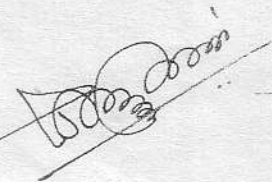


## CERTIFICATE

This is to certify that the work entitled "**Fabrication and Characteristics of Graphene- $V_2O_5$  Electrode For Supercapacitors**" is the bonafide work done by "**SREELAKSHMI.T.M**" (KVAPMPH010), MES KVM College, Valanchery for the partial fulfilment of the award of Master of Science degree in Physics during the academic years 2015-2017, under the supervision and guidance of **Dr. Mohamed Shahin Thayyil**, Assistant professor, Department of Physics, University of Calicut, during the period April-May 2017.

**Dr. MOHAMED SHAHIN THAYYIL**  
ASST. PROFESSOR  
Department of Physics, University of Calicut  
Kerala (India), Pin: 673635



**Prof. V.C Suresh**  
Head of Department  
Department of Physics  
M.E.S K V M College-Valanchery

**Dr. Mohamed Shahin Thayyil (Guide)**  
Assistant Professor  
Department of Physics  
University of Calicut

External examiner

1.

2.