



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. : 8215

Reg. No. : 14RHMA1002

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

REGAN M

S/O KALAIRANI MURUGASAN

has been admitted to the Degree of
Doctor of Philosophy

in

MATHEMATICS

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

in accordance with the provisions of

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

Title of the Thesis:

**ENTANGLEMENT AND IMMUTABILITY ANALYSIS OF HIV AFFECTED POPULATION -
A STUDY BY MATHEMATICAL MODELING**

Given under the seal of this Deemed to be University

Dated : 23.10.2020

Registrar



S. Sathish
Vice Chancellor



Chancellor



Vel Tech

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R&D Institute of Science and Technology
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**REPORT OF THE BOARD OF EXAMINERS FOR THE PH.D PUBLIC ORAL
EXAMINATION OF DHARMALINGAM G (REG. NO. 14REME1005), PART-TIME
RESEARCH SCHOLAR, DEPARTMENT OF MECHANICAL ENGINEERING,
VELTECH RANGARAJAN DR. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.**

The Public Viva-Voce examination of Mr. M. Regan (Reg. No. 14RHMA1002), on his Ph.D thesis entitled "Entanglement And Immutability Analysis Of HIV Affected Population - A Study By Mathematical Modeling" submitted for the award of Ph.D degree in the Department of Mathematics of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date : 30/07/2020, Thursday at 11.30 am.
Mode : Online Video Conference – Zoom.
Meeting Link : Meeting ID : 82553100141, Password : Maths
<https://us02web.zoom.us/j/82553100141?pwd=Y3hEZmQrL3lQMHFMeEo5NWxCK1dZQT09>

Indian Examiner : Dr. A. V. Papa Rao, Assistant Professor,
Department of Mathematics,
JNTUK, University college of Engineering,
Vizianagaram, - 535003, Andhra Pradesh
Email:-paparao.alla@gmail.com
Phone:- 9848579720

Subject Expert : Dr. G. Ayyappan, Professor and Head
Department of Mathematics
Pondicherry Engineering College,
Pillaichavadi, Puducherry - 605 014.
Email:-ayyappanpec@gmail.com
Phone:- 9443787775

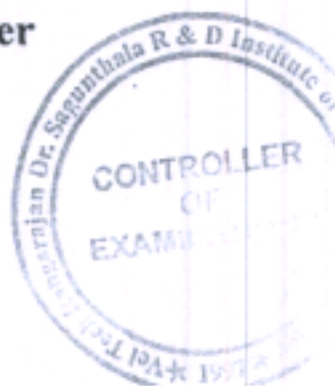
**Supervisor and
Convener** : Dr. R. Suresh (Professor, Vel Tech)
Department of Mathematics., Vel Tech

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 **very good** and declare to have **passed** his Ph. D. Oral Examination and further recommend the award of Ph. D degree in **Mathematics** of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the candidate.

(Dr. G. Ayyappan)
Subject Expert

(Dr. A. V. Papa Rao)
Indian Examiner

(Dr. R. Suresh)
Supervisor





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Rangarajan Dr. Sagunthala
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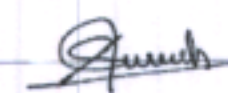
**PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr. M. Regan
HELD AT 11:30 A.M./P.M. ON 30-07-20 THROUGH ONLINE MODE AT VEL
TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF SCIENCE
AND TECHNOLOGY, AVADI, CHENNAI-600 062.**

The Ph.D. Oral Examination of Mr. M. Regan (Reg. No. 14RHMA1002), on the thesis "**Entanglement And Immutability Analysis Of HIV Affected Population - A Study By Mathematical Modeling**" has been conducted on 30-07-20 at 11:30 A.M, through online mode using Zoom tool.

Members Present

1. Dr. A. V. Papa Rao, Indian Examiner
2. Dr. G. Ayyappan, Subject Expert
3. Dr. R. Suresh, Supervisor & Convener


G. Ayyappan



The research scholar Mr. M. Regan 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 very good .

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 **Mathematics** in the School of Sciences and Humanities, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to Mr. M. Regan.

1. Dr. A. V. Papa Rao, Indian Examiner
2. Dr. G. Ayyappan, Subject Expert
3. Dr. R. Suresh, Supervisor & Convener


G. Ayyappan

