



Vel Tech

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

(Deemed to be University Estd. as per UGC Act, 1956)



Sl. No. : 7403

Reg. No. : 11REEE1001

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

**M.KARTHIKEYAN
S/O VASANTHA SM**

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 **DEC-2018**

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

Title of the Thesis:

**INDOOR AND OUTDOOR NAVIGATION FOR BLIND
PERSON THROUGH RASPBERRY PI CAMERA AND NOVEL
SHIFT ALGORITHMS IN FOG COMPUTING**

Given under the seal of this Deemed to be University

Dated : 13.08.2019


Registrar


Vice Chancellor




President



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. M. KARTHIKEYAN HELD AT 11.00 A.M./P.M. ON 17.12.2018 IN THE VIDEO CONFERENCE HALL, VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600 062.

The Ph.D. Oral Examination of Mr./Ms. M. Karthikeyan (Reg.No. 11REEE1001) on the thesis Indoor and Outdoor Navigation for Blind person through Raspberry Pi camera and Novel shifting Algorithm in Fog Computing has been conducted on 17.12.2018 at 11.00 A.M./P.M. in the Video conference Hall Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai-600 0062.

Members Present

1. Dr. Chandan Kumar Sarker Thesis Examiner
2. Dr. N.P. Subramaniam Expert Member
3. Dr. K. Karunanithi Supervisor & Convener

The research scholar Mr./Ms. M. Karthikeyan 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 Good.

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 Electrical and Electronics Engin the School of Electrical and Communication Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to Mr./Ms. M. Karthikeyan.

1. C. K. Sarker Thesis Examiner
2. N.P. Subramaniam Expert Member
3. K. Karunanithi Supervisor & Convener



RmB
18/12/2018

REPORT OF THE BOARD OF EXAMINERS FOR THE PUBLIC ORAL EXAMINATION IN THE CASE OF MR. M.KARTHIKEYAN (REG. NO. 11REEE1001), 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. M.Karthikeyan (Reg. No. 11REEE1001), on his thesis entitled "*Indoor and Outdoor Navigation for Blind Person through Raspberry PI Camera and Novel Shift Algorithms in Fog Computing*" submitted for the award of Ph.D degree in Electrical and Electronics Engg of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date: 17/12/2018, Monday at 11.00 a.m.
Venue: Video Conference Hall, Vel Tech
External Examiners: Dr. Chandan Kumar Sarkar
Professor,
Electronics and Telecommunication Engineering
Department,
Jadavpur University, Kolkata,
West Bengal.
Ph. 9433808582
E-mail: phyhod@hotmail.com

Dr. N.P. Subramaniam
Associate Professor,
Department of Electrical and Electronics Engineering,
Pondicherry Engineering College,
Puducherry, India 605 014.
Mobile: 9486441444
Email: npsubbu@pec.edu

Supervisor and Convener: Dr. K. Karunanithi, (Assoc. Professor, Vel Tech)

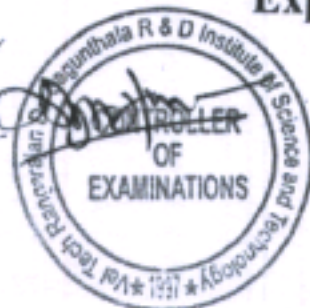
Based on the candidate's exposition of his thesis and his answers to the questions raised by the examiners and other participants, the Board of Examiners has resolved to recommend that the performance of the candidate in his Ph.D. Oral Examination is Good and declare to have Passed his Ph.D. Oral Examination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

C. K. Sarkar

External Examiner

17.12.18

N.P. Subramaniam
Expert Member 17/12/18



K. Karunanithi

Supervisor

Rm/b
10/12/2018