



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. : 8205

Reg. No. : 13REEC1023

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

HEMAKUMAR V S

S/O V PARVATHI

has been admitted to the Degree of
Doctor of Philosophy

in

ELECTRONICS & COMMUNICATION ENGINEERING

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

in accordance with the provisions of

UGC Regulations 2009 (for the award of Ph.D. Degree)

Title of the Thesis:

**PERFORMANCE ANALYSIS OF ZINC OXIDE COATED ON DIFFERENT SUBSTRATES
FOR ENERGY HARVESTING AND DAMAGE DETECTION IN FIBER COMPOSITE**

Given under the seal of this Deemed to be University

Dated : 23.10.2020

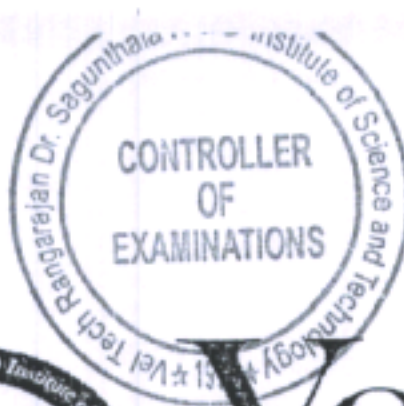
Registrar



S. Salim
Vice Chancellor



B. S. Srinivasan
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./Ms. HEMAKUMAR VS HELD AT 10-00 A.M./P.M. ON 10-02-2020 IN THE ECE, VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600 062.

The Ph.D. Oral Examination of Mr./Ms. HEMAKUMAR VS (Reg.No. 13AEEC1023) on the thesis Performance Analysis of Zinc Oxide Coated on Different Substrate for Energy Harvesting and damage detection has been conducted on 10-02-2020 at 10-00 A.M./P.M. in the GALLERY HALL/ECE Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai-600 0062.

Members Present

1. Dr. R. Anand
2. Dr. J. Selvakumar
3. Dr. P. Suresh

Thesis Examiner

Expert Member

Supervisor & Convener

The research scholar Mr./Ms. Hemakumar VS 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 Satisfactory.

Based on the scholar's research work, oral presentation and, 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 ECE in the School of Electrical & Communication, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to Mr./Ms. Hemakumar VS.

1. Rohit 10/2/20
2. Shree 10/2/20
3. Dr. P. Suresh 10/2/20

Thesis Examiner

Expert Member

Supervisor & Convener

Prof. V. S. S. Kumar
Vice 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)

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REPORT OF THE BOARD OF EXAMINERS FOR THE PUBLIC ORAL EXAMINATION
IN THE CASE OF MR. HEMAKUMAR V S (REG. NO. 13REEC1023), PART-TIME
RESEARCH SCHOLAR, DEPARTMENT OF ELECTRONICS AND
COMMUNICATION ENGINEERING, VEL TECH RANGARAJAN Dr. SAGUNTHALA
R&D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.

The Public Viva-Voce examination of Mr. Hemakumar V S (Reg. No. 13REEC1023), on his thesis
entitled "*Performance Analysis of Zinc Oxide Coated on Different Substrates for Energy
Harvesting and Damage Detection in Fiber Composite*" submitted for the award of Ph.D degree
in ECE of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of
Science and Technology has been conducted as per the following schedule:

Date:

10/02/2020, Monday at 10.00 a.m.

Venue:

Gallery Hall, Vel Tech

External Examiners:

Dr. R. Anand
Associate Professor
Department of EEE,
Aurora's Technological & Research Institute,
Parvathapur,
Rangareddy, Telangana – 500098.
Mobile: 9994848610
Email: anandrb@gmail.com

Dr. J. Selvakumar
Professor,
Department of ECE,
SRM Institute of Science and Technology,
Kattankolathur,
Chennai.
Mobile No.: +91-9551460949
Emailid.: selva2802@gmail.com

Supervisor and Convener:

Dr. P. Suresh, (Associate Professor, 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 has resolved to recommend that the
performance of the candidate in his Ph.D. Oral Examination is Satisfied and
declare to have passed his Ph.D. Oral Examination and further recommend the award of Ph.D
degree in ECE of Vel Tech Rangarajan Dr. Sagunthala R&D
Institute of Science and Technology to the candidate.

External Examiner

Dr. R. Anand

Expert Member

Prof. V. S. Sakumar
Vice Chancellor

Vel Tech

Supervisor