

Sri GVG Visalakshi College for Women (Autonomous), Udumalpet.

Affiliated to Bharathiar University

Accredited at A+ Grade by NAAC (Fourth Cycle)

An ISO 9001:2015 Certified Institution

Udumalpet, Tamilnadu.

DEPARTMENT OF PHYSICS

**Industrial visit to CSIR - Central Electro Chemical Research Institute (CECRI),
Karaikudi organised under DBT Star College Scheme.**

2019-2020		
Date	Place of Visit	No. of Beneficiaries
13.09.2019	CSIR- Central Electro Chemical Research Institute, Karaikudi	50 Physics Students

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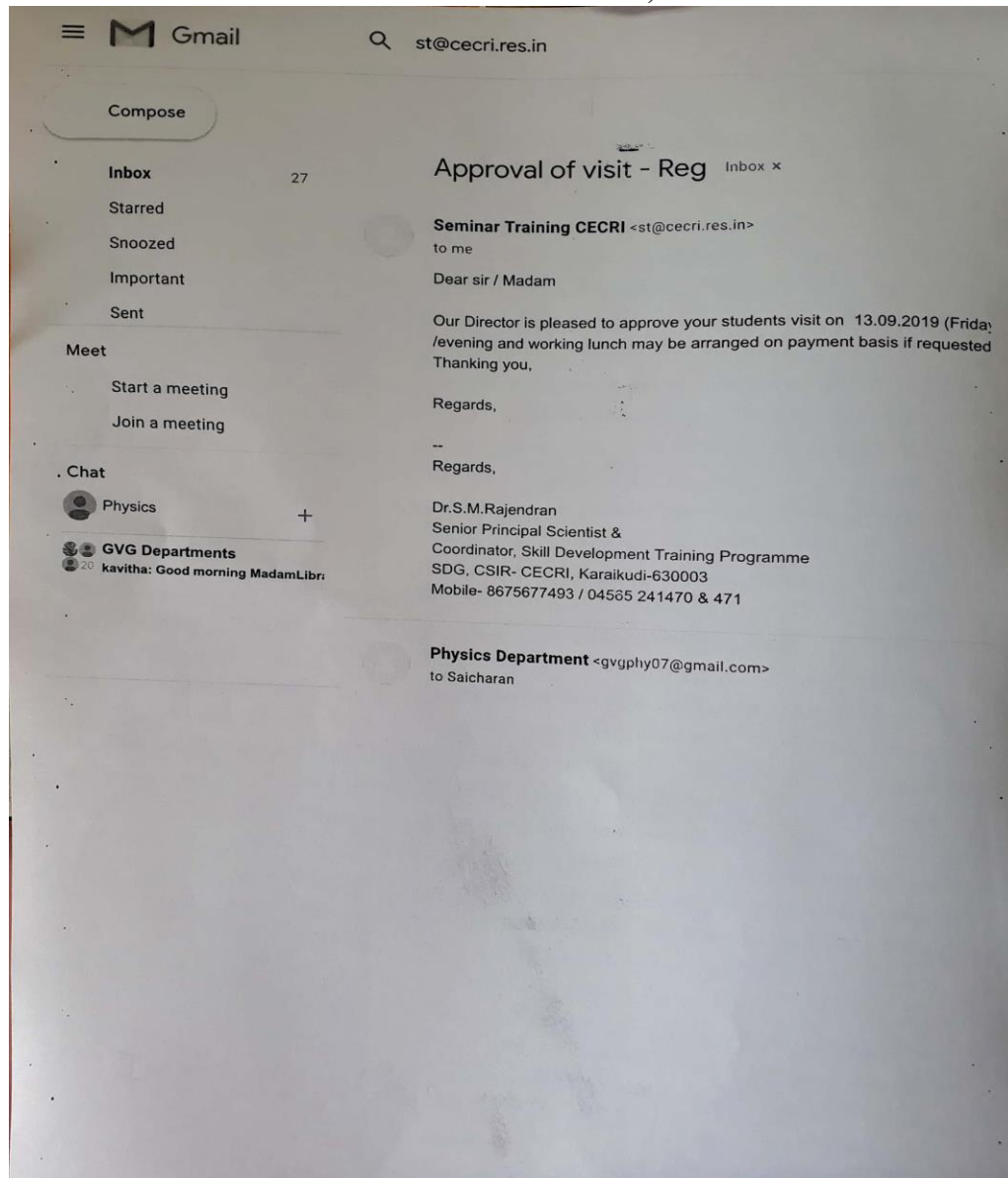
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Industrial Visit to CECRI 13.09.2019

The main purpose of the industrial visit is to provide an opportunity for the students to know things practically through interaction, working methods and practices. Moreover it gives an exposure to the students about practical working environment and also gain full awareness about industrial practices.

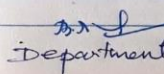
II B.Sc, I M.Sc & II M.Sc physics students and 3 faculty members visited CSIR - Central Electrochemical Research Institute, Karaikudi on 13th September 2019. Dr. S.M. Rajendran, Sr. Principal Scientist, Head/SDG Co-ordinate the visit to laboratories. Dr. Angappen explained the history of CECRI with videos. Then students were grouped into two and each group visited fuel cell laboratory and Energy storing devices. Research scholars and project assistants explained the following concepts in fuel cells and batteries.


a) Fuel cells: Assembling of Anode and cathode setup, charge & Discharge method, current research in hydrogen bromide liquid ion batteries, basic of fuel cells & Advantage and disadvantages of lithium ion batteries.

b) Batteries: Types of batteries, Construction and working of batteries, working of battery car and endurance and tolerance of batteries.

In the afternoon session students were taken to Central Instrumentation laboratory, & Scientist explained the principle, construction and working of NMR, EPR, XRD, FTIR, SEM & TEM. Students actively participated and interacted with scientist. Through this visit, motivated to take up project work in fuel cells and batteries.

Outcome: Motivation to take up summer internship & project in the fuel cells & batteries & gained knowledge about present and future research.

Department  B. NIRMALA
Associate Professor of Physics,
Department Co-ordinator,
DBT - Star College Scheme,
Sri GVG Visalakshi College,



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In CECRI, we learned about new different types, of battery, cells and new ideas about invention of new battery. We learned ideas of, how to manufacture new, better output giving batteries.

They showed in their video, how CECRI gives and find solutions for several companies. Especially, the solutions for soil erosion, salt erosion, and how to remove old paint from the material, without any damage.

They showed how, many international companies approach and got their solutions for their problems.

The lecture gave by the staffs and scientists gave us new ideas about science. We learned, a lot of things from CECRI, the visiting of CECRI gave us new experience and motivation to do internship and project in future.

Thank you for gives us such a wonderful opportunity, to visit the Asia's second largest lab, CECRI.

- S. Poongodi
Hsc. Physics - I

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**Industrial Visit to CECRI,
Kaaraikudi on 13.09.2019**



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