



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. : 10769

Reg. No. : 16REME1018

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

RUPESH P L

S/O KANCHANA

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 **APR-2021**

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

Title of the Thesis:

**ISOTHERM IDENTIFICATION ON THE SURFACE OF GAS TURBINE ENGINE HOT
COMPONENTS USING TEMPERATURE INDICATING PAINT THROUGH IMAGE
PROCESSING ALGORITHM**

Given under the seal of this Deemed to be University

Dated : 06-NOV-2021

Registrar



S. Salim
Vice Chancellor



B. S. Srinivas
Chancellor



Vel Tech

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

**PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr. RUPESH P L
HELD AT 11:00 A.M. ON 29/04/2021 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. RUPESH P L (Reg. No. 16REME1018) on the thesis "Isotherm Identification on the Surface of Gas Turbine Engine Hot Components using Temperature Indicating Paint through Image Processing Algorithm" been conducted on 29/04/2021 at 11:00 A.M., through online mode using Zoom tool.

Members Present

1. **Dr. K M Pandey, NIT Silchar Indian Examiner**
2. **Dr S Ramachandran, Professor, CMR Institute of Technology Subject Expert**
3. **Dr. M. Arulprakasajothi Supervisor & Convener**

The research scholar **Mr. RUPESH P L** has presented the salient features of his 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 **Mechanical Engineering** in the School of Mechanical & Construction, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to **Mr. RUPESH P L**.

Indian Examiner

Subject Expert

Supervisor & Convener

30/4/2021



Vel Tech

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

**REPORT OF THE BOARD OF EXAMINERS FOR THE Ph.D PUBLIC ORAL
EXAMINATION OF RUPESH P L (REG. NO. 16REME1018), 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 **RUPESH P L** (Reg. No. 16REME1018), on his Ph.D thesis entitled "**Isotherm Identification on the Surface of Gas Turbine Engine Hot Components using Temperature Indicating Paint through Image Processing Algorithm**" 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 : 29/04/2021, Thursday at 11.00 a.m.
Mode : Online Video Conference – Zoom
Meeting Link : Meeting ID: - 849 5930 9255, Password: - thermal

<https://us02web.zoom.us/j/84959309255?pwd=V0JVaHdpTW9lZzZtdFFFbFEhZU82UT09>

Indian Examiner : Dr. K M Pandey,
Professor,
Department of Mechanical Engineering,
NIT Silchar

Subject Expert : Dr S Ramachandran,
Professor,
Department of Mechanical Engineering,
CMR Institute of Technology, Bangalore

**Supervisor and
Convener** : Dr. M. Arulprakasajothi,
Associate 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 **Passed** 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

Indian Examiner

Supervisor

30/4/2021