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 Alagappa University, Karaikudi organised under DBT Star College Scheme

2019-2020		
Date	Place of Visit	No. of Beneficiaries
04.09.2019	Department of Physics, Alagappa University, Karaikudi	52 B.Sc. Physics Students

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 Minutes of the Industrial Visit

91 04.09.2019 Industrial Visit to Alagappu University Alagappa University provided a golden opportunity to it students of B.Sc Physics to Visit Laboratory of Physics & University Science Instrumentation centre (USIC) on 4th September 2019. The main objective of Visit was to provide a Scientific platform to exchange the information in higher Studies. Dr. M. Sirakuman Accistant Properson of Physics, Alagappa University welcomed the faculties and students and facilitated the Vikit. Students were visited thin film lab, Solid State Jonics lab, Mett growth lab, Solution growth lab and USIC Research Scholars from Alagappa University Shared their knowledge with the Students enplained about the Various techniques and processes used in preparation of then films nanoparticles, polymer electrolyte film and various Courstal growth Techniques. Students were taken to Specialized Sections where thete are performed and got understand the functions of all the a chance to updated instruments used to perform the analysis XRD, AFM, VSM, UV, PL, thickness measure Such as ment analyser, SEM & TEM techniques The students Shaved their interests and actively participated in the visit and it was an interactive for exchange of new prowledge tonum. coppositunities for Stimulating young minds No. of Beneficiaries : 52 B.a. Department 6-oridinator

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

IV REPORT

An IN was averanged by the Department of Physics to Alagappa University, Karaikkudi on 04 September 2019.

The main motto of this IV was to learn about the synthesis of nanoparticles in different ways and their characterisation techniques.

As we entered the Alagappa Campus, we were delightful to see such a large campus full of educational Institutions. There were Engineering colleges, Polytechnic colleges, Axts and Science colleges, Kendriya Vidyalaya Karaikkudi and many.

We reached the Science block of the University around 10:00 am. We were welcomed and explained about the University and the Physics Department.

We could find many different labs for different types of nanoparticle synthesis. All the students were split into three batches and visited different Laboratories.

Firstly we visited the characterisation lab where we studied about the working of an sweface profilometer, DV visible, Micro Auto lab.

Then we went to Thin film evating lab and swint about CH instrument, different methods of thin film coating like electrode deposition, chemical bath spin coating, dip coating and spray coating. Other than Hot air oven, muffle finace and microwave oven, we also learnt about Tubular finace which is used to get desired compound by passing the required gas in it while the drying process goes on. In another thin film lab, we saw different oven, spin coaters and pH measwing instrument. In the next lab we saw tubular finace, box joinace for annealing purpose, ultrasonicator, water bath, centrifuges and oven. A fumehood was setup at that laboratory to suck out the gases emitted.

The next lab consisted Physical vapour deposition methods like electron beam evaporation and RF sputtering methods which takes a lot of time, about 5 hours, to get evacuated.

After This we had own lunch and at last we visited the characterisation lab-11 where we learnt about the purpose and working of X-ray diffraction (XRD), Atomic force microscope (AFM), Vibrating Sample magnetometer (VSM).

> TR. PADMASHRI III - B. Sc., Physics.

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 Alagappa University, Karaikudi



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

