

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



This is to certify that

S. C. Kamate

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Mechanical Engineering Sciences

for the thesis entitled

**Exergetic, Thermal and Fuel Savings Analysis of Heat-Matched,
Bagasse-Based Cogeneration Plants in Sugar Industries**

*in recognition of the fulfillment of requirements
for the said degree*

PH
07

000135

USN : 2BA04PMM03

Given under the seal of the University



H.P. Khinchu
BELGAUM

DATE

: JAN 07, 2010

H.P. Khinchu

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELGAUM
KARNATAKA, INDIA



This is to certify that

SHIVANAGOUDA N TOPANNAVAR

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Mechanical Engineering Sciences

for the thesis entitled

*Study On Fluid Flow And Heat Transfer Characteristics Of
Biomass Fluidized Beds*

*in recognition of the fulfillment of requirements
for the said degree*

PH
13

001902

Given under the seal of the University

USN: 2BA08PMN01



VICE CHANCELLOR

BELGAUM

DATE : March 18, 2019

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that
KALLAPPA M AKKOLI

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Mechanical Engineering Sciences

for the thesis entitled

*Design and Development of Downdraft Gasifier for
Agricultural Residues*

*in recognition of the fulfillment of requirements
for the said degree*

PH 19 000602

Given under the seal of the University

USN: 2BA13PMN03



BELAGAVI

DATE : Feb 08, 2020


VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

MAHANTESH M SHIVASHIMPI

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF MECHANICAL ENGINEERING SCIENCES

for the thesis entitled

EFFECT OF COMBUSTION CHAMBER SHAPES, INJECTOR NOZZLE
GEOMETRY AND EGR ON THE PERFORMANCE AND EMISSION
CHARACTERISTICS OF SINGLE CYLINDER BIODIESEL FUELLED C.I.
ENGINE

*in recognition of the fulfillment of requirements
for the said degree*

PH 001441
19

Given under the seal of the University

USN: 2HN15PMJ02



BELAGAVI

DATE : MARCH 10, 2022


VICE CHANCELLOR

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 1290960



H.T No.: 0903PH0712

Mr. Basavaraj

S/o. Virupaxappa Madiggond

having fulfilled the academic requirements in *January - 2018*
has this day been admitted by the Executive Council to the Degree of

Doctor of Philosophy

Electrical And Electronics Engineering

Topic: "Design and Implementation of Three Phase Synchronous Back Converter".

Given under the Seal of the University

Date: 09-05-2018



[Signature]

DIRECTOR OF EVALUATION

[Signature]

REGISTRAR

[Signature]

VICE CHANCELLOR



47114109050

PC No
318000881

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

MALLIKARJUN C

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

STUDY OF RECONFIGURABLE ANTENNA FOR WIRELESS
APPLICATIONS

*in recognition of the fulfillment of requirements
for the said degree*

PH
19 001002

Given under the seal of the University

USN: 3PD15PEJ01



BELAGAVI

DATE : APRIL 03, 2021

VICE CHANCELLOR



This is to certify that
SHREEVIJAY ITTANNAVAR

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES

for the thesis entitled

**ARTIFICIAL INTELLIGENCE BASED COMPUTER AIDED DIAGNOSIS OF
BREAST CANCER DETECTION USING IMAGE PROCESSING**

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 00799

Given under the seal of the University

USN: 2KL16PEJ13



BELAGAVI

DATE : FEBRUARY 24, 2023


VICE CHANCELLOR

ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
ಕರ್ನಾಟಕ, ಭಾರತ



ಶ್ರೀ/ಶ್ರೀಮತಿ

SHREEVIJAY ITTANNAVAR

ಇವರು

FACULTY OF ELECTRICAL & ELECTRONICS ENGINEERING SCIENCES ವಿಭಾಗದಲ್ಲಿ

ARTIFICIAL INTELLIGENCE BASED COMPUTER AIDED DIAGNOSIS OF BREAST
CANCER DETECTION USING IMAGE PROCESSING

ಎಂಬ ಪ್ರಬಂಧವನ್ನು ಮಂಡಿಸಿದ್ದು

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

ಪದವಿಗೆ ಅಪೇಕ್ಷಿತವಾದ ಅಗತ್ಯಗಳನ್ನು ಪೂರೈಸಿದ್ದಾರೆಂದು ಪರಿಗಣಿಸಿ
ಮೇಲೆ ಕಾಣಿಸಿದ ಪದವಿಯನ್ನು ಅವರಿಗೆ ಪ್ರಧಾನಮಾಡಲಾಗಿದೆ

PH 00799
23

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುದ್ರೆಯೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ

USN: 2KL16PEJ13



ಬೆಳಗಾವಿ

ದಿನಾಂಕ : FEBRUARY 24, 2023

ಕುಲಪತಿ

Shivaji University, Kolhapur



the Chancellor, Vice-Chancellor and
Members of the Management Council on
the recommendation of the Academic Council certify that

Karveer Bhairu Manwade
Mother's Name - Laxmi



has passed the

Doctor of Philosophy

in Computer Science and Engineering
in faculty of Science And Technology
on 26th December, 2019.

The said degree has been conferred on him
at Kolhapur in the Summer Session
of the year two thousand twenty one.

In Testimony *whereof are set the seal of the*
university and the signatures of the Registrar and the Vice-Chancellor.

Registrar



Vice-Chancellor

Sr.No. :B- 22 :

27422

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

MAHESH HUDDAR

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

AN INTELLIGENT MULTIMODAL SENTIMENT ANALYSIS AND EMOTION
DETECTION FRAMEWORK FOR MULTIMEDIA REVIEWS

*in recognition of the fulfillment of requirements
for the said degree*

PH
19

001665

Given under the seal of the University

USN: 2GI17PEA03



BELAGAVI

DATE : MARCH 10, 2022

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

SHIVANAND MANJARAGI

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF COMPUTER & INFORMATION SCIENCES

for the thesis entitled

SECURED VERTICAL HANDOVER SYSTEM FOR 5G WIRELESS
NETWORKS

*in recognition of the fulfillment of requirements
for the said degree*

PH
23 01970

Given under the seal of the University

USN: 2BA16PEJ17

Date of Viva Voce : 26-Feb-2024



BELAGAVI

DATE : MARCH 07, 2024

VICE CHANCELLOR



This is to certify that

Manjunath Shankar Hanagadakar

has been conferred the Degree of

Doctor of Philosophy

in

Faculty of Applied Sciences (Chemistry)

for the thesis entitled

Transformation of Organic Compounds of Industrial Importance:
A Kinetic and Mechanistic Approach

*in recognition of the fulfillment of requirements
for the said degree*

PH 13 000516

Given under the seal of the University

USN: 2GI08PGM01



BELGAUM

DATE : MAY 27, 2016

VICE CHANCELLOR

VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA



This is to certify that

SHRINATH PATIL

has been conferred the Degree of

Doctor of Philosophy

in

FACULTY OF APPLIED SCIENCES (MATHEMATICS)

for the thesis entitled

ON DERIVED GRAPHS

*in recognition of the fulfillment of requirements
for the said degree*

PH 001825
19

Given under the seal of the University

USN: 2GI13PGN04



BELAGAVI

DATE : MARCH 10, 2022

VICE CHANCELLOR



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ,
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor,
 ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು
the members of the Academic Council and the Syndicate

Certify that

SHASHIKANT WALKI

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ,
on the recommendation of the Board of Examiners, admitted to the degree of

Doctor of Philosophy
(Chemistry)

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ
in recognition of the fulfilment of requirements
 ೩೨ನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.
for the said Degree at the 32nd Convocation

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 08/03/2022
 ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ / Date of Convocation : 16th June 2022

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ.
Given under the seal of the University.



Jnana Sahyadri, Shankaraghatta-577451
 Shivamogga District,
 Karnataka, India
 Date of Issue : 16/06/2022

KUS



Dr. Tanakhaiahappa
 ಕುಲಪತಿ
 Vice-Chancellor

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY ANANTAPUR
ANANTHAPURAMU - 515 002, ANDHRA PRADESH, INDIA

Adm. No. 10PH0315

Sl. No. PC 0238672



PROVISIONAL CERTIFICATE

This is to certify that Mr. **BASAVARAJ**

Son of Sri **MALLAPPA SHRIGIRI**,

has satisfied all the requirements for the award of

*** DOCTOR OF PHILOSOPHY ***

in the faculty of *** Mechanical Engineering ***

for the Thesis entitled,

" EXPERIMENTAL INVESTIGATION ON USE OF DIFFERENT
VEGETABLE OILS AND THEIR BIODIESELS ON LOW HEAT REJECTION
(LHR) ENGINE "

(Date of Viva Voce : 28.03.2017)

Tuesday, August 1, 2017.

DIRECTOR OF EVALUATION

REGISTRAR



National Institute of Technology Rourkela

Upon the recommendation of the Senate,
hereby confers the degree of

Doctor of Philosophy

on

Mur Sidramappa

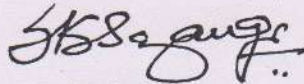
who has successfully defended the thesis entitled
*"Experimental Studies on Plate Fin
Heat Exchangers"*

and has fulfilled all other requirements
for the degree in the Department of
Mechanical Engineering

Given this day, under the seal of the Institute
at Rourkela in the Republic of India,
the 19th Day of January 2013.



Registrar



Director



Indian Institute of Science Bangalore.
Faculty of Engineering



The Council on the recommendation of the Senate of the

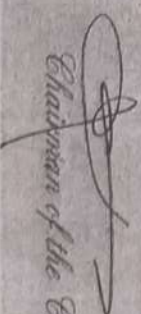
Institute hereby confers on
Kasabegoudar Veeresh Gangappa
the degree of

Doctor of Philosophy

in recognition of the research work on
**Coplanar Capacitive Coupled Probe Fed Ultra-Wideband
Microstrip Antennas**

P. Balaram
Director

28 December 2009


Chairman of the Council



This is to certify that
RAGHAVENDRA R MAGGAVI
has been conferred the Degree of
Doctor of Philosophy
in

Faculty of Electrical & Electronics Engineering Sciences

for the thesis entitled

*Development Of Automated Image Analysis System Using
Open Source Software: A Study Related To Morphometric
Analysis Of Human Sperm Head*

*In recognition of the fulfillment of requirements
for the said degree*

PH
13

001669

Given under the seal of the University



USN: 5VXL3PEN29

BELGAUM
DATE

March 18, 2019

VICE CHANCELLOR

ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯ
Gulbarga University



ಗುಲಬರ್ಗಾ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಹಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ ಮತ್ತು
ವಿದ್ಯಾ ವಿಷಯಕ ವರದಿ ಮತ್ತು ಸಂಶೋಧನಾ ಸಮಿತಿಗಳಾದ ವಾಚು

ರವಿ ಎಂ. ಯಡಹಳ್ಳಿ

ಇವರು ದಾಖಲೆ ಆನ್ ಉನ್ನತ ಪದವಿ ಪಡೆದ 2009 ರಲ್ಲಿ ಕಾಲೇಜುದುರಂದ ಇವರಿಗೆ

ಡಾಕ್ಟರ್ ಆಫ್ ಫಿಲಾಸಫಿ

(ಆಪ್ಲೈಡ್ ಎಲೆಕ್ಟ್ರಾನಿಕ್ಸ್)

ಪದವಿಯನ್ನು ಗುಲಬರ್ಗಾದಲ್ಲಿ 19ನೇ ಫೆಬ್ರವರಿ ಎರಡು ನಾಲ್ಕರ ಒಂಬತ್ತರಂದು ನೀಡಿದ್ದು
ಈ ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮುಖ್ಯ ಮತ್ತು ಕುಲಾಧಿಪತಿ ರೂಪದಲ್ಲಿ ಇದನ್ನು ಪ್ರಮಾಣೀಕರಿಸಲಾಗಿದೆ

We, the Chancellor, the Pro-Chancellor, the Vice Chancellor and Members of the
Academic Council and Syndicate of Gulbarga University certify that

Ravi M. Yadahalli

has been found duly qualified in January, 2009 for the award of the
degree of Doctor of Philosophy. Hence the degree of

DOCTOR OF PHILOSOPHY

(Applied Electronics)

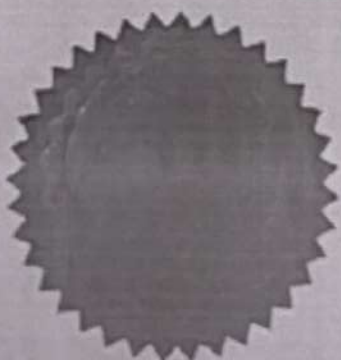
has been conferred on him/her at Gulbarga

on the 19th day of the month of February in the year Two Thousand Nine.

In testimony whereof are set the seal of the said University and the signature of the Vice-Chancellor.

Chancellor
Gulbarga

Board : 19-02-2009
Date : 19-02-2009



Q. Hulmani

ಕುಲಪತಿ
Vice-Chancellor

JUC 70008



JAIN UNIVERSITY

Decreed as Deemed-to-be University (U-3) of the UGC Act, 1956
vide MHRD Notification No. F.O.57/2007 U3(A)

*We, the Chancellor, Vice Chancellor,
Members of the Board of Management &
Academic Council of Jain University certify that*

Parashuram Baraki

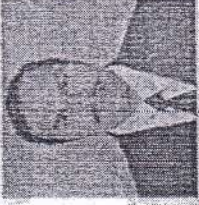
*having been examined in July-2017
with Reg. No. 10PHDCSE01
has been conferred with the Degree of*

DOCTOR OF PHILOSOPHY
in Computer Science and Engineering

*by Jain University, Bengaluru
on the 6th day of January 2018.
In Testimony whereof are set the seal of the
said University and the signature of the
said Vice Chancellor*

Date : 06.01.2018

N. Sundar
Vice Chancellor



11111111111111111111

जैन विश्वविद्यालय

गिर्जागुरुकुल विश्वविद्यालय, अहमदाबाद, 380015 के अधिनियम 3 के अन्तर्गत मान्यता प्राप्त विश्वविद्यालय के रूप में घोषित
अधिनियम संख्या: 9-57/2007-उ3(अ) के द्वारा सम्मतिविद्यालय के रूप में घोषित

हम, जैन विश्वविद्यालय के कुलाधिपति, कुलपति,
प्रबन्धन परिषद् के सदस्य एवं
शिक्षा समिति, प्रमाणित करते हैं कि

परशुराम बराकि

जिनकी पंजीयन संख्या 10PHDCSE01 है,
जुलाई- २०१७ के परीक्षोपरांत

पीएच. डी.
संगणक विज्ञान एवं अभियांत्रिकी

की उपाधि में उत्तीर्ण हुए।
जैन विश्वविद्यालय, बंगलूरु की ओर से
दिनांक ६ जनवरी २०१८ को इन्हें यह उपाधि
प्रदान की गई है, जिसके प्रमाण स्वरूप उक्त
विश्वविद्यालय की मोहर एवं
उक्त कुलपति के हस्ताक्षर अंकित हैं।

N. Sundar
कुलपति



ವಿಶ್ವೇಶ್ವರಯ್ಯ ತಾಂತ್ರಿಕ ವಿಶ್ವವಿದ್ಯಾಲಯ, ಬೆಳಗಾವಿ
VISVESVARAYA TECHNOLOGICAL UNIVERSITY, BELAGAVI
KARNATAKA, INDIA

PH
18 001745

Provisional Degree Certificate

This is to certify that Mr./Ms. SHANTAPPA G GOLLAGI

is qualified for the award of the degree of

DOCTOR OF PHILOSOPHY IN FACULTY OF COMPUTER & INFORMATION SCIENCES W.E.F. 30.10.2021

*of this University for having fulfilled the requirements for the award
of the said Degree by submitting the thesis titled :*

AN EXPLORATORY STUDY FOR SECURE SOFTWARE DEVELOPMENT LIFE CYCLE WITH SPECIFICITY
TOWARDS SMALL AND MEDIUM SOFTWARE FIRMS IN BENGALURU

with University Seat No. 1EW16PEJ04

*The degree will be conferred on him / her at the next
convocation or thereafter.*

Belagavi

Date : 02.11.2021



Reg. ——— BE

Registrar (Evaluation)

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

HYDERABAD - 500 085, TELANGANA STATE, INDIA

TS 703368



H.T No.: 0803PH0849

Ms. Shilpa Dandoti
D/o. Siddanna

having fulfilled the academic requirements in *October, 2016*
has this day been admitted by the Executive Council to the Degree of

Doctor Of Philosophy
Electronics & Communication Engineering

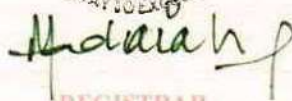
Topic : "Multiple Faults Detection and Location in FPGAs".

Given under the Seal of the University

Date: 21-04-2017




DIRECTOR OF EVALUATION


REGISTRAR


VICE CHANCELLOR



461061403029

PC No
31600468

Serial No. : C0423/1577

Register No. : 19015/10

Pondicherry University



This is to certify that

SUDHEENDRA H

has been found eligible for the degree of

DOCTOR OF PHILOSOPHY

Year **2016**

Subject **COMPUTER SCIENCE & ENGINEERING**

Title of the Thesis **"NOVEL PROMISING ALGORITHM TO AVOID
SPOOF ATTACK".**

He/She is hence admitted to the degree of Doctor of Philosophy

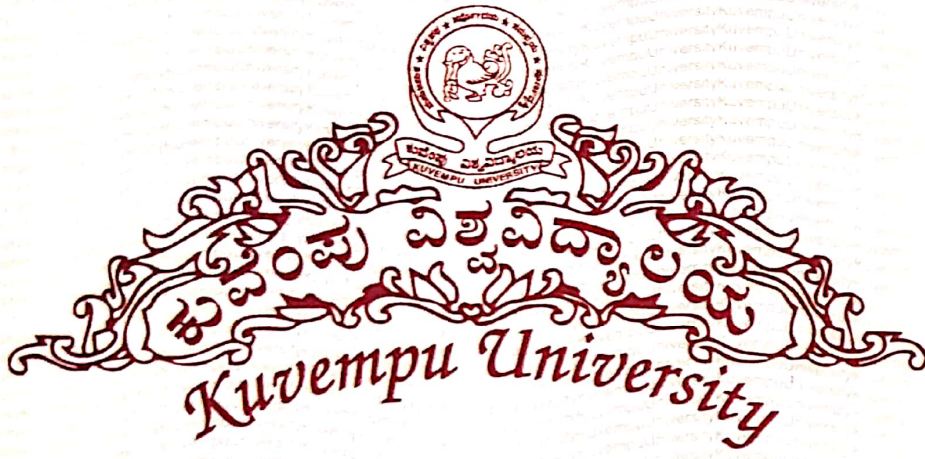
Given under the Seal of the University



M. Zambalaminel
Registrar

Puducherry
Date 04.08.2016

AB Chinn
Vice-Chancellor



ವಿಶ್ವವಿದ್ಯಾಲಯದ ಕುಲಾಧಿಪತಿ, ಸಮಕುಲಾಧಿಪತಿ, ಕುಲಪತಿ,
We, the Chancellor, the Pro-Chancellor, the Vice-Chancellor,
 ವಿದ್ಯಾವಿಷಯಕ ಪರಿಷತ್ತು ಮತ್ತು ಸಿಂಡಿಕೇಟ್ ಸದಸ್ಯರಾದ ನಾವು
the members of the Academic Council and the Syndicate

Certify that
TANUJA S B

ಇವರು ಪರೀಕ್ಷಕರಿಂದ ಪರೀಕ್ಷಿಸಲ್ಪಟ್ಟು, ಪರೀಕ್ಷಕರ ಮಂಡಳಿಯ ಶಿಫಾರಸ್ಸಿನಂತೆ,
on the recommendation of the Board of Examiners, admitted to the degree of

Doctor of Philosophy
(Industrial Chemistry)

ಪದವಿಗೆ ಅರ್ಹರಾಗಿರುತ್ತಾರೆಂದು ಪ್ರಮಾಣೀಕೃತವಾಗಿರುವುದರಿಂದ
in recognition of the fulfilment of requirements
 ಏಳನೇ ಘಟಿಕೋತ್ಸವದಲ್ಲಿ ಸದರಿ ಪದವಿಗೆ ಇವರನ್ನು ಅಂಗೀಕರಿಸಲಾಗಿದೆ.
for the said Degree at the TWENTY EIGHTH Convocation

ಅಧಿಸೂಚನೆ ದಿನಾಂಕ / Date of Notification : 23/11/2017

ಘಟಿಕೋತ್ಸವ ದಿನಾಂಕ / Date of Convocation : 02/12/2017

ವಿಶ್ವವಿದ್ಯಾಲಯದ ಮೊಹರಿನೊಂದಿಗೆ ನೀಡಲಾಗಿದೆ.

Given under the seal of the University.



Jnana Sahyadri, Shankaraghatta-577451
 Shivamogga District,
 Karnataka, India

Date of Issue : 02/12/2017

KUS



Rahul

ಕುಲಪತಿ

Vice-Chancellor