



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. : **8216**

Reg. No. : **16REME1017**

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

**KADAYAM VENKATRAMAN SRINIVASAN
S/O MEENAKSHI V**

has been admitted to the Degree of
Doctor of Philosophy

in

MECHANICAL ENGINEERING

having been certified by duly appointed examiners to be
qualified to receive the same in the year **AUG- 2020**

in accordance with the provisions of
UGC Regulations 2016 (for the award of Ph.D. Degree)

Title of the Thesis:

**DEVELOPMENT OF POROUS REGENERATOR FOR STIRLING CRYOCOOLER USING
ADDITITVE MANUFACTURING TECHNIQUES**

Given under the seal of this Deemed to be University

Dated : **23.10.2020**

Registrar



S. Saliva
Vice Chancellor



B. Srinivasan
Chancellor



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Under Act No. 1986)

PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr./Ms.
K.V.SRINIVASAN HELD AT 02:30 A.M./P.M. ON
10/08/2020 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./Ms.
K.V.SRINIVASAN (Reg.No. 16REME1017) on the thesis "Development of
Porous Regenerator for Stirling Cryocooler using Additive Manufacturing
Techniques" been conducted on 10/08/2020 at 2:30 A.M./P.M. through
online mode using Zoom tool.

Members Present

1. Dr. Srinivasan Kasturirangan, IISc Bangalore - Indian Examiner
2. Dr. S. Suresh, Professor, NIT Trichy - Subject Expert
3. Dr. M. Arulprakasajothi VTU - Supervisor & Convener

The research scholar Mr./Ms. K.V. Srinivasan 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/Satisfactory.

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 Mechanical Engineering in the School of Mechanical &
Construction, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science
and Technology to Mr./Ms. K.V.SRINIVASAN.

Subject Expert

Dr. S. SURESH, M.Tech., Ph.D

Associate Professor

Department of Mechanical Engineering

National Institute of Technology

Trichirappalli - 620 015, Tamil Nadu, India

Indian Examiner

CCT, IISc, Bangalore

560012

PROFESSOR

Supervisor





Vel Tech
Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology

REPORT OF THE BOARD OF EXAMINERS FOR THE PH.D PUBLIC ORAL
EXAMINATION OF K.V.SRINIVASAN (REG. NO. 16REME1017),PART-TIME RESEARCH
SCHOLAR, DEPARTMENT OF MECHANICAL ENGINEERING,
VEL TECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.

The Public Viva-Voce examination of K.V.SRINIVASAN (Reg. No. 16REME1017), on his Ph.D thesis entitled " Development of Porous Regenerator for Stirling Cryocooler using Additive Manufacturing Techniques " submitted for the award of Ph.D degree in the Department of Mechanical Engineering of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date	:	10/08/2020, Monday at 02.30 p.m.
Mode	:	Online Video Conference – Zoom
Meeting Link	:	Meeting ID:- 89431765532 , Password:- thermal https://us02web.zoom.us/j/89431765532?pwd=b1J6aVVJcXlFb0Mwe1BrNKtMZlV3Zz09
Indian Examiner	:	Dr. Srinivasan Kasturirangan, Centre for Cryogenic Technology, Indian Institute of Science, Bengaluru 560 012, India
Subject Expert	:	Dr. S. Suresh, Associate Professor, Department of Mechanical Engineering, NIT Trichy
Supervisor and Convener	:	Dr. M. Arulprakasajothi, Professor, Department of Mechanical Engineering, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi

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 Defended his Ph.D. Oral Examination and further recommend the award of Ph.D degree in Mechanical Engineering of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the candidate.

Subject Expert

Dr. S. SURESH, M.Tech., Ph.D
Associate Professor

Department of Mechanical Engineering
National Institute of Technology

J. Kasturirangan
PROFESSOR

Indian Examiner

CCT, IISc, Bangalore
560012

Supervisor

