



Vel Tech

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

(Deemed to be University Estd. by S.3 of U.G. Act, 1956)



Sl. No. : 7365

Reg. No. : 09RHMA1008

The Board of Management of this Deemed University
hereby makes known that

D. SUKUMARAN

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-2017

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

Title of the Thesis:

**TRANSIENT AND STEADY-STATE ANALYSIS OF SOME QUEUEING
SYSTEMS**

Given under the seal of this Deemed University



dated : 11.08.2018


Registrar


Vice Chancellor


President

Veltech Dr.RR & Dr.SR University

(Estd. by 3 of UGC Act, 1956)

PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr./Ms. D. SUKUMARAN HELD AT 10.00 A.M./P.M. ON 10.07.2017 IN THE VIDEO CONFERENCE HALL VELTECH DR.RR & DR.SR UNIVERSITY, AVADI, CHENNAI-600 062.

The Ph.D. Oral Examination of Mr./Ms. D. SUKUMARAN (Reg.No. 09RMA1008) on the thesis Transient and Steady-State Analysis of Some Queueing Systems has been conducted on 10.07.2017 at 10.00 A.M./P.M. in the Video Conference Hall Vel Tech Dr.RR & Dr.SR Technical University, Avadi, Chennai-600 0062.

Members Present

- | | |
|-------------------------------|-----------------------|
| 1. Prof. Dr. S. Dharma Raja | Thesis Examiner |
| 2. Prof. Dr. R. Arumuganathan | Expert Member |
| 3. Prof. Dr. S. Udayabaskaran | Supervisor & Convener |

The research scholar Mr./Ms. D. SUKUMARAN 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 Mathematics in the School of Science & Humanities, Veltech Dr.RR & Dr.SR University to Mr./Ms. D. SUKUMARAN.

- | | |
|-----------------------|-----------------------|
| 1. <u>[Signature]</u> | Thesis Examiner |
| 2. <u>[Signature]</u> | Expert Member |
| 3. <u>[Signature]</u> | Supervisor & Convener |

Prof. Dr. E. Kannan
Registrar

Vel Tech
Rangarajan Dr. Sagnithala
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 PUBLIC ORAL EXAMINATION
IN THE CASE OF Mr. D. SUKUMARAN (Reg. no. 09RHMA1008), PART-TIME
RESEARCH SCHOLAR, DEPARTMENT OF MATHEMATICS, VELTECH Dr. RR & Dr.
SR UNIVERSITY, AVADI, CHENNAI- 600062.

The Public Viva-Voce examination of Mr. D. Sukumaran (Reg. no. 09RHMA1008), on his thesis
entitled "*Transient And Steady-State Analysis Of Some Queuing Systems*" submitted for the award
of Ph.D degree in Mathematics of Veltech Dr. RR & Dr. SR University has
been conducted as per the following schedule:

Date: 10.7.17, Monday at 10.00 a.m.

Venue: Video Conference Hall, VTU

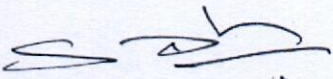
External Examiners: Dr. S. Dharmaraja,
Professor,
Department of Mathematics,
Indian Institute of Technology, Delhi,
New Delhi 110 016.
India.
Mobile: 09899062093

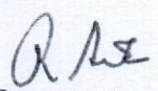
12.07.17

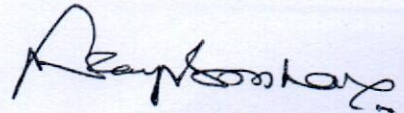
Dr. R. Arumuganathan,
Professor & Head,
Department of Mathematics,
P.S.G. College of Technology,
Coimbatore 641004.

Supervisor and Convener: Dr. S. Udayabaskaran,,(Professor, VTU)

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 satisfactory and
declare to have passed his Ph.D. Oral Examination and further recommend the award of Ph.D
degree in Mathematics of Veltech Dr. RR & Dr. SR University to the
candidate.


External Examiner


Expert Member


Supervisor