



**AVIT**  
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



VINAYAKA MISSION'S  
RESEARCH FOUNDATION  
(Deemed to be University under section 3 of the UGC Act 1956)



**CENTRE FOR NANOTECHNOLOGY RESEARCH  
DEPARTMENT OF HUMANITIES AND SCIENCE**

**RESEARCH UNDERTAKEN BY EXTERNAL FUNDING**

<p><b>Title of the Project</b></p> <p><b>Investigation of defects induced microstructural changes in three-dimensional topologically complex morphology in nanoporous Au-Pd</b></p> <p>Ref.: CSR-KN/CRS-104/2019-20/429 dated 05 July 2019</p> <p><b>Principal Investigator: Dr R. N. Viswanath, Professor in Physics</b></p>		
<p><b>Outline of the research project:</b></p> <p>The main objective of the project work is to pursuit the following two challenging tasks:</p> <p>i) Preparation of Au-Pd based nanoporous membrane from Ag-Pd-Au ternary alloy and to identify the defects that are generated during the evolution of three-dimensional topologically complex morphology.</p> <p>ii) Study of hydrogen sensing activity in Au-Pd based nanoporous membrane.</p>		
<b>Funding Agency</b>	<b>Duration</b>	<b>Financial Allocation Per year</b>
UGC – DAE CSR	3 years (2019 – 2022)	<b>Project Fellow: 168000 + HRA</b>  <b>Contingency : 15000</b>  <b>Consumables : 30000</b>
<p><b>Name of the Project Fellow: G. Nirmaladevi    Joined on 13.05.2019</b></p>		

*R. N. Viswanath*

**LAB INCHARGE**

*J. N. Jayaram*

**HOD**