



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. : **10801**

Reg. No. : **17REME1022**

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

SYED RIYAZ AHAMMED

S/O S RAHAMATH BEE

has been admitted to the Degree of
Doctor of Philosophy

in

MECHANICAL ENGINEERING

having been certified by duly appointed examiners to be
qualified to receive the same in the year **OCT-2021**

in accordance with the provisions of

UGC Regulations 2016 (for the award of Ph.D. Degree)

Title of the Thesis:

**3D PRINTING OF MULTIWALLED CARBON NANOTUBE/POLYVINYL ALCOHOL
COMPOSITES FOR ELECTRONIC CIRCUIT APPLICATIONS**

Given under the seal of this Deemed to be University

Dated : **06-NOV-2021**

Registrar



S. Sahind

Vice Chancellor



Chancellor



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PROCEEDINGS OF THE Ph.D. Oral Examination of Mr. SYED RIYAZ AHAMMED held at 02.30 P.M. on 08.10.2021 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. Syed Riyaz Ahammed (Reg.No.17REME1022)** on the thesis "**3D Printing of Multiwalled Carbon Nanotube/Polyvinyl Alcohol Composites for Electronic Circuit Applications**" has been conducted on 08.10.2021 at 02.30 P.M. through online mode using Zoom meeting.

Members Present:

- | | | |
|----|--|----------------------------------|
| 1. | Dr. Govind Sharan Dangayach, Professor, MNIT, Jaipur. | Indian Examiner |
| 2. | Dr. Dineshsingh Thakur, Professor,
Defence Institute of Advanced Technology, Pune | Subject Expert |
| 3. | Dr. Praveen A.S.
Associate Professor | Supervisor & Convener |

The research scholar **Mr. Syed Riyaz Ahammed** has presented the salient features of his 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 **Excellent**.

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 **Mechanical Engineering** in the **School of Mechanical and Construction**, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to **Mr. Syed Riyaz Ahammed**.

Indian Examiner

Subject Expert

Supervisor & Convener





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**REPORT OF THE BOARD OF EXAMINERS FOR THE Ph.D. PUBLIC ORAL EXAMINATION
OF Mr. SYED RIYAZ AHAMMED (REG. NO. 17REME1022), PART-TIME RESEARCH
SCHOLAR, DEPARTMENT OF MECHANICAL ENGINEERING,
VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.**

The Public Viva-Voce examination of **Mr. SYED RIYAZ AHAMMED** (Reg. No. 17REME1022), on his Ph.D. thesis entitled **“3D Printing of Multiwalled Carbon Nanotube/Polyvinyl Alcohol Composites for Electronic Circuit Applications”** submitted for the award of Ph.D. degree in the Department of Mechanical Engineering of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date : 08.10.2021, Friday at 02.30 p.m.
Mode : Online Video Conference – Zoom
Meeting Link : <https://us04web.zoom.us/j/75054262759?pwd=T29rTDVROjhPc1lwNHkzRINSdzVuUT09>
Meeting ID : 750 5426 2759, Password: viva

Indian Examiner : **Dr. Govind Sharan Dangayach**
Professor, Department of Mechanical Engineering,
Malaviya National Institute of Technology, Jaipur, Rajasthan, India.
Email: dangayach@gmail.com

Subject Expert : **Dr. Dineshsingh Thakur**
Professor, Department of Mechanical Engineering,
Defence Institute of Advanced Technology, Pune, Maharashtra, India.
E-mail: thakur@diat.ac.in

Supervisor and Convener : **Dr. Praveen A. S.**
Associate Professor, Department of Mechanical Engineering,
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science
and Technology, Chennai, Tamil Nadu, India.
E-mail: draspraveen@veltech.edu.in

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 **Excellent** and declare to have **successfully defended** his Ph.D. Oral Examination and further recommend the award of Ph.D degree in **Mechanical Engineering** of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the candidate.

Indian Examiner

Subject Expert

Supervisor & Convener