



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



Sl. No. : 10792

Reg. No. : 13REEE1009

The Board of Management of
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of
Science and Technology (Deemed to be University)
hereby makes known that

S. SIVAKUMAR

S/O S CHANDRA

has been admitted to the Degree of
Doctor of Philosophy
in

ELECTRICAL AND ELECTRONICS ENGINEERING

having been certified by duly appointed examiners to be
qualified to receive the same in the year **SEP-2021**

in accordance with the provisions of
UGC Regulations 2009 (for the award of Ph.D. Degree)

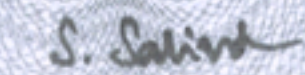
Title of the Thesis:

**DESIGN AND DEVELOPMENT OF SMART ENERGY MANAGEMENT SYSTEM USING
IoT WITH CYBER SECURITY AND GSM FOR HYBRID POWER GENERATION**

Given under the seal of this Deemed to be University

Dated : 06-NOV-2021


Registrar


Vice Chancellor




Chancellor



Vel Tech

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**REPORT OF THE BOARD OF EXAMINERS FOR THE PH.D PUBLIC ORAL
EXAMINATION OF Mr.S.SIVAKUMAR (REG. NO. 13REEE1009), PART-TIME RESEARCH
SCHOLAR, DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING,
VEL TECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.**

The Public Viva-Voce examination of Mr.S.Sivakumar (Reg. No. 13REEE1009), on his Ph.D thesis entitled "*Design and Development of Smart Energy Management System using IoT with Cyber Security and GSM for Hybrid Power Generation (HPG)*" submitted for the award of Ph.D degree in the Department of Electrical and Electronics Engineering of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date : 05/09/2021, Sunday at 11.00 a.m.
Mode : Online Video Conference – Google Meet
Meeting Link : <https://meet.google.com/adf-giqt-tio>
Indian Examiner : **Dr. R. Shenbagalakshmi**
Associate Professor, Dept. of Electrical and Electronics Engineering,
SKN Sinhgad Institute of Technology and Science, Gate No 309,
Kusgaon (BK), Off. Mumbai-Pune Express Way, Lonavala, Tal,
Maval District, Pune – 410401.

Subject Expert : **Dr. K. Padmavathi**
Professor, Electrical and Electronics Engineering
B.M.S. College of Engineering,
P.O. Box No.: 1908, Bull Temple Road, Bangalore - 560019, Karnataka,
India. Mobile No: 9845765048
E-mail: kp.eee@bmsce.ac.in

Supervisor and Convener : **Dr. S. Baskar** (Professor, Vel Tech)
Department of Electrical & Electronics Engineering, Vel Tech

Based on the candidate's exposition of his thesis and his answers to the questions raised by the examiners and other participants, the Board of Examiners have resolved to recommend that the performance of the candidate in his Ph.D. Oral Examination is Excellent and declare to have Passed his Ph.D. Oral Examination and further recommend the award of Ph.D degree in Electrical & Electronics Engineering of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the candidate.

Subject Expert



Indian Examiner

Supervisor



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
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**PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF
Mr.S.SIVAKUMAR HELD AT 11A.M./P.M. ON 05-09-2021 THROUGH
ONLINE MODE AT VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D
INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600 062.**

The Ph.D. Oral Examination of **Mr.S.Sivakumar** (Reg.No.13REEE1009) on the thesis **DESIGN AND DEVELOPMENT OF SMART ENERGY MANAGEMENT SYSTEM USING IOT WITH CYBER SECURITY AND GSM FOR HYBRID POWER GENERATION (HPG)** has been conducted on **05-09-2021** at **11 A.M** through online mode using Google Meeting tool.

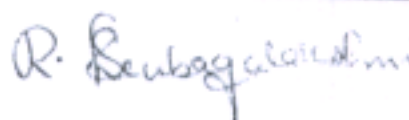
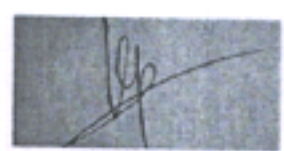
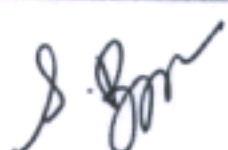
Members Present

1. Dr. R. Shenbagalakshmi
2. Dr. K. Padmavathi
3. Dr. S. Baskar

Indian Examiner
Subject Expert
Supervisor & Convener

The research scholar **Mr.S.Sivakumar** has presented the salient features of his/her research work. The members of the Board and audiences have posed the questions related to the subject. The questions raised by the Foreign and Indian Examiners have also been put to the scholar. The scholar has answered all the questions from the Board Members and the audiences. The scholar's performance in the Ph.D. Oral Examination is **Excellent**.

Based on the scholar's research work, oral presentation, clarifications and answers to the questions from the Examiners and audiences, the Board unanimously recommends to accept the Ph.D. Thesis for the award of Degree of Doctor of Philosophy in **Electrical & Eletronics Engineering** in the School of **Electrical & communication**, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to Mr. **S.SIVAKUMAR**.

1. 
Indian Examiner
2. 
Subject Expert
3. 
Supervisor & Convener

