



ANNA UNIVERSITY, CHENNAI - 600 025  
CENTRE FOR RESEARCH




CERTIFICATE

1. This is to certify that no corrections/suggestions were pointed out by the Indian/Foreign Examiner(s) in the Thesis titled " PARABOLIC FLOW PAST AN INFINITE VERTICAL PLATE WITH HEAT AND MASS FLUX " submitted by Mr./Ms. VENKATESAN.J

OR

2. This is to certify that all corrections and suggestions pointed out by the Indian /Foreign Examiner(s) are incorporated in the Thesis titled " PARABOLIC FLOW PAST AN INFINITE VERTICAL PLATE WITH HEAT AND MASS FLUX " submitted by Mr./Ms. VENKATESAN.J

Signature of the Joint Supervisor  
(if applicable)

  
Signature of the Supervisor

Dr. R. MUTHUCUMARASWAMY, Ph.D.,  
Professor & Head  
Department of Applied Mathematics  
Sri Venkateswara College of Engineering  
Irungattukottai - 602 117, Sriperumpudur Taluk, India.

Place : Chennai

Date : 06.07.2015





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Proceedings of the Ph.D. Viva-Voce Examination of Mr./Ms. VENKATESAN.J held at 09:30 AM on 06.07.2015 in Conference Hall, First Floor, Department of Bio Technology, Sri Venkateswara College of Engineering, Sriperumbudur

The Ph.D. Viva-Voce Examination of Mr./Ms. VENKATESAN.J (Reg. No. 2814719102) on his/her Ph.D. Thesis Entitled " PARABOLIC FLOW PAST AN INFINITE VERTICAL PLATE WITH HEAT AND MASS FLUX " was conducted on 06.07.2015 at 09:30 AM in the Conference Hall, First Floor, Department of Bio Technology, Sri Venkateswara College of Engineering, Sriperumbudur.

The following Members of the Oral Examination Board were present:

- |  |                       |
|--|-----------------------|
| 1. Dr. R.K. Debnath, Professor, Department of Mathematics, Gauhati University<br>Guwahati 781 014, Assam | Indian Examiner       |
| 2. Dr. P. Loganathan, Professor, Department of Mathematics, Anna<br>University, Chennai 25               | Subject Expert        |
| 3. Dr. Muthucumarasawamy.R, Professor, Sri Venkateswara College of<br>Engineering, Tiruvallur            | Supervisor & Convenor |

The research scholar, Mr./Ms. VENKATESAN.J presented the salient features of his/her Ph.D. work. This was followed by questions from the board members. The questions raised by the Foreign and Indian Examiners were also put to the scholar. The scholar answered the questions to the full satisfaction of the board members.

The corrections suggested by the Indian/Foreign examiner have been carried out and incorporated in the Thesis before the Oral examination.

Based on the scholar's research work, his/her presentation and also the clarifications and answers by the scholar to the questions, the board recommends that Mr./Ms. VENKATESAN.J be awarded Ph.D. degree in the Faculty of Science and Humanities.

- |                            |                           |
|----------------------------|---------------------------|
| 1. Rudra N. Sika 6/7/2015  | Indian Examiner           |
| 2. P. Loganathan 6/7/2015  | Subject Expert            |
| 3. M. R. Muthucumarasawamy | Supervisor & Convenor     |
| 4. -                       | Joint-Supervisor (If any) |



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The research work embodied in the present Thesis entitled **“PARABOLIC FLOW PAST AN INFINITE VERTICAL PLATE WITH HEAT AND MASS FLUX”** has been carried out in the Department of Applied Mathematics, Sri Venkateswara College of Engineering, Sriperumbudur, Chennai. The work reported herein is original and does not form part of any other thesis or dissertation on the basis of which a degree or award was conferred on an earlier occasion or to any other scholar.

I understand the University’s policy on plagiarism and declare that the thesis and publications are my own work, except where specifically acknowledged and has not been copied from other sources or been previously submitted for award or assessment.

**Counter Signed by**

**VENKATESAN J**  
RESEARCH SCHOLAR

**Dr. R. MUTHUCUMARASWAMY**  
SUPERVISOR  
Professor & Head  
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