

|| Jai Sri Gurudev ||

**Sri Adichunchanagiri Shikshana Trust (Regd.)**

**Sri Jagadguru Chandrashekaranaatha Swamiji Institute of Technology**

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

(NAAC Accredited and  ISO 9001 : 2015 Certified)

P.B. No. 20, B.B. Road, Chickballapur - 562 101, Karnataka.

Ref. No. SJCIT / Ph.D/PHY/368/2019-20

Date : 11.02.2020

From,

Dr. RAJASHEKARA K M  
Research Supervisor,  
Department of Physics, VTU – RC,  
SJC Institute of Technology, Chickballapur – 562101

To,

The Registrar (Evaluation)  
Visvesvaraya Technological University,  
JnanaSangama, Bengavi – 590018

Respected Sir,

Subject: Report of Pre Ph.D. Comprehensive Viva – Voce Examination – Reg.  
Ref No: VTU/BGM/Aca/Ph.D/2019-20/237/61

With reference to the above subject, I am herewith submitting the report of the Pre – Ph.D. Viva – Voce examination of Mr. A R VENUGOPAL (USN: 1SJ16PGJ01) conducted on 11<sup>th</sup> February 2020 from 10.00AM to 11.30AM at Research Centre, Department of Physics, SJC Institute of Technology, Chickballapur - 562101.

Thanking You,

Yours faithfully

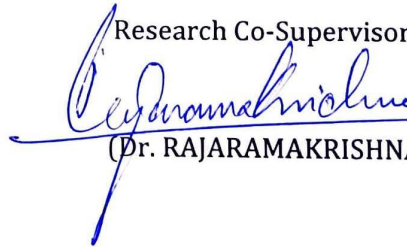
Research Supervisor

  
11/02/2020

(Dr. RAJASHEKARA K M)

Head of the Department  
Department of Physics  
S.J.C. Institute of Technology  
CHICKBALLAPUR-562 101

Research Co-Supervisor

  
11/02/2020

(Dr. RAJARAMAKRISHNA R)

Head of the Institution

  
11/02/2020

(Dr. RAVI KUMAR K M)  
Principal

S.J.C. Institute of Technology,  
Chickballapur-562101.



**Visvesvaraya Technological University**  
JnanaSangama, Belagavi 590018

**Comprehensive Viva Voce Examination Report**

<b>Name of the Candidate</b>	A R VENUGOPAL
<b>Date of comprehensive viva voce</b>	11 - 02 - 2020
<b>Date of Provisional Registration as per office order</b>	31 - 10 - 2015
<b>University Seat Number</b>	1SJ16PGJ01
<b>Branch/Discipline/Program</b>	PHYSICS
<b>Full - time / Part - time Registration</b>	PART TIME
<b>Title of the research work</b>	The spectroscopic Investigation of certain oxide glasses doped with rare earth ions as lasing Materials
<b>Research Centre</b>	DEPARTMENT OF PHYSICS, SJC INSTITUTE OF TECHNOLOGY
<b>Name of the supervisor</b>	Dr. RAJASHEKARA K M
<b>Name of the Co- supervisors</b>	Dr. RAJA RAMAKRISHNA
<b>Domain Expert-1 (External)</b>	Dr. B ERAIAH
<b>Domain Expert-2 (External/Internal)</b>	Dr. AYACHITN H
<b>Head of Research Centre/Department</b>	Dr. RAJASHEKARA K M
<b>Head of Institute/Nominee (Chairperson)</b>	Dr. K MRAVI KUMAR
<b>Comments on the Ph.D. Work: (Attach additional sheet if necessary)</b>	The candidate presented his work on the existing topic. The basic understanding of the candidate was found to be good. The work carried out by candidate has resulted into some publications
<b>Suggestions for Further Work:</b>	The candidate presented the future work in the presentation on the basis of present work and future work proposed, the examiners felt that the work is sufficient for submission of Ph.D. work, at the total it is proposed to fine tune the title of the work
<b>Any modification in the title :</b>	Yes
<b>If yes New Title Proposed is:</b>	The Structural & Optical Investigation of certain oxide glasses doped with rare earth ions.
<b>Recommendations:</b>	Recommended to continue the work for Ph.D. award with change in title of synopsis.

Signature of the supervisor

  
11/2/2020

Signature of the co-supervisor	 11/2/2020
Signature of Domain Expert-1 (External)	 11/2/2020
Signature of Domain Expert-2 (Internal)	
Signature of Research Centre Head	 11/02/2020
Signature Head of institute	 11/02/2020 Principal S.J.C. Institute of Technology Chickballapur-562101.

Principal  
S.J.C. Institute of Technology  
Chickballapur-562101.



# Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka state.

Dr. K. E. Prakash, B.E., M.E., Ph.D.  
Registrar

Phone: (0831) 2405468

Fax : (0831) 2405467

Ref.: VTU/Aca/2015-2016/A7/PHY 6718

Date: 31 OCT 2015

## OFFICE ORDER

Sub : Registration of Ph.D./M.Sc.(Engg.) by Research from June 2015  
Ref : Your application for the Ph.D. /M.Sc.(Engg.) by Research.

By the recommendations of the Admission Committee, you are hereby provisionally permitted to register for pursuing research work with the following details:

1. Name : A R Venugopal
2. Programme : Ph.D.
3. Full time /Part time : Part Time
4. Research Centre : Physics
5. College/Institute : SJCIT, Chickballapur
6. Supervisor : Dr. Rajashekhara K M
7. Co-Supervisor : Dr. R Raja Ramakrishna
8. Research Topic : "The Spectroscopic Investigation of Certain Oxide Glasses Doped with Rare-Earth Ions as Lasing Materials "
9. Approved Course work  

Sl.No.	Group	Course work
1.	14PHDRM	Research Methodology
2.	14PHDPHY009	Laser Physics and Biophysics
3.	14PHDPHY003	Quantum Mechanics
4.	14PHDPHY005	Solid State Physics, Nano Science and Technology
5.	14PHDPHY006	Material Science
6.	14PHDPHY008	Flourescence Spectroscopy and X-Ray Crystallography

This permission for registration is subject to fulfilling the following conditions

1. Letter of acceptance for the Provisional admission, duely forwarded by the Guide/ Co-guide and Head of Research Centre on or before 15<sup>th</sup> Nov 2015.
2. An undertaking to abide by the rules and regulations of the University.
3. DD of ₹ 4000/- drawn in favour of the Finance Officer VTU, Belagavi of towards requisite registration fee.

**Note:** This Provisional Registration is subject to fulfilling the conditions specified in the Clause PHD14.9 of the Regulations (Amended) Governing the Degree of Doctor of Philosophy (Ph.D. 2014)

Registrar

To,

The candidate

- Copy to,
1. The Research Centre /VTURRC
  2. The Supervisor/Co-Supervisor



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Visvesvaraya Technological University

"Jnana Sangama", Belagavi - 590 018, Karnataka State.

Phone: (0831) 2498100

Fax : (0831) 2405467

Date: 2 DEC 2019

REGISTRAR

VTU/BGM/Aca/Ph.D./2019-20/237/61

To,

A. R. Venugopal.(1SJ16PGJ01)

Dept. Of Physics.

S J C Institute of Technology,Chickballapur

Sir/Madam,

**Sub:** Extension of time for applying Comprehensive Viva-Voce reg ...

**Ref:** 1. Your request letter dated: 10/15/2019.

2. The Hon'ble Vice Chancellor approved date: 28/11/2019.

With reference to the above subject and reference (1) and (2) you are here by granted Extension of time for applying Comprehensive Viva-Voce as per the VTU Ph.D. Regulation 2014 Clause 16.1 and VTU Ph.D. Regulation 2017 Clause 17.1, the scholars have to submit the application to University within Six months from the date of completion of Course Work.

Therefore, you are permitted to Complete Comprehensive Viva-Voce on or before 28/02/2020 without fail. Further, there will be no extension of period in this regard, and such communications by the research scholars will not be considered.

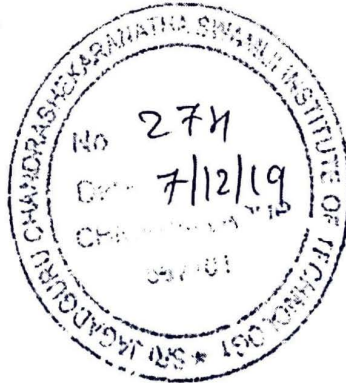
This is for your information.

Thanking you,

*Binnig*  
REGISTRAR

Copy to:

1. The Registrar (Evaluation), VTU, Belagavi for information.
2. The Principal, S J C Institute of Technology,Chickballapur Bengaluru.
3. Research Guide, Dr. Rajashekhara K. M., S J C Institute of Technology,Chickballapur
4. Office copy.



*Seen*  
*[Signature]*  
02/12/19



Visvesvaraya Technological University  
Jnana Sangama, Belagavi 590018

FORM-2

PERMISSION FOR CONDUCT OF COMPREHENSIVE VIVA VOCE

Name of Research  
Centre/College:

Department of Physics  
SJC Institute of Technology, Chickballapur

Sl. No	Doctoral Committee Composition	Name and Designation	College/Organization, Address, e-mail, Mobile
1	Head of Institute/Nominee (Chairperson)	Dr. K M Ravikumar Principal	SJC Institute of Technology, BB Road, Chickballapur – 562101, KA Ph. 9880373629 Email: principal@sjcit.ac.in
2	Head of Research Centre/Department (Member)	Dr. C S Prakash Associate Professor,	Department of Physics SJC Institute of Technology, BB Road, Chickballapur – 562101 KA Mobile No. 9980169840 Email: drcsprakash@rediffmail.com
3	Domain Expert-1 (External)- (Member)	Dr. B Eraiah Professor	Department of Physics, Gnanabharathi Campus, Bangalore University, Karnataka - 560056 Phone No: 08022961476 email: eraiah@rediffmail.com
4	Domain Expert-2 (External/Internal)- (Member)	Dr. Ayachit N H Registrar,	KLE Technological University Gokul, Hubli, KA – 580030 Mobile No: email: ayachit@crub.ac.in
5	Research Supervisor (Member Convener)	Dr. Rajashekara K M Associate Professor,	Department of Physics SJC Institute of Technology, B B Road, Chickballapur. Mobile No: 9008899060 email: km_rajaramakrishna@yahoo.co.in
6	Co- Supervisor (Member Convener)	Dr. Rajaramkrishna R Associate Professor	Department of PG Studies, The National College, Jayanagara Bangalore - 560070 Ph: 8310285980 Email: r.rajaramakrishna@gmail.com

\* Write NA wherever not applicable

The above doctoral committee has reviewed the work of Research Scholar A R VENUGOPAL with USN 1S116PGJ01 and he has completed all his course work and as per VTU Regulation-2015.Hence we seek permission from Registrar for conduction of comprehensive Viva voce.  
Please permit the same.

*Venugopal*

Signature of the Candidate

9 DEC 2019

*[Signature]*

Signature of the Guide

PERMITTED

*[Signature]*

Registrar (Evaluation)

Visvesvaraya Technological University  
BELAGAVI - 18.

*[Signature]*

*[Signature]*

Signature of the Co-Guide



|| Jai Sri Gurudev ||

Sri Adichunchanagiri Shikshana Trust (Regd.)

# S J C INSTITUTE OF TECHNOLOGY

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

NBA (CSE, ECE & ME) & NAAC Accredited, QS I-Guage (GOLD Rating) and ISO 9001:2015 Certified

P.B. No. 20, B.B. Road, Chickballapur - 562 101, Karnataka.

Ref. No. SJCIT /Gen/333/2019-20

Date 27.10.1/2020

To

The Registrar (Evaluation),  
JnanaSangama, VTU, Belagavi - 590018,  
Karnataka, India

From

Dr. Rajashekara K M  
HOD, Department of Physics and Research Center (VTU-RC)  
SJC Institute of Technology,  
Chickballapur- 562101, Karnataka, India

Respected Sir,


Subject: Comprehensive viva-voce examination of Mr. A R VENUGOPAL (1SJ16PGJ01) -Reg.  
Ref No: 1) VTU/BGM/Aca/Ph.D/2019-20/237/61 dated 02.12.2019.

With reference to the above subject, we are conducting comprehensive viva-voce examination of the research scholar **Mr. A R VENUGOPAL (1SJ16PGJ01)** on **11/02/2020 at 10 AM** in our college with the consultation of external examiners as mentioned bellow for the research topic: **"The Spectroscopic Investigations of Certain Oxide Glasses Doped with Rare - Earth Ions as Lasing Materials"**.

This is your kind information and necessary action.

Sl. No	Doctoral Committee Composition	Name and Designation	College/Organization, Address, e-mail, Contact number
1	Domain Expert-1 (External)	Dr. B Eraiah Professor	Department of Physics, Gnanabharathi Campus, Bangalore University, Karnataka - 560056 Phone No: 08022961476 email: eraiah@rediffmail.com
2	Domain Expert-2 (External)	Dr. Ayachit N H Registrar,	KLE Technological University, Gokul, Hubli, Karnataka - 580030 Mobile No: 9986249987 email: ayachit@crub.ac.in
3	Research Supervisor/Internal (Member Convener)	Dr. Rajashekara K M Associate Professor	Department of Physics, SJC Institute of Technology, P B No. 20, B B Road, Chickballapur - 562101 Mobile No: 9008899060 email: km_rajashekar@yahoo.co.in
4	Co- Supervisor (Member Convener)	Dr. Rajaramkrishna R Associate Professor	Department of PG Studies, The National College, Jayanagara, Bangalore - 560070 Ph: 8310285980 Email: r.rajjaramakrishna@gmail.com

  
Research Guide

  
Head of Department  
Department of Physics

  
Head of Institution  
Principal

Copy to 1) Registrar, VTU, Belagavi,

2) Dr. B Eraiah, Professor, BU,

3) Dr. Ayachit N H, Registrar, KLEU,

4) Dr. Rajaramkrishna R, Associate Professor, The National College, Co- Supervisor,

5) Mr. A R Venugopal (1SJ16PGJ01), Research Scholar,

6) VTU Letter dated 02.12.2019.

SJC Institute of Technology  
CHICKBALLAPUR-562 101

S.J.C. Institute of Technology  
Chickballapur - 562 101.