KANNUR UNIVERSITY



Folio No. 46115

Civil Station P.O Kannur 670002 Date :13-10-15

PROVISIONAL CERTIFICATE (DOCTOR OF PHILOSOPHY)

Certified that Sri. SHIJO M JOSEPH has been admitted to the Degree of Doctor of Philosophy in the Faculty of TECHNOLOGY with details as shown below.

Subject

: Computer Science

Title of the Thesis: Speech Coding: A study and Analysis of Wavelet

Energy,

Hybrid

Quantization

and

Principal

Component analysis using Discrete Wavelet Features

Date of Award

: 28-09-2015



For CONTROLLER OF EXAMINATIONS



A.R/D.R



(Abstract)

Research Guideship to Dr.Shijo M Joseph in the subject Computer Science with Dept of Information Technology, School of Information Science & Tecnology, Mangattuparamba as the Centre for Research Guideship-Granted-Orders issued.

RESEARCH DIRECTORATE

No.RD.C1/13525/R.G/2018

Civil Station.P.O. dtd:08.11.2018.

Read. 1. Application for Research Guideship dtd 27.05.2018

2. U.O.No.Acad.E1/Research/URC/09 dtd 16.7.2011

3. U.O.No.Acad.E2/Research/URC/09 dtd 23.3.2015

- As per the paper read 1st above, Dr. Shijo .M .Joseph, Manchappallil (H), Kotoor, Sreekandapuram P.O, Kannur 670631, applied for Research Guideship in Compuer Science, School, of Information Science & Technology, Dept of Information Technology, Kannur University Campus, Mangattuparamba as the Centre for Research Guidance. He is working as the Associate Professor, Department of Computer Science, M G College, Keezhoor-Iritty.
- 2. Dr. Shijo.M.Joseph was awarded Ph.D in Compuer Science in 2015 by Kannur University and his Academic credentials have been verified.
- 3. As per the paper cited as 2nd, the revised guidelines granting research guideship and status of research centre was implemented in the University w.e.f 22.6.2011.
- 4. As per the paper read 3rd above, criteria for granting research guideship in the guidelines were modified. As per the U.O. "The applicant for research guideship should have published at least two papers in the subject concerned, after the award of the Degree of Doctor of Philosophy in the peer reviewed journal(s)."
- 5. The application for research guideship submitted by Dr. Shijo.M.Joseph has been scrutinized as per the revised guidelines, for granting guideship and the application is found to be in order. His application has been recommended by the Dean of Faculty of Science, Kannur University. He has submitted all documents and remitted the requisite fee in the University fund

- 6. The Hon'ble Vice Chancellor, having considered the matter in detail, has accorded sanction to grant research guideship to Dr. Shijo.M. Joseph in the subject Compuer Science with Dept of Information Technology, School of Information Science and Technology, Mangattuparamba as the Centre for Research guidance.
- 7. The Research Guide will ensure that the research scholars under his guidance shall comply with the Regulations of the University and UGC regarding research.
- 8. The Research Guide shall follow the Rules, Regulations and Guidelines applicable and the U.O. issued by the University from time to time on the matter.
- 9. A Research Supervisor/Co-Supervisor who is a Professor cannot guide more than eight(8) Ph.D scholars. An Associate Professor can guide six (6) Ph.D scholars and an Assistant Professor can guide four(4) Ph.D scholars.
- 10. The Research Guide should submit annual declaration on the total number of research scholars working under his guidance.
- 11. Teachers of the University Departments or Affiliated colleges in the Government/Aided sectors, who are recognized as Research Guides by Kannur University are not permitted to register research scholars under them from other Universities/institutions without obtaining No Objection Certificate from this University.
- 12. The Research Guide is not permitted to supervise the research activities of any of his immediate relatives.
- 13. The Research Guide will intimate the University his transfer/retirement/relief of duties from their present institution in time.
- 14. The Research Guide shall regularly monitor the research activities of the research scholars working under his guidance and report the matter to the University once in six months in the case of part time scholars and once in three months in the case of full time scholars.
- 15. The Research Guide is bound to follow the rules, regulations and guidelines applicable and issued by the University and UGC from time to time, failing which the University reserves the right to cancel the research guideship granted to him.
- 16. The Research Guideship will automatically be cancelled if no research scholars are registered under a Research Guide after four years from the date of recognition granted to him as a Research Guide.
- 17. If the Research Guide feels that Joint supervision is necessary for the research work having inter-disciplinary/multi-disciplinary nature, the service of a Co-Guide may be made available, subject to the condition that the Research Guide has requested for the same, specifying the name of Co-Guide and the approval of the Doctoral Committee.

18. Orders are issued accordingly.

Sd/Deputy Registrar(Research Directorate)
for DIRECTOR

To

Dr.Shijo M Joseph

Copy to: The Head of the Research Centre

RD.B

SF/DF/FC

Forwarded/By Order

Section Officer

Scanned with OKEN Scanner



FACULTY OF COMMERCE & MANAGEMENT STUDIES

The Syndicate of Kannur University hereby makes known that

SWARUPA R

has been admitted to the degree of

Doctor of Philosophy

ke/she having been certified by duly appointed Examiners to be qualified to receive the same.

Subject : Commerce

Title of the Thesis : Strategic Alternatives for Indigenous Industries (A Micro study of Food Processing Industries in Kerala)

> Given under the seal of the University. Date of Award: 24 June 2009

Kannur University

01 June 2010

mult.

VICE-CHANCELLOR

Nº 022260

Date

KANNUR UNIVERSITY

(Abstract)

Research Guideship in Commerce to Dr.Swarupa R with the Department of Commerce, Stee Narayana College, Kannur as Centre of Research Guidance—Granted—Orders issued

Academic Branch

No.Acad.E2/3304/RG/14

Dated, 24/04/2014.

Read:- 1. Application dt.22/03/2014 for Research Guideship submitted by Dr.Swarupa R.

- Ph.D Degree Certificate issued by the University of Kannur on 01/06/2010.
- 3. U.O.No.Acad.E1/Research/URC/09 dt.16/7/2011.

- As per the paper read first above, Dr.Swarupa R, Associate Professor, Department of Commerce, Mahatma Gandhi College, Iritty, Kannur has applied for research guideship in Commerce with the Department of Commerce, Sree Narayana College, Kannur as her Centre of Research Guidance.
- Dr.Swarupa R was awarded Ph.D Degree in Commerce in the month of June 24th 2009, by the University of Kannur, vide the paper read second above.
- As per the paper read third, the revised guidelines granting research guideship and status of research centre was implemented in the University with effect from 22-6-2011.
- 4. The application for research guideship submitted by Dr.Swarupa R is in order as per the revised guidelines granting research guideship.
- After considering the matter in detail, the Vice-Chancellor has ordered to grant research guideship in Commerce to Dr.Swarupa R, with the Department of Commerce, Sree Narayana College, Kannur as her Centre of research guidance.
- The Research Guide will ensure that the research scholars under his/her guidance shall comply with the Regulations of the University and UGC regarding research.
- The Research Guide shall follow the Rules, Regulations and Guidelines applicable and issued by the University from time to time on the matter.
- 8. The Research Guide of Kannur University is not to have more than eight Research Scholars under his/her guidance at a time including both the part-time and full time research scholars in this University and other University(ies).
- The Research Guide of Kannur Unviersity should submit annual declaration on the total number of research scholars working under his/her guidance.
- 10. Teachers of the University Departments or Affiliated colleges in the Government/Aided sector, who are recognized as Research Guides by Kannur University are not permitted to register

- Research Scholars from other Unviersities/Institutions without obtaining No Objection Certificate from this University
- 11. The Research Guide is not permitted to supervise the research activities of any of his/her immediate relatives.
- 12. The Research Guide will intimate the University his /her transfer/retirement/ relief of duties from the present institution in time.
- 13. The Research Guide shall regularly monitor the research activities of the research scholars working under his/her guidance and report the matter to the University once in six months in the case of part-time scholars and once in three months in the case of full time scholars. He/she should see that each of the Research scholars working under his/her guidance present a work in 'Work in progress seminar' at every six months and report the same to the University through the Head of the Research Centre.
- 14. The Research Guide is bound to follow the rules, regulations and guidelines applicable and issued by the University and UGC from time to time , failing which the University reserves the right to cancel the Research Guideship granted to him/her.
- 15. The Research Guideship will automatically be cancelled, if no research scholars are registered under a Research Guide after four years from the date of recognition granted to him/her as a Research Guide.
- 16. If the Research Guide feels that joint supervision is necessary for the research work having interdisciplinary/multidisciplinary nature, the service of Co-Guide may be made available, subject to the condition that the Research Guide has requested for the same specifying the name of Co-Guide and the Doctoral Committee approve the request.
- 17. Orders are issued accordingly.

Sd/-

Deputy Registrar(Academic)
For Registrar

To

Dr.Swarupa R,
Associate Professor,
Department of Commerce,
Mahatma Gandhi College,
Iritty, Kannur.

Copy to:

- The Head of the Dept.of Commerce, Sree Narayana College, Kannur.
- 2. EG.1
- 3. SF/DF/FC

Forwarded/By order

Section Officer



FACULTY OF COMMERCE AND MANAGEMENT STUDIES

The Syndicate of Kannur University hereby makes known that

REHIN K R

has been admitted to the degree of

Doctor of Philosophy

he/She having been certified by duly appointed Examiners to be qualified to receive the same

Subject : Management Studies

Title of the Thesis : Human Resource Development Practices and Quality of Patient Care at Government Hospitals in Kerala.

Given under the seal of the University.

Date of Award: 10 February 2015



28 July 2015

VICE-CHANCELLOR

Date



KANNUR UNIVERSITY

(Abstract)

Research Guideship to Dr. Rehin K R in the subject Management Studies with Department of Management Studies, Thalassery Campus, Palayad as the Centre for Research guidance- Granted - Orders issued.

RESEARCH DIRECTORATE

RD A3/6482/R.G/2019

Civil Station.P.O. dtd: 08.04.2019.

Read. 1. Application for Research Guideship dtd 16.03.2019.

2. U.O.No.Acad.E1/Research/URC/09 dtd 16.7.2011.

3. U.O.No.Acad.E2/Research/URC/09 dtd 23.3.2015.

- As per the paper read 1st above, Dr. Rehin K R, "Chaand", Melmuringoli P.O, Peravoor, Kannur- 670 673, applied for Research Guideship in Management Studies with Department of Management Studies, Thalassery Campus, Palayad as the Centre for Research Guidance. He is working as the Assistant Professor, Dept. of Commerce and Management Studies, Mahatma Gandhi College, Iritty.
- 2. Dr. Rehin K R was awarded Ph.D in Management Studies in the year 2015 by Kannur University and his Academic credentials have been verified.
- 3. As per the paper cited as 2nd, the revised guidelines granting research guideship and status of research centre was implemented in the University w.e.f 22.6.2011.
- 4. As per the paper read 3rd above, criteria for granting research guideship in the guidelines were modified. As per the U.O. "The applicant for research guideship should have published at least two papers in the subject concerned, after the award of the Degree of Doctor of Philosophy in the peer reviewed journal(s)."
- 5. The application for research guideship submitted by Dr. Rehin K R has been scrutinized as per the revised guidelines, for granting guideship and the application is found to be in order. His application has been recommended by the Chairman, Board of Studies of Management studies, Kannur University. He has submitted all documents and remitted the requisite fee in the University fund.
- 6. The Hon'ble Vice Chancellor, having considered the matter in detail, has accorded sanction to grant research guideship to *Dr. Rehin K R* in the subject *Management Studies* with Department of Management Studies, Thalassery Campus, Palayad as the Centre for Research guidance.
- 7. The Research Guide will ensure that the research scholars under his guidance shall comply with the Regulations of the University and UGC regarding research.
- 8. The Research Guide shall follow the Rules, Regulations and Guidelines applicable and the U.O. issued by the University from time to time on the matter.

- 9. A Research Supervisor/Co-Supervisor who is a Professor cannot guide more than eight(8) Ph.D scholars. An Associate Professor can guide six(6) Ph.D scholars and an Assistant Professor can guide four(4) Ph.D scholars.
- 10. The Research Guide should submit annual declaration on the total number of research scholars working under his guidance.
- 11. Teachers of the University Departments or Affiliated colleges in the Government/Aided sectors, who are recognized as Research Guides by Kannur University are not permitted to register research scholars under them from other Universities/institutions without obtaining No Objection Certificate from this University.
- 12. The Research Guide is not permitted to supervise the research activities of any of his immediate relatives.
- 13. The Research Guide will intimate the University his transfer/retirement/relief of duties from their present institution in time.
- 14. The Research Guide shall regularly monitor the research activities of the research scholars working under his guidance and report the matter to the University once in six months in the case of part time scholars and once in three months in the case of full time scholars.
- 15. The Research Guide is bound to follow the rules, regulations and guidelines applicable and issued by the University and UGC from time to time, failing which the University reserves the right to cancel the research guideship granted to him.
- 16. The Research Guideship will automatically be cancelled if no research scholars are registered under a Research Guide after four years from the date of recognition granted to him as a Research Guide.
- 17. If the Research Guide feels that Joint supervision is necessary for the research work having inter-disciplinary/multi-disciplinary nature, the service of a Co-Guide may be made available, subject to the condition that the Research Guide has requested for the same, specifying the name of Co-Guide and the approval of the Doctoral Committee.
- 18. Orders are issued accordingly.

Sd/-DEPUTY REGISTRAR

(Research Directorate)

for **DIRECTOR**

Dr. Rehin K R

To

Copy to: 1. The Head of the Research Centre

2. RD.B

3. SF/DF/FC

Forwarded/By Order

Section Officer



"Established by Government of Central Provinces Education Department by Notification No. 513 dated the 1st of August, 1923 & presently a State University governed by Maharashtra Public Universities Act, 2016 (Mah. Act No. VI of 2017)"

Re-accredited 'A' Grade by NAAC



Poctor of Philosophy (विज्ञान व तंत्रज्ञान आचार्य) (Faculty of Science and Technology)

This is to certify that Shri Jithesh K. having been found to be duly qualified on examination of the thesis entitled "Information hiding through innovative and highly secured digital image steganography with large payload" was admitted to the degree of Boctor of Ahilosophy (विज्ञान व तंत्रज्ञान आचार्य) in the Faculty of Science and Technology in the Subject of Computer Science in this University in the year 2019.

Nagpur Dated: 18-1-2020 Vice-Chancellor



(Abstract)

Recognition as Research Supervisor - Dr.Jithesh K in the subject Computer Science with Dept.of Computer Science, Mary Matha Arts and Science College, Mananthavady as the Centre for Research Supervision- Granted - Orders issued.

RDC-D

RD/D3/3651/RG/CS/2022

Kannur, Dated: 20.02.2023

Read:-1. Application for Recognition as Research Supervisor dated 20.06.2022 received from Dr.Jithesh K

- 2. U.O.No.RD C1.2136/Attendance and Leave/2018 dated 03.07.2019.
- 3. U.O.No.RD/DIRECTOR(RD)/4889/2019 dated 11.02.2020.
- 4. Circular No. RD/SO RD-D/1077/2022 dated 21.02.2022

- 1. As per the paper read 1st above, Dr. Jithesh K, Jisha Bhavan, Kotheri, Mattanur, Kannur District, 670702 (Pin) applied for recognition as Research Supervisor in Computer Science with Dept.of Computer Science, Mary Matha Arts and Science College, Mananthavady as the Centre for Research Supervision. He is working as Associate Professor, Dept. of Computer Science, Mahathma Gandhi College, Iritty.
- Dr.Jithesh K was awarded Ph.D. in Computer Science in the year 2019 by Rashtrasant Tukadoji Maharaj Nagpur University .
- 3. As per the paper cited 2nd above, the University has revised its regulations for Ph.D Progamme and the award of Degree of Doctor of Philosophy, named as "Kannur University Minimum Standards and Procedures for the award of Ph. D Degree Regulations, 2018".
- 4. As per the paper cited 3rd above, the University amended "Kannur University Minimum Standards and Procedures for the award of Ph. D Degree Regulations, 2018".
- 5. As per the paper cited 4th above, research papers to be checked for similarity as per plagiarism rules of the university at the Dr. HERMANN GUNDERT Central Library of Kannur University with a fee of Rs 500/- per research paper & Central Library will issue a Similarity Check Certificate with permissibility limit fixed up to 10% using Turnitin Software. Dr.Jithesh K has submitted a Similarity Check Certificate issued by Dr.Hermann Gundert Central Library.
- 6. As per revised guidelines any regular teachers of the University Department / Approved Research Centre with at least five research publications in refereed journals for Professors and two research publications for regular Associate/ Assistant Professors within permissible limits of similarity ascertained by using software recognised by Kannur University as per

- clauses 6.1 and 6.2 of UGC M.Phil /Ph.D regulations 2016, irrespective of the date of publication of research papers / articles in the journals.
- 7. The Chairperson, Department research Committee in Computer Science, Kannur University (The Head of Department of Information Technology, Kannur University, Mangattuparamba Campus) has certified that the research papers authored by Dr. Jithesh K, which is enclosed by him with the application for recognition as a Research Supervisor, under Kannur University have been published in the UGC Approved list of journals/ Peer reviewed in the subject/ discipline Computer Science, after the award of the Degree of Doctor of Philosophy and has recommended to consider the research papers submitted by him eligible for Research Supervisor in the subject Computer Science under the University.
- 8. The Director, Research and Development Cell has recommended to consider the research papers submitted by Dr.Jithesh K eligible for Research Supervisor in the subject Computer Science under the University and also recommended Dr.Jithesh K for nomination as Research Supervisor in Computer Science till 31.05.2034
- 9. The application for recognition as Research Supervisor submitted by Dr.Jithesh K has been scrutinized as per the UGC 2016 regulation for granting guide ship and the application is found to be in order. He has submitted all documents and remitted the requisite fee in the University fund (vide SB Collect Reference Number DU12601769 dated 20.12.2021)
- 10. Vice Chancellor, having considered the matter in detail, has accorded sanction to Dr.Jithesh K being granted recognition as Research Supervisor in the subject Computer Science with Dept.of Computer Science, Mary Matha Arts and Science College, Mananthavady as the Research Centre subject to clarification sought from UGC on granting Guideship as per the notification issued for Guideship on the basis of the eligibility criteria fixed in the UGC regulation 2016 in the light of the notification of UGC Ph.D regulation 2022 issued on 07.11.2022.
- 11. A Research Supervisor/Co-Supervisor who is a Professor at any given point of time, shall guide not more than eight (8) Ph. D scholars. An Associate Professor as Research Supervisor shall guide up to a maximum of six (6) Ph. D scholars and an Assistant Professor as Research Supervisor shall guide up to a maximum of four (4) Ph D scholars.
- 12. The Research Supervisor should submit annual declaration on the total number of research scholars working under his/her guidance before 31st of January every vear.
- 13. Allocation of research supervisor for a selected research scholar shall be decided by the Department Research Committee concerned depending on the number of scholars per research supervisor, available specialization among the research supervisors and research interests of the scholars as indicated by them at the time of interview.
- 14. Supervisors who move to other Universities/ Colleges/ Institution or transferred to colleges not affiliated to Kannur University/ institutions outside the jurisdiction of Kannur University are permitted to supervise the existing candidates. They are not permitted to admit new candidates from Kannur University unless they take appointment/get transferred to a recognized research Centre in his/ her discipline affiliated to Kannur University.

- 15. A full time regular teacher, satisfying all conditions stipulated in clause 6.1 of Kannur University Minimum Standards and Procedures for the award of Ph. D Degree Regulations, 2018 and working in a department of a College/Centre affiliated to the University which is not a recognized research Centre in his/her discipline, and working as a Research Supervisor at a nearby research Centre/ Department of the University in the same discipline, shall be permitted to continue subject to the approval of the Department Council.
- 16. The recognition given to a researcher as Supervisor shall be valid till his/her retirement.
- 17. If a research student under a Research Supervisor submit his/her Ph.D. thesis for adjudication, the date of submission of Ph.D thesis will be considered as date of occurrence of vacancy under that Research Supervisor in order to avoid the delay in granting registration for new research scholar.
- 18. The Research Supervisor is bound to follow the rules and regulations applicable and issued by the University and UGC from time to time, failing which the University reserves the right to cancel the recognition as research Supervisor.
- 19. Only a full time regular teacher of the University/ constituent College/ Research Institute can act as a supervisor. External supervisors are not allowed. However, Co- Supervisor can be allowed in inter- disciplinary areas from the same or other departments of the same institute or from other related institution with the approval of the Department Research Committee.
- 20. Orders are issued accordingly.

Sd/-

Dr. Anil R DIRECTOR (Research and Development Cell)

For Director

To:

Dr.Jithesh K

Copy To: 1. Head of the Research Centre

2. RDC B/RDC C/AR RDC

3. SF/DF/FC

Forwarded / By Order

SECTION OFFICER