to convert waste materials into high-value energy storage materials, addressing both environmental sustainability and advancements in electrochemical technologies. This talk was also organized as part of the department's initiative to promote postgraduate admissions in the institution.

About the Speaker:

Dr. Nagaraju D. H. is a distinguished researcher in the field of materials chemistry, particularly focusing on energy storage systems, nanomaterials, and sustainable material development. His contributions to the development of eco-friendly electrode materials for Li-ion batteries and supercapacitors have been widely recognized.

Summary of the Talk:

Dr. Nagaraju began the session by highlighting the growing demand for efficient and sustainable energy storage technologies in the current era of renewable energy.

He emphasized the importance of recycling and repurposing industrial and agricultural waste to develop value-added materials.

He elaborated on the synthesis of carbon-based and metal oxide-based materials from waste products such as biomass, agricultural residues, and industrial by-products. Through various case studies, Dr. Nagaraju explained how these waste-derived materials exhibit excellent electrochemical properties suitable for Li-ion batteries and supercapacitors.

The talk also covered key aspects such as:

- Green synthesis routes and cost-effective material design
- Structural and morphological characterization of materials
- Performance evaluation of electrode materials in energy storage devices
- Environmental and economic benefits of waste valorization

Dr. Nagaraju shared his research findings, demonstrating the superior performance of waste-derived materials in terms of specific capacitance, stability, and energy density. He encouraged young researchers to explore interdisciplinary approaches for sustainable material development.

Interaction

Session:

The session concluded with an engaging question-and-answer segment, where students and faculty interacted with Dr. Nagaraju regarding research opportunities, fabrication techniques, and future prospects in the field of energy storage devices.

Conclusion:

The invited talk provided valuable insights into sustainable innovation and inspired participants to consider eco-friendly approaches in scientific research. The Department of Chemistry expressed gratitude to Dr. Nagaraju D. H. for sharing his expertise and motivating the academic community.

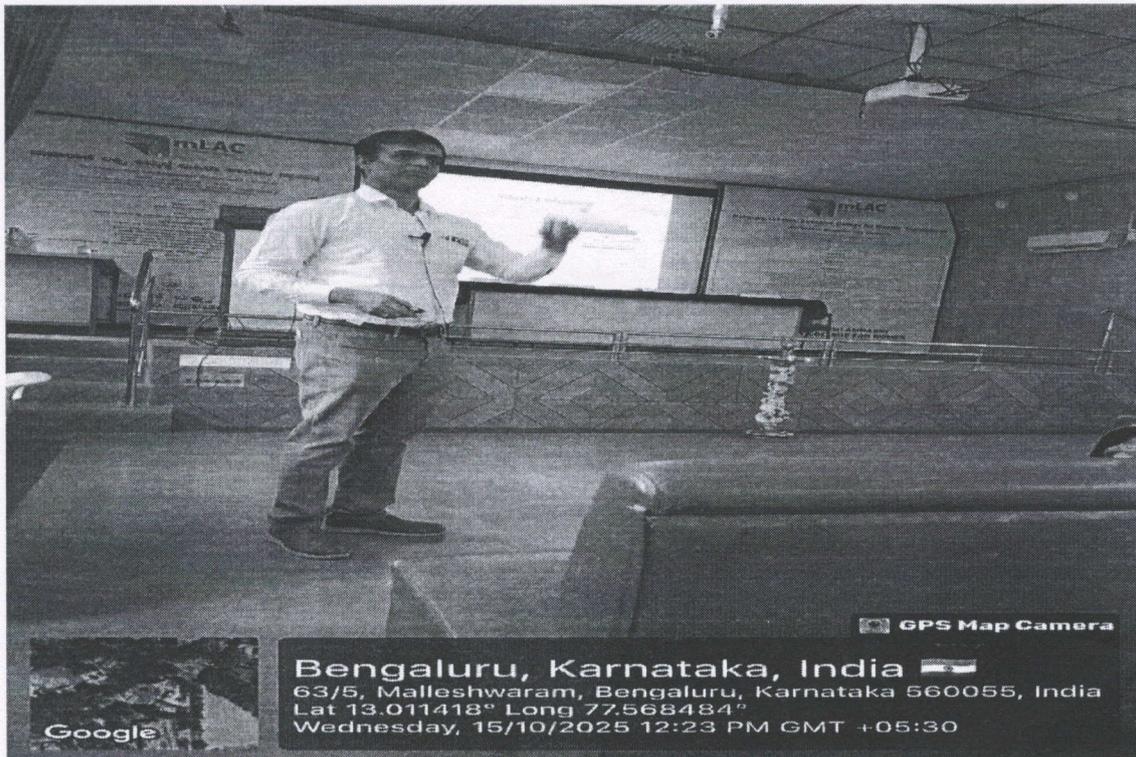
Acknowledgements:

The department extends heartfelt thanks to the organizing committee, faculty members, and students for their participation and support in making the event a success.



Bengaluru, Karnataka, India 
63/5, Malleshwaram, Bengaluru, Karnataka 560055, India
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Wednesday, 15/10/2025 12:46 PM GMT +05:30

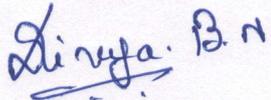
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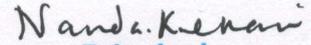
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63/5, Malleshwaram, Bengaluru, Karnataka 560055, India
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Wednesday, 15/10/2025 12:23 PM GMT +05:30

GPS Map Camera


Organising secretary


Head of Department

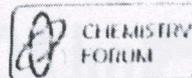
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Principal
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DEPARTMENT OF CHEMISTRY
Invited talk on (15/10/2025@11am)
"Waste of wealth for Sustainable Materials for Li-ion battery and
Supercapacitor Application"

ATTENDENTCE SHEET(B.Sc-I years)

PCM

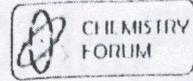
SL. NO.	NAME	Signature
1	AMRUTHA K R	Amrutha K.R
2	HARSHITHA R	Harshitha R
3	JANHAVI K	Janavi K
4	M SHRAVANI	M. Shravani
5	NITHYA S E	Nithya S E
6	PALLAVI M	Pallavi M
7	POOJA Y	Pooja Y
8	RAMYA B N	← ABSENT →
9	SRUSHITI GOPALJAMAKHANDI	Srushiti
10	RAKSHITHA L	Rakshitha L
11	RAMYA M	← ABSENT →
12	KANAKA L P	Kanaka L P
13	THANUSHREE A	← ABSENT →

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ATTENDENTCE SHEET(B.Sc-I years)

CBZ

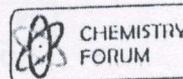
SL. NO.	NAME	Signature
1	ANKITHA S	← ABSENT →
2	CHINMAYEE B	← ABSENT →
3	JAMUNA S	<i>Jamuna S</i>
4	LAKSHMI DEVI B	<i>Lakshmi Devi B</i>
5	NANDINI A	<i>Nandini A</i>
6	S LAVANYA	<i>S. Lavanya</i>
7	SANGEETHA N G	<i>Sangeetha NG</i>
8	SANJANA KAMATH CH	<i>Sanjana Kamath</i>
9	TRUPTHI S	<i>Trupthi S</i>
10	VYSHNAVI SY	<i>Vyshnavi SY</i>
11	YASHASHRI G	← ABSENT →
12	YASHASWINI K J	<i>Yashaswini K.J</i>
13	NAVYA L.	← ABSENT →
14	JAYASHREE M	<i>Jayashree M</i>
15	SUSIMITHA SV	<i>Susmitha SV</i>
16	CHAYA RS	<i>Chaya RS</i>
17	CHAITRA H	← ABSENT →
18	VYSHNAVI GV	← ABSENT →

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ATTENDENTCE SHEET(B.Sc-I years)

CBB

SL. NO.	NAME	Signature
1	ASHAMMA	Ashamma
2	DHANALAKSHMI	← ABSENT →
3	GOPIKA M	Gojika M.
4	KAVYA D	Kavya D.
5	KAVYASHREE K	Kavyashree K.
6	KIRAN D	Kiran D.
7	LAKSHMI B K	Lakshmi B K.
8	MAITHRI N N MURTHY	Maithri N-N Murthy
9	NAYANA G	Nayana G.
10	NEHA G	Neha G.
11	PALLAVI	Pallavi
12	RAMYA N	Ramya N.
13	SHRIDEVI	Shridevi
14	THANUSHIA E P	Thanusha E.P.
15	SINCHANA S	Sinchana S.
16	BHOOMIKA G K	Bhoomika G.K.
17	INCHARA	Inchara.
18	HEMALATHA SEN	Hemalatha.
19	RASHMI G D	Rashmi G.D.
20	SHREE LAKSHMI G	Shreelakshmi G.
21	SHUBHANGI P	Shubhangit.P.
22	AAISHA PARVEEN	Aisha Parveen
23	AMRUTHA L	← ABSENT →
24	MEENAKSHI C	Meenakshi C.
25	AKHILA	← ABSENT →
26	KRISHINA MANJARI	← ABSENT →

Sinaya B.N
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27	LIKITHA R	Likitha.R
28	SRIPRIYA	Sripriya
29	NABILA IFTIYAKAR	
30	Sangeetha.S	Sangeetha.S

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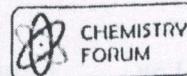
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“Waste of wealth for Sustainable Materials for Li-ion battery and Supercapacitor Application”

ATTENDENTCE SHEET(B.Sc-I years)

CZBT

SL. NO.	NAME	Signature
1	ABHIJNA A	Abijna
2	AMULYA S	Amulya S
3	AMULYA Y	← ABSENT →
4	BEULAH A	Beulah A.
5	CHAITHRA C N	Chaithra C N
6	D SWARNA LAKSHMI	D. Swarna Lakshmi
7	DEEKSHITHA C	Deekshitha C
8	DEEPASRI S	Deepasri S
9	DIVIJA BIJOUR	Divija Bijour
10	FARZANA TAJ	Farzana Taj
11	GAGANASHREE B S	Gaganashree B.S
12	HARSHITHA H P	← ABSENT →
13	HARSHITHA K	Harshitha K
14	HRUTHIVIKAL	Hruthivika L
15	JANANI D	Janani D
16	KEERTHANA K	Keerthana K
17	MANASA K	← ABSENT →
18	MANVITHA Y	Manvitha Y
19	MEGHANA S	Meghana S
20	NAIK DIVYSAHREE LAKSHMI	Divya Sahree
21	NAYANASHREE K	Nayanashree K
22	NEHA V L	Neha V L
23	NETRAVATHI K S	Netravathi K S
24	PREETHI G M	Preethi G M
25	PRIYANKA B N	Priyanka B.N.
26	RASHMI R	Rashmi R
27	RUKSANA BANU M B	Ruksana Banu

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28	SWATHI	Swathi
29	THAKUR SHRAVANI VIKAS	Thakur
30	THANUSHREE M S	
31	VEDASHREE M	Vedashree M
32	MYTHRI D	
33	VIDYALAKSHIMI M	

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1	ANITA	
2	ANITA	
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33	ANITA	

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ATTENDENTCE SHEET(B.Sc-II years)

Combination: CBZ

SL. NO.	NAME	Signature
1	Agnes Josephin M B	← ABSENT →
3	Ananya S	Ananya S
4	ARUNDHATHI L	Arundhati L
6	Chinthakayala Navya	Navya
7	Gouthami N	← ABSENT →
8	Harshitha B G	Harshitha B G
9	Kariyamma	← ABSENT →
10	Mamatha M	← ABSENT →
11	Mohammadi Fathima Zohra	Fathima
12	Monisha S	Monisha S
14	Nagamani	← ABSENT →
15	Neela Prasannakshi R S	← ABSENT →
16	Niharika S	← ABSENT →

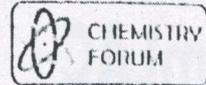
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ATTENDANCE SHEET(B.Sc-II years)

Combination: CBBT

SL. NO.	NAME	Signature
1	Amrutha V	Amrutha V
2 ^{Left}	Chandana N	← ABSENT →
3	Janani C	← ABSENT →
4	Kanchana H S	ABSENT →
5	Kavana K L	Kavana K L
6	Lakshmi S	Lakshmi S
7	Lekhana N	Lekh
8	Madhumitha V	Madhu
9 ^{Left}	Nayana P B	← ABSENT →
10	Prakruthi A	Prakruthi A
11	Prarthana S	Prarthana S
12	Pruthvi R	Pruthvi R
13	Rashmi M	← ABSENT →
14	Sanjana.k	Sanjana.k
15	Shaguftha Nargis	Shaguftha
16 ^{Left}	Shilpa S	← ABSENT →
17	Vedashree P Kambli	Vedashree P Kambli
18	Yashaswini N	Yashaswini N

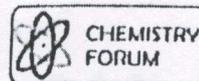
h.g. sprints

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ATTENDENTCE SHEET(B.Sc-II years)

Combination: CZBT

SL. NO.	STUDENT NAME	SIGNATURE
1	ARPITHA A L	Arpitha. A.L
2	B SINDHU	B. Sindhu
3	Devika R	Devika. R
4	Dhanyatha A	Dhanyatha. A
5	Falak Shahzad Sofi	Falak Shahzad Sofi
6	Lakshmi T	Lakshmi. T
7	likitha N	likitha. N
8	Meghana N	Meghana. N.
9	Nidha Mehaboob	Nidha Mehaboob
10	Nishchita M R	Nishchita. m. R
11	Pallavi K M	Pallavi. K. M
12	Prarthana P	Prarthana. P
15	Rajni Dey	Rajni Dey
16	Sandhya Shree G	Sandhya Shree G

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FEEDBACK

Name	Class	Register Number	How would you rate Resource Person knowledge in the subject?	Rate your experience regarding the guest lecture.	Was the topic of the guest lecture useful to your area of study?	Any Suggestions
Likitha N	2nd Bsc CZBT	U18EE24S0260	5	2	Yes	Good
Varsha k	Bsc czbt	U18EE24S0275	5	2	Yes	No
Sinchana C	BSC 2nd year	U18EE24S0310	5	2	Yes	No
Yashaswini N	B.Sc	U18EE24S0293	4	2	Yes	-
Amulya. S	1st BSC	STmlac25102	3	1	Yes	Want to give more and more useful information for the youths
Srushti jamakhndi	First year bsc pcm	STmlac25149	4	2	Yes	It's good
Janani.D	1st Bsc CZBT	Stmlac25105	3	1	Yes	No
Harshitha k	1 year bsc	Stmlac2579	4	2	Yes	Could do better
Hemlatha sen	1st sem. B Sc. CBBT.	STmlac25360	4	2	Yes	No
Deepasri S	1st Bsc CZBT	U18EE25S0231	3	2	Yes	Nothing
Priyanka BN	1st BSC CZBT	STmLAC25103	5	2	Yes	It was interesting
Mohammadi fathima z	2yr bsc 3rd sem cbz	U18EE24S0303	5	2	Yes	Wold have liked to listen about wt career opportunities we can
SUSHMITHA S.V	CBZ	2025UG0683	4	2	Yes	No comments
Vidyashree KP	PG- Organic chemistry	Not given	5	2	Yes	It was a good and helpful session
Rashmi GD	1 sem bsc (CBBT)	STmlac25361	4	2	Yes	No
Farzana Taj	Czbt	STmlac25104	4	1	Yes	Noo
Kavana K L	2nd BSC	U18EE24S0281	5	2	Yes	
Prarthana S	2nd year BSc	U18EE24S0287	4	2	Yes	No
Naik Divyashree lakshr	Bsc (CZBT)	STmlac2589	4	2	Yes	little much explanation about the topic
Preethi G M	1st year BSc CZBT	Stmlac2591	4	2	Yes	Over all seminar was very nice and helpful
Thakur Shravani Vikas	1st year Bsc CZBT	U18EE25S0251	4	2	Yes	Good

Varsha S	BSC		U18EE24S0252		5	2	Yes	It Helps us to improve our knowledge and got new ideas....
Chandana c v	Bsc 2nd year		U18EE24S0247		5	2	Yes	It helps us to improve our knowledge
Keerthana K	Bsc CZBT (1st year)		Stmlac25108		5	2	Yes	Nothing
Rashmi R	BSc		U18EE25S0248		4	2	Yes	Conduct more useful sessions.. will be looking forward to it
Sanjana kamath	1St year bsc cbz		Stmlac 2573		4	2	Yes	It helped me a lot
Sangeetha NG	Bsc		STmlac2575		5	1	No	More interested in bio chemistry than nanoochemistry
Soni Kamath	2nd Bsc			272	5	2	Yes	No
Vrushti J	3rd sem B.sc		U18EE24S0255		4	2	No	No
Keerthana R	3rd sem pcm		U18EE24S048		4	2	Yes	No
Ashamma	1st bsc CBBT		Stmlac2551		4	2	Yes	Good
Shaguftha Nargis	2nd Bsc		U18EE24S0290		3	1	Yes	He required some more time so that he could be able to
Varshitha.S	2nd year		U18EE24S0313		5	1	Yes	No
DEVIKA R	2nd Bsc		U18EE24S0257		4	2	Yes	Nothing
Monisha	2year bsc		U18EE24S0304		5	2	Yes	It was good lecture
Shilpa T	2nd year BSC		U18EE24S0312		5	2	Yes	No
Ananya.S	2year Bsc		U18EE24S0295		5	2	Yes	No
Arundhathi L	2nd sem		U18EE24S0296		5	2	Yes	None
Divija Bijoor	CZBT (BSC)		2025UG0532		5	2	Yes	It was helpful
Sushma HC	Second year Bsc		U18EE24S0315		2	2	Yes	No suggestion
Sophia Jeba Loren .R	Bsc 3rd sem (Czbt)		U18EE24S0337		5	2	Yes	The talk was good and useful
Gaganashree BS CZBT	CZBT		Stmlac2587		3	2	Yes	It can be till more better
Kavya. D	1st year BSc CBBT		STmlac2559		5	2	Yes	It was very nice seminar thanks for arrangingbit
Anushree M	2 bsc		U18EE24S0336		5	2	Yes	Good

Swathi	I year b. sc bio tech	STmlac 2590	4	2	No	It was quiet interesting topic
Sandhya shree.G	BSc 2nd year (CZBT)	U18EE24S0169	4	2	Yes	No
Kiran D	1st year bsc (CBBT)	Stmlac2555	5	2	Yes	No
Kavyashree k	1st year	Stmlac2557	4	2	Yes	Ntg
AAISHA PARVEEN	1st B.Sc. CBBT	2025UG0685	5	2	Yes	The session was very informative. Please organize more lectures connecting chemistry with real-world applications. It would be nice if the presentation slides or summary could be shared with students afterward.
Jayashree M	1st Bsc CBZ	2025UG0690	4	2	Yes	Nothing
Vedashree p kambli	2nd BSC cbbt	U18EE24S0292	4	2	No	No
SRIPRIYA B I	I BSc, CBBT	STmlac25699	5	2	Yes	-
Deekshitha.C	CZBT	STmlac2594	5	2	Yes	No suggestions everything was good
Trupthi	Bsc cbz	Stmlac2576	4	2	Yes	Ntg
Shubhra Karmakar	Bsc CZBT, 3rd SEM	U18EE24S0270	4	2	Yes	More sessions on the applications of chemistry should be conducted
Ananya. S	2year 3sem	U18EE24S0295	4	2	Yes	Good

Diya B-N