

Medical College P.O., Thiruvananthapuram-695011, IndiaFax: +91 471 2442539Phone: +91 471 2442541Website: www.rcctvm.orgE-mail: webmaster@rcctvm.gov.in

08/08/2019

CERTIFICATE

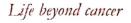
This is to certify that the project entitled "POPULATION ATTRIBUTABLE FRACTION FOR PHARYNGEAL AND LARYNGEAL CANCER DUE TO TOBACCO USE" is a record of original work done by DONA ANTONY under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

eyansma Mathees

Dr. Aleyamma Mathew

Professor & Head Division of Cancer Epidemiology & Biostatistics

An autonomous centre sponsored for Cancer Treatment & Research by Government of India and Government of Kerala. Donations to this Centre are exempt under Section 80G of the I.T. Act, 1961.



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08/08/2019

CERTIFICATE

This is to certify that the project entitled "ANTHROPOMETRIC FACTORS, BODY SIZE AND BREAST CANCER RISK BY MENOPAUSAL STATUS: A CASE-CONTROL STUDY" is a record of original work done by DONA TOMS under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

PuttoSaralyengt Dr. Preethi Sara George

Additional Professor in Biostatistics Division of Cancer Epidemiology & Biostatistics

An autonomous centre sponsored for Cancer Treatment & Research by Government of India and Government of Kerala. Donations to this Centre are exempt under Section 80G of the I.T. Act, 1961.

Life beyond cancer

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Dr. S. R. Chandrasekhar Institute of Speech and Hearing

(A Unit of Bangalore Speech & Hearing Trust) (Aided by Lion's Club of Bangalore East)

(Affiliated to Bangalore University, Recognized by Rehabilitation Council of India, New Delhi and NAAC Accredited) Hennur Road, Lingarajapuram, Bengaluru 560 084

Ph: 080-2546 0405 / 2547 0037 / 2546 8470
Mob: 88617 87315

Email: dr.srcish@gmail.com
Web: www.speechear.org

CERTIFICATE

This is to certify that this dissertation entitled "Text mining methods and Visualization Techniques" of the candidate Mr. Josemon Achenkunju for the degree of Master of Science in Biostatistics submitted to the faculty of science of Mahatma Gandhi University, Kottayam, is a record of his research work done under the guidance of Ms. Anu Babu, Assistant Professor and Biostatistician, Department of B. N. Gupta Research Centre, Dr. S. R. Chandrasekhar Institute of Speech and Hearing, Bengaluru, Karnataka.



Ms. Anu Babu

Assistant Professor and Biostatistician,

B N Gupta Research Centre,

Dr. S. R. Chandrasekhar Institute of Speech and Hearing, Bengaluru, Karnataka



Dr. S. R. Chandrasekhar Institute of Speech and Hearing

(A Unit of Bangalore Speech & Hearing Trust) (Aided by Lion's Club of Bangalore East)

(Affiliated to Bangalore University, Recognized by Rehabilitation Council of India, New Delhi and NAAC Accredited) Hennur Road, Lingarajapuram, Bengaluru 560 084 • Ph: 080-2546 0405 / 2547 0037 / 2545 8470 • Mob: 88617 87315 • Email: dr.srcish@gmail.com • Web: www.speechear.org

CERTIFICATE

This is to certify that this dissertation entitled "Random Forest Vs Logistic Regression: A Classification Approach" of the candidate Ms. Lakshmi. S for the degree of Master of Science in Biostatistics submitted to the faculty of science of Mahatma Gandhi University, Kottayam, is a record of her research work done under the guidance of Ms. Anu Babu, Assistant Professor and Biostatistician, Department of B. N. Gupta Research Centre, Dr. S. R. Chandrasekhar Institute of Speech and Hearing, Bengaluru, Karnataka.

Ms. Anu Babu Assistant Professor and Biostatistician, B N Gupta Research Centre, Dr. S. R. Chandrasekhar Institute of Speech and Hearing, Bengaluru, Karnataka

August 30, 2019



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08/08/2019

CERTIFICATE

This is to certify that the project entitled "TOBACCO SMOKING PREVALENCE AND ITS RISK FOR CANCER IN KERALA" is a record of original work done by MERLIN MARY JOY under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University. Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

Preti Sara George

Additional Professor in Biostatistics Division of Cancer Epidemiology & Biostatistics

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आई की एम आर राष्ट्रीय यहमा अन्समान संस्थान रवारण्य अनुरामन विभाग जारण्य आर परिवार कल्याण मजलय भारत सरकार

ICMR - National Institute for Research in Tuberculosis Department of Health Research, Ministry of Health and Family Welfare, Government of India

Dr. C. Ponnuraja, Ph.D., Scientist - E & Head **Dept. of Statistics**

ICM2 NIRT

July 31, 2019

CERTIFICATE

HE HAHATHA

This is to certify that the project entitled "A Comparison of Survival Models for the Analysis of Tuberculosis Data" is a record of original work done by Ms. Ansu Baby in partial fulfilment of the requirements for the Degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam, Kerala. She has done the work in the Department of Statistics, National Institute for Research in Tuberculosis (NIRT), ICMR, Chennai from 31st May to 31st July, 2019 under my guidance. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other University.

Dr. C. PONNURAJA



DEPT OF STATISTICS NATIONAL INSTITUTE FOR RESEARCH IN TUBERCULOSE INDIAN COUNCIL OF MEDICAL RESEARCH CHENNAI-600 031.

ि मेयर सल्यम्ति रोड, चटपुट चेन्नई 1000 000, भारत

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08/08/2019

CERTIFICATE

This is to certify that the project entitled "RISK ESTIMATION IN CANCER SURVIVAL USING MULTI-STATE MODELS" is a record of original work done by AMALANDHU AJI under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University. Kottayam. I further certify that the project work has not been previously formed the basis for the award of any other Degree or Diploma or other similar title to any candidate of this or any other university.

Vagal

Dr. Jagathnath Krishna K M

Assistant Professor in Biostatistics Division of Cancer Epidemiology & Biostatistics

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CERTIFICATE

This is to certify that the project entitled "POPULATION ATTRIBUTABLE FRACTION FOR LUNG CANCER DUE TO TOBACCO USE" is a record of original work done by ANN ELIZABETH THOMAS under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

Aleyenna Mathew

Dr. Aleyamma Mathew

Professor & Head Division of Cancer Epidemiology & Biostatistics



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CERTIFICATE

This is to certify that the project entitled "JOINT FRAILTY MODEL FOR RECURRENT AND TERMINAL EVENTS IN CANCER SURVIVAL" is a record of original work done by ANTU MARIA ANTO under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not been previously formed the basis for the award of any other Degree or Diploma or other similar title to any candidate of this or any other university.

Vagel

Dr. Jagathnath Krishna K M

Assistant Professor in Biostatistics Division of Cancer Epidemiology & Biostatistics



राष्ट्रीय जानपदिक रोग विज्ञान संस्थान

ICMR - NATIONAL INSTITUTE OF EPIDEMIOLOGY Dept. of Health Research, Ministry of Health & Family Welfare, Govt. of India



WHO COLLABORATING CENTRE FOR LEPROSY RESEARCH AND EPIDEMIOLOGY

No.R-127, 3rd Avenue, Second Main Road, Tamil Nadu Housing Board Ayapakkam, Chennai - 600 077, India.

CERTIFICATE

This is to certify that the project entitled "Multilevel Analysis of Determinants Associated with Stunting, Wasting and Underweight among Children Under-Five Years in India" is a record of original work done by Ms. Greeshma Maria Jose in partial fulfillment of the requirements for the Degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam, Kerala. She has done work in National Institute of Epidemiology – ICMR, Chennai from May 27 to August 9, 2019 under my guidance. I further certify that the project work has not previously formed the basis of award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

Dr. Saravana Kumar Scientist - B , ICMR - National Institute of Epidemiology Chennai.

: bills@nie.gov.in establishment@nie.gov.in accounts@nie.gov.in

Phone : S.A.O : 044 - 2682 1600 Estt : 044 - 2613 6260

Phone : Transport : 044 - 2613 6268 Director's office : 044 - 2613 6204 icma NIRT



आहे सी एम आर राष्ट्रीय कामा अनुरत्वान सरवान स्वारक्षा अनुरत्वान विन्तम त्वारका और परिवार कल्याण मंत्रात्वय भारत सरकार

ICMR - National Institute for Research in Tuberculosis Department of Health Research, Ministry of Health and Family Welfare, Government of India

Dr. Adhin Bhaskar, Ph.D., Scientist – B Dept. of Statistics

July 31, 2019

CERTIFICATE

This is to certify that the project entitled "A Count Regression Approach to Predict the Spousal Harms on their Wife in Tamil Nadu" is a record of original work done by Ms. Elizabeth Varghese in partial fulfilment of the requirements for the Degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam, Kerala. She has done the work in the Department of Statistics, National Institute for Research in Tuberculosis (NIRT), ICMR, Chennai from 31st May to 31st July, 2019 under my guidance. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other University.





PSG Institute of Medical Sciences & Research

Post Box No. 1674, Peelamedu, Coimbatore 641004, INDIA Phone : 91422-2598822, 2570170 • Fax: 91422-2594400 E-mail : psgmedschool@gmail.com Website:www.psgimsr.ac.in

CERTIFICATE

This is to certify that the project work entitled "Socio Demographic and Clinical Correlates of Erectile Dysfunction (ED) Among Type 2 Diabetic Mellitus Patients- A Cross Sectional Study" is a record of original work done by Arjun V Sajeev under my guidance in partial fulfillment of the requirements for the degree of Master Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associate ship or Fellowship or other similar title to any other candidate of this or any other university.

minethed Dr. Anil C Mathew

Professor of Biostatistics Department of Community Medicine PSG Institute of Medical Science & Research Coimbatore, Tamil Nadu

Forwarded by Dr. K.K. Jose Head of the department of Biostatistics St. Thomas College, Palai, Kerala Dr. Anil C. Mathew Ph.D Professor of Biostatistics Department of Community Medicine PSG Institute of Medical Sciences and Research Coimbatore 641 004 MALANKARA ORTHODOX SYRIAN CHURCH MEDICAL COLLEGE HOSPITAL (AN INSTITUTE UNDER THE MALANKARA ORTHODOX SYRIAN CHURCH MEDICAL MISSION) KOLENCHERY, ERNAKULAM DISTRICT, KERALA, INDIA. PIN-682311, Telephone: 0484-2760251, 3055555 3055666, Fax: 2760409, Gram: "MISSIONHOS", E-mail: mmmhn@moscmm.org, www.moscmm.org

CERTIFICATE

This is to certify that the project entitled "Outcomes of Neonates Born to Mothers with Premature Rupture of the Membrane: A Meta-Analysis" is a record of original work done by Ms. Ivy Mathew, Department of Biostatistics, St Thomas College, Pala during the year 2017-2019 towards the partial fulfillment of requirements for the award of the Degree of Master of Science in Biostatistics from Mahatma Gandhi University, Kottayam, Kerala. She has done the work in the Division of Biostatistics, MOSC Medical College, Kolenchery from 25th May 2019 to 8th August 2019, under my guidance. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

Guide ALESH M KARUN, PhD Assistant Protessor In Charge Division of Biostatistics M O S C Medical College Dr. Kalesh M Karun, PhD Kochi 682 311 Kerala, India Assistant Professor Division of Biostatistics 1OSC Medical College, Kolenchery



ST. JOHN'S NATIONAL ACADEMY OF HEALTH SCIENCES

ST. JOHN'S RESEARCH INSTITUTE

(A Unit of CBCI Society for Medical Education)

Sarjapur Road Bangalore - 560 034, INDIA. Tel : +91-80-4946 7000 E-mail: deansoffice@sjri.res.in

02/08/2019

CERTIFICATE

This is to certify that the project entitled "Association of household air pollution and related health outcomes in National Family Health Survey-4: an exploratory data analysis" is a record of original work done by Ms. Josna Jose in partial fulfillment of the requirements for the Degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam, Kerala. She has done the work in the Division of Epidemiology and Biostatistics, St. John's Research Institute, Bangalore from May 27 to August 2, 2019 under my guidance. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.



Dr. TINKU THOMAS Professor & Head Department of Biostatistics St. John's Medical College Bengaluru - 560 034

Professor&Head

Dept.of Biostatistics

Dr. TINKU THOMAS

St.John's Medical College



PSG Institute of Medical Sciences & Research

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CERTIFICATE

This is to certify that the project work entitled "Internet Addiction Among Medical And Health Science Students and its Association With Usage Patterns - A Cross Sectional Study in South India" is a record of original work done by Jithin Thomas under my guidance in partial fulfillment of the requirements for the degree of Master Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associate ship or Fellowship or other similar title to any other candidate of this or any other university.

Voal

Forwarded by Dr. K.K. Jose Head of the department of Biostatistics St. Thomas College, Palal, Kerala

prumether? Dr. Anll C Mathew Professor of Biostatistics Department of Community Medicine PSG Institute of Medical Science & Research Coimbatore, Tamil Nadu

> Dr. Anil C. Mathew Ph.D. Professor of Biostatistics Department of Community Medicine PSG Institute of Medical Sciences and Research Coimbatore - 641 004



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08/08/2019

CERTIFICATE

This is to certify that the project entitled "ALCOHOL PREVALENCE AND ITS RISK FOR CANCER IN KERALA" is a record of original work done by LEONY TOM under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

eyanna Matters

Dr. Aleyamma Mathew

Professor & Head Division of Cancer Epidemiology & Biostatistics

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Life beyond cancer

National Institute of Mental Health & Neuro Sciences

(Institute of National Importance), Bangalore – 560 029 राष्ट्रीय मानसिक स्वास्थ्य एवं तंत्रिका विज्ञान संस्थानं, (राष्ट्रीय महत्व का संस्थान), बेंगलूर - 560029 ठಾಷ್ಟ್ರೀಯ ಮಾನಸಿಕ ಆರೋಗ್ಯ ಮತ್ತು ನರ ವಿಜ್ಞಾನ ಸಂಸ್ಥೆ, (ರಾಷ್ಟ್ರೀಯ ಪ್ರಾಮುಖ್ಯತಾ ಸಂಸ್ಥೆ), ಬೆಂಗಳೂರು – 560029

Ref:

Date:

CERTIFICATE

This is to certify that the project work entitled 'STATISTICAL METHODS FOR EVIDENCE SYNTHESIS IN BEHAVIOURAL RESEARCH' is a record of original work done by Mr. Jophil Jacob Joy in partial fulfillment of the requirements for the Degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam, Kerala. He has completed the work at the Department of Biostatistics, National Institute of Mental Health and Neuro Sciences (NIMHANS), Bengaluru, during June to August 2019 under my guidance. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this any other university.

Bengaluru

Dr. B. Binukumar (GUIDE)

Dr. B. BINUKUMAR, PhD. Associate Professor Department of Biostatistics NIMHANS, Bengaluru - 560 029

Department of Blostatistics National Institute of Mental Health & Neure Sciences Bangatore 560 029



Dr. S. R. Chandrasekhar Institute of Speech and Hearing

(A Unit of Bangalore Speech & Hearing Trust) (Alded by Lion's Club of Bangalore East)

(Affiliated to Bangalore University, Recognized by Rehabilitation Council of India, New Delhi and NAAC Accredited). Hennur Road, Lingarajapuram, Bengaluru 560 084 • Ph: 080-2546 0405 / 2547 0037 / 2546 8470 • Mob: 88617 87315 • Email: dr.stcish@gmail.com • Web: www.speechear.org

CERTIFICATE

This is to certify that this dissertation entitled "Performance evaluation of Decision tree, Random forest and AdaBoost" of the candidate Ms. Maya P. G. for the degree of Master of Science in Biostatistics submitted to the faculty of science of Mahatma Gandhi University, Kottayam, is a record of her research work done under the guidance of Ms. Anu Babu, Assistant Professor and Biostatistician, Department of B. N. Gupta Research Centre, Dr. S. R. Chandrasekhar Institute of Speech and Hearing, Bengaluru, Karnataka.

(mal)

Ms. Anu Babu

Assistant Professor and Biostatistician,

B N Gupta Research Centre,

Dr. S. R. Chandrasekhar Institute of Speech and Hearing,

Bengaluru, Karnataka

August 30, 2019



PSG Institute of Medical Sciences & Research

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CERTIFICATE

This is to certify that the project work entitled "socio-demographic and lifestyle factors associated with internet addiction among medical and health sciences students" is a record of original work done by Sanoop Thomas under my guidance in partial fulfillment of the requirements for the degree of Master Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associate ship or Fellowship or other similar title to any other candidate of this or any other university.

Forwarded by Dr. K.K. Jose Head of the department of Biostatistics St. Thomas College, Palai, Kerala

Anemether Dr. Anil C Mathew Professor of Biostatistics Department of Community Medicine PSG Institute of Medical Science & Research Coimbatore, Tamil Nadu

Dr. Anil C. Mathew Ph.D Professor of Biostalinics Department of Community Medicine PSG Institute of Medical Sciences and Research Coimbatore - 641 004



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CERTIFICATE

This is to certify that the project work entitled "The Association of Duration of Diabetes with Erectile Dysfunction among Type 2 Diabetes Patients- A Cross Sectional Study in South India" is a record of original work done by Sarath Mohan under my guidance in partial fulfilment of the requirements for the degree of Master Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any other candidate of this or any other university.

Anumetres

Dr. Anil C Mathew Professor of Biostatistics Department of Community Medicine PSG Institute of Medical Science & Research Coimbatore, Tamil Nadu

> Dr. Anil C. Mathew Ph.D Professor of Clostatistics Department of Community Medicine PEG Institute of Medical Sciences and Research Combatore - 641 and

Forwarded by Dr. K.K. Jose Head of the department of Biostatistics St. Thomas College, Palai, Kerala



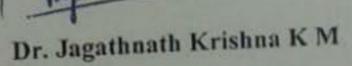
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CERTIFICATE

This is to certify that the project entitled "RISK ESTIMATION IN CANCER SURVIVAL USING FRAILTY MODELS" is a record of original work done by SEJIL MARIYA SEBASTIAN under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not been previously formed the basis for the award of any other Degree or Diploma or other similar title to any candidate of this or any other university.

Jagall-



Assistant Professor in Biostatistics Division of Cancer Epidemiology & Biostatistics

CERITFICATE

This is to certify that Ms. Sujitha Selvakumar 2nd M.Sc Biostatistics student of St. Thomas College palai has successfully completed her project work entitled "Integrated Road Traffic injuries surveillance – Chennai, Tamil Nadu" from 27th May 2019 to 2nd August 2019 at Indian Council of Medical Research, National Institute of Epidemiology, Chennai, Tamil Nadu under my supervision and guidance.

Mamillann 02/00/19

Dr. P.Manickam B.S.M \$ S.,

M.Sc., Ph. D.,

Scientist E

ICMR-NIE, Chennai



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08/08/2019

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CERTIFICATE

This is to certify that the project entitled "PHYSICAL ACTIVITY AND BREAST CANCER RISK BY MENOPAUSAL STATUS IN THIRUVANANTHAPURAM" is a record of original work done by SANDRA VS under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

eyersma Mathew

Dr. Aleyamma Mathew

Professor & Head Division of Cancer Epidemiology & Biostatistics



x

REGIONAL CANCER CENTRE

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08/08/2019

CERTIFICATE

This is to certify that the project entitled "POPULATION ATTRIBUTABLE FRACTION FOR LIVER CANCER DUE TO ALCOHOL CONSUMPTION" is a record of original work done by SHERIN MANICHEN under my supervision in partial fulfilment of the requirements of the degree of Master of Science in Biostatistics of Mahatma Gandhi University, Kottayam. I further certify that the project work has not previously formed the basis for the award of any other Degree or Diploma or Associateship or Fellowship or other similar title to any candidate of this or any other university.

Auto Sava George Dr. Preethi Sara George

Additional Professor in Biostatistics Division of Cancer Epidemiology & Biostatistics