



HINDU COLLEGE, GUNTUR

Main Road, Opp. Sri Venkateswara Vignanam Mandir, Guntur-522003

P.M. Prasad, M.Sc., M.Phil. (Ph.D.)

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Principal (FAC)

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DEPARTMENT OF CHEMISTRY SL.NO

Title of the Event : Best Student Award

Date : 16-11-2021 **Time** : 11.00am

Venue : Seminar Hall

Co-ordinator : Dr. T. Uma Maheswara Rao

No. of Staff Members involved : 3

No. of Students Participated : 20

Objective of the Event :

Award Function

Plan and Execution :

Students gathered in the seminar hall and arranged the function. Staff also attended.

Outcome of the Event:

Encouragement of the students.

Suggestions:

Evidences :



Signature of H.O.D



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DEPARTMENT OF CHEMISTRY SL.NO

Participative-C2

Title of the Event : Work shop (Soap Oil preparation)

Date : 11-02-2022 **Time** : 2.00pm

Venue : Chemistry Lab

Co-ordinator : Dr. T. Uma Maheswara Rao

No. of Staff Members involved : 4

No. of Students Participated : 25

Objective of the Event :

The soap oil preparation is aimed to clean articles of clothing, utensils etc. for maintenance of general hygiene by human beings.

Plan and Execution :

Students gathered in the campus on 11-02-2022 at 2.00 pm. We brought chemicals for the preparation. Distilled Water and equipment are arranged.

Outcome of the Event:

The soap oil is prepared easily for the domestic purpose also. Large quantity of soap is prepared with less amount. Students learned how to prepare the soap oil.

Suggestions:

It is easily prepared for domestic purpose. It is very cheap for the preparation.

Evidences :





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DEPARTMENT OF CHEMISTRY SL.NO

Experiential-C2

Title of the Event : National Science Day

Date : 28-02-2022 **Time** : 11.00am

Venue : Seminar Hall

Co-ordinator : Dr. T. Uma Maheswara Rao

No. of Staff Members involved : 8

No. of Students Participated : 35

Objective of the Event :

It is celebrated every year on February, 28 each year to mark the discovery of the Raman effect students comes to seminar hall at 11.00am. staff also comes to the function and delivered about the C.V. RAMAN.

Plan and Execution :

It is celebrated to keep people aware and spread a message about the importance of scientific theories and applications in every life importance of scientific theories.

Outcome of the Event:

Importance of science and what's the recent development of science.

Suggestions:

Evidences :



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DEPARTMENT OF CHEMISTRY SL.NO

Participative-C2

Title of the Event : Current Research Opportunities in Material
Science – A back bone of Modern Teaching.

Date : 06-07-2022 **Time** : 11.00am

Venue : New Seminar Hall

Co-ordinator : Dr. T. Uma Maheswara Rao

No. of Staff Members involved : 5

No. of Students Participated : 50

Objective of the Event :

Material science and engineering drives innovation in both research and Industry in everything from aerospace to medicine.

Plan and Execution :

Outcome of the Event:

In Material Science and engineering will have demonstrated and ability to identify formulate and solve complex engineering problems and applying principles,

Suggestions:

It is good and innovative to the students, what is in present material are used.

Evidences :

HINDU COLLEGE, GUNTUR



Department of Chemistry

INVITATION

GUEST LECTURE

on

**Current Research Opportunities in
Material Sciences – A Backbone of
Modern Technology**

by

Dr. Maram Pardhasaradhi
Associate Professor
Department of Chemistry
SRM University – AP
Amaravathi

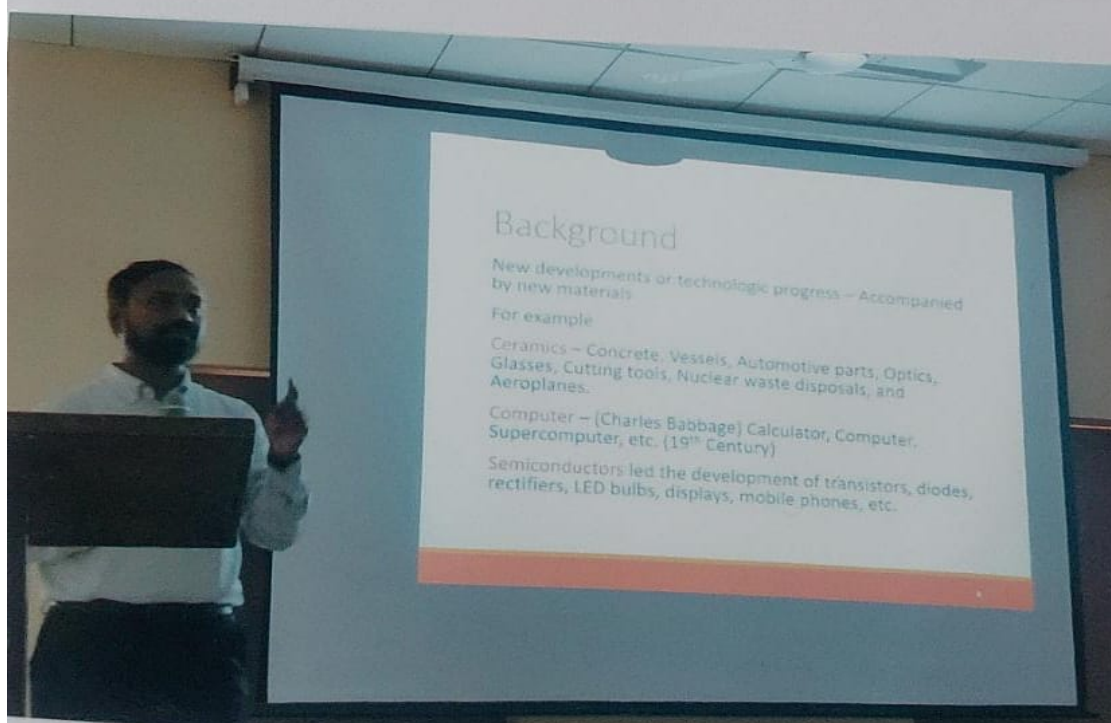
Venue : New Seminar Hall

Date : 6th July, 2022

Time : 11.00 A.M.

Dr. T. UMAMAHESWARA RAO
Department Chemistry

P.M. PRASAD
Principal (FAC)



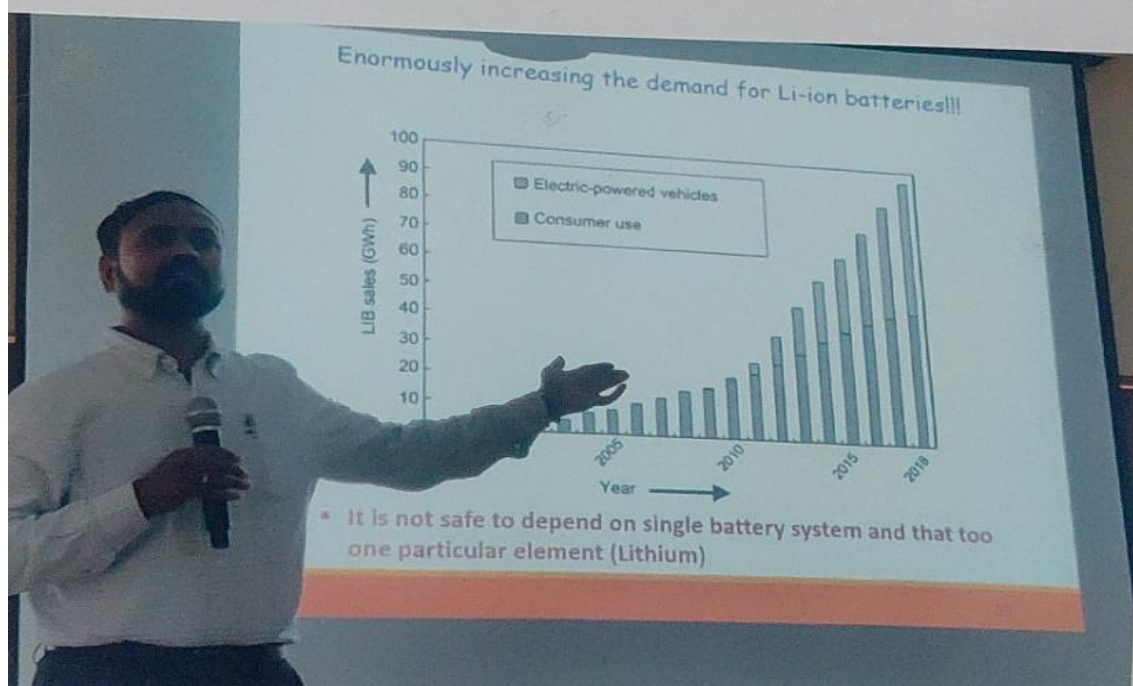
Li / TiS_2 or Li / MoS_2

Diagram illustrating the formation of Lithium dendrites in a battery system. The system consists of an Anode (Metallic Lithium), Electrolyte, and Cathode (Titanium disulfide). The diagram shows the layered structure of TiS_2 with van der Waals gaps. The process involves the intercalation of Lithium ions (Li^+) into the TiS_2 layers during discharge and their removal during charge. The bottom diagram shows the formation of Whiskers/dendrites from Metallic Lithium on the Cathode (TiS_2) in the Electrolyte at 2.2V.

Formation of Lithium dendrites

Labels in the diagrams include: Lithium ion, Anode (Metallic Lithium), Electrolyte, Cathode, Titanium disulfide, TiS_2 layer, van der Waals gap, Li^+ ion, Discharge, Charge, Metallic Lithium, Whiskers/dendrites, $\text{Ti}_{1.025}\text{S}_2$, S, Ti, 2.2V, Cathode: TiS_2 , Electrolyte.

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DEPARTMENT OF CHEMISTRY SL.NO

EXPERIENTIAL-C2

Title of the Event : Aazadika Amrit Mahotsav

(Science and Technology Competitions)

Date : 03-08-2022 **Time** : 2.00 to 5.00 PM

Venue : New Seminar Hall

Co-ordinator : N. Suneetha

No. of Staff Members involved : 3

No. of Students Participated : 35

Objective of the Event :

The competition is to motivate young people to engage with science, to encourage them to work in science and technology. No of scientist increases in this technology, the country will get best position in the world.

Plan and Execution :

By the call of central government the college conducted Aazadika Amrit Mahotsav in the campus. On the behalf of Chemistry Department. We conducted competitions .on Science and Technology.

Outcome of the Event:

Students learned different types of latest technology using in Medicine, Agriculture and Stellates.

Suggestions:

Due to the competitions students got awareness on Science and Technology

Evidences : 2 photos



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DEPARTMENT OF CHEMISTRY SL.NO

Experiential-C2

Title of the Event : Industrial Visit

Date : 20-09-2022 **Time** : 10.00am

Venue : AP Zenco, Vijayawada

Co-ordinator : Dr. T. Uma Maheswara Rao

No. of Staff Members involved : 3

No. of Students Participated : 30

Objective of the Event :

The programme to visit AP ZENCO Chemical industry is designed to train students to acquire knowledge and Practical skills that can make them to be employable.

Plan and Execution :

Students gathered in college campus on 20-09-2022 at 10.00am. We went to the industry by bus. It is 35kms far from the college campus.

Outcome of the Event:

Suggestions:

Evidences :



Signature of H.O.D