



# 41<sup>th</sup> Annual Conference of the Indian Society for Medical Statistics

**Date: 2-4 November 2023**

***Theme:***

**Emerging Developments in Medical Statistics and Biostatistics  
in the Era of Data Science**

**Pre Conference Workshops on 01-11-2023**

1. Bayesian Computing and MCMC Methods
2. Data Analytics and Machine Learning for Clinical Research



**Organized By**

**School of Mathematics and Statistics**

**&**

**School of Data Analytics**

**Mahatma Gandhi University, Kottayam**

**Priyadarsini Hills, Athirampuzha P O, Kerala, India - 686560**

**In Collaboration with**

**Department of Statistics and Department of Biostatistics  
St. Thomas College Palai**

# Organizing Committee

## Patrons

- Prof. Dr. C. T. Aravindakumar, Vice Chancellor, MGU Kottayam
- Prof. Dr. P. G. Sankaran, Vice Chancellor, CUSAT, Kochi
- Prof. Dr. Sabu Thomas, Former -Vice Chancellor, MGU Kottayam

## ISMS Governing Council

- Prof. S.N Dwivedi, President
- Prof. N. Sreekumaran Nair, President Elect
- Prof. L. Jeyaseelan, Immediate Past President
- Dr. B. Binukumar, General Secretary
- Dr C. Ponnuraja, Treasurer
- Dr. Binu V.S, Bulletin Editor
- Dr. Prasanna Samuel, Web Coordinator

### Members:

- Prof. C.M. Singh, Patna.
- Dr. S. B. Singh, Ranchi
- Dr.K.T Harichandrakumar, Puducherry
- Dr. C.B Tripathi, New Delhi
- Prof. P. Marimuthu, Bengaluru

## National Advisory Committee

- Prof. B.L Verma, Jhansi
- Prof. C.M Pandey, Lucknow
- Prof. V. G Kaliaperumal, Bengaluru
- Prof. D.K Subbakrishna, Bengaluru
- Prof, P.S.S.S Rao, Bengaluru
- Prof. P. Venkatesan, Chennai
- Prof. R.M Pandey, New Delhi
- Prof. Arvind Pandey, New Delhi
- Prof. A. Indrayan, New Delhi
- Prof. K. R. Sundaram, Kochi
- Prof. V. Sreenivas, New Delhi
- Prof. Ajit Sahai, Lucknow
- Prof. K. Thennarasu, Bengaluru
- Prof. Madhulekha Bhattacharya, New Delhi
- Prof. B. Antonisamy, Vellore
- Prof. Aleyamma Mathew, Trivandrum
- Prof. Anil C Mathew, Coimbatore
- Prof. D.C Nath, Guwahati
- Prof. K.K Singh, Varanasi
- Prof. J.P Singh Joorel, Ahmedabad
- Prof. R.N Mishra, Varanasi
- Prof. Uttam Singh, Lucknow
- Prof. N.K Tyagi, Belagavi
- Prof. Vishnu Vardhana Rao, New Delhi
- Prof. Anil Kumar, Agra
- Prof. Asha Kammath, Manipal
- Prof. Manju Pandey, Kolkatta
- Prof. Tinku Thomas, Bengaluru

## State Level Advisory Committee

- Dr. K Jayakumar, Calicut
- Dr. Sebastian George, Kannur
- Dr. Joby K Jose, Kannur
- Dr. C Satheeshkumar, TVM
- Dr. Sunoj S M, Kochi
- Dr. E. I. Abdul Sathar, TVM
- Dr. Manoj Chacko, TVM
- Dr. Preeti Sara George, TVM
- Dr. Jagathnath Krishna, TVM
- Dr. James John, Pala
- Dr. Deemat C Mathew, Pala
- Dr. Jisha Varghese, Pala
- Ms. Renjitha Bhaskar, Kochi
- Mr. Jeswin P, Kottayam
- Dr. Manu Mariam Thomas, Kottayam
- Dr. Smitha S, Kottayam
- Dr. Albin Paul, Muvattupuzha

## Local Organizing Committee

- Prof. Dr. B Prakashkumar, Registrar (Chairman)
- Prof. Dr. Beena Mathew, Dean (Vice Chairman)
- Dr. K. K. Jose, (Organizing Secretary)
- Dr. Ajitha Sasi (Joint Organizing Secretary)
- Dr. Vivek S (Joint Organizing Secretary)
- Dr. Sreekumar R (Convener)
- Dr. Satheesh S (Convener)
- Dr. Ancy Joseph (Treasurer)
- Mrs. Beteena Kurian (Joint Treasurer)
- Dr. Sharon Susan Jacob (Souvenir Editor)
- Dr. Merin Jose (Souvenir Sub-Editor)
- Dr. Silpa Subhash (Souvenir Sub-Editor)
- Mr. Abraham K Samuel (Program Committee)
- Ms. Vasanthi V (Program Committee)
- Ms. Fatima Kalam M. (Program Committee)
- Ms. Athira Valsan (Program Committee)
- Mr. Jiby Joseph (Accommodation Committee)
- Mr. Mohammed Rais P K (Accommodation Committee)
- Mr. Nirmal George (Accommodation Committee)
- Ms. Abseena Habeeb (Registration Committee)
- Mrs. Rose Maria Jose (Registration Committee)
- Mrs. Meenu Tom (Registration Committee)
- Ms. Aneena M S (Registration Committee)
- Mr. Rajesh T S (Administrative Support)
- Ms. Ammu Raju (Administrative Support)

## INVITATION

**Dear Friends and Colleagues,**

It gives us immense pleasure to invite you on behalf of the Organizing Committee to the **41<sup>th</sup> Annual National Conference of Indian Society for Medical Statistics (ISMSCON-2023)** to be held in November, 2023 at School of Mathematics and Statistics & School of Data Analytics, Mahatma Gandhi University, Kottayam, Kerala, India. It is for the first time that ISMS conference is hosted in Kerala.

The Conference will consist of keynote address, symposia, plenary sessions, paper/ poster presentations on a variety of topics. The theme of the programme is “**Emerging Developments in Medical Statistics and Biostatistics in the Era of Data Science**”. There will also be two pre-conference workshops for benefit of young scientists.

We look forward for your active participation and contribution to make this Conference a grand success. Kerala, the God's Own Country, is famous for its natural beauty and communal harmony. The temperature during November will be about 25-30 degree centigrade. We will try our best to make this event a memorable one and eagerly look forward to see you all at Kottayam in November 2023.

**Dr. K. K. Jose**, Organizing Secretary

## CALL FOR ABSTRACTS

The organizing secretary of ISMSCON-2023 is pleased to invite delegates to submit abstracts for the presentations from the domain of theoretical, methodological and applied areas of statistics in medicine, epidemiology, public health, genetics, drug research, data science, large scale surveys, bioinformatics, artificial intelligence, etc. The conference will have plenary talks, invited talks and contributed oral/poster presentations

### Important Dates

**Starting date for submission of Abstracts : 01-07-2023**

**Last date for submission of Abstracts : 30-09-2023**

**Last date for registration to the conference : 05-10-2023**

(Registration fee is listed in Page 5. Registration should be done through the link "**Register for ISMSCON-2023**" given in the website from **01-07-2023**. Abstracts should be submitted through the link "**Submit Abstracts**" in the website of ISMSCON-2023. Participants have to book for hotel accommodation directly. **Hotel Tariffs are given in page 6.** )

**N.B.:** *It is mandatory to Register before submitting abstracts. All those who wish to present papers must submit abstracts, but it's not essential for mere participation. Other guidelines for submission of abstracts is given in Page 5.*

## About ISMS

The Indian Society for Medical Statistics (ISMS), established in 1983 at Jhansi in Uttar Pradesh is a Society, registered under Societies Registration Act XXI of 1860. It is a scientific body consisting of biostatisticians, medical teachers, researchers, demographers, public health professionals and scientists from other related disciplines. This society of scientists working in the medical field is the only society of its kind in the South East Asia region. Society provides a common platform for medical researchers, statisticians and computer specialists to interact and benefit mutually towards sharing the developments and applications of statistical techniques. ISMS is also making efforts at the level of various Councils to augment the training of bio-statistical methods in both medical and para-medical education to improve the quality of education and research in Modern medicine, Dentistry, Pharmacy, Homeopathy, Indian medicine (Ayurveda) and Nursing. Since its inception, the society has been organizing a conference every year in conjunction with its annual meeting at different universities and academic institutes in the country.

## About Mahatma Gandhi University, Kottayam

Mahatma Gandhi University, Kottayam established on 2nd October 1983 is one of the major Universities in Kerala, that strives to fulfill the higher educational needs of the people of Central Kerala. The University was accredited “A” by NAAC with a score of 3.24 points in 2017, and was ranked 30th in National Institution Ranking Framework (NIRF 2022) and has 3rd rank nationally in the Atal Ranking of Institutions on Innovation Achievements (ARIIA-2022), conducted by the Ministry of HRD. The Council of Scientific & Industrial Research (CSIR) ranked the University 13th in India in terms of intellectual productivity and National Institute of Science, Technology and Development Studies (NISTADS) rated 19th in terms of h-index of the science faculty. Department of Science and Technology (DST) also ranked the University 8th under the Promotion of University Research and Scientific Excellence (PURSE) programme. Recently, Times Higher Education ranked MGU 141 among the world’s emerging universities and 11th in India Today–MDRA Ranking 2018. It is included in the Time Higher Education World Universities Ranking at 400-500 band.

The University has won the Chancellors Award for the Best University in Kerala for 3 times in 2020-21, 2017-18 and 2015-16. For more details visit [www.mgu.ac.in](http://www.mgu.ac.in)

## About the Schools

School of Mathematics & Statistics and School of Data Analytics were established in 2020. In this new era of increasing thrust on Mathematical Modeling and Statistical Data Analytics and Data Science, there is wide scope and potential for offering postgraduate and research level interdisciplinary programs in these disciplines. Mathematics and Statistics are fundamental disciplines of knowledge and constitutes most important tools for all programs of study and research as well as science & technology, medical and social sciences, health and welfare, industry, business and management. At present the schools are led by Prof. Dr. K. K. Jose as Hon. Director and a team of dedicated faculty members.

During 2021-22 we have started three programmes of study namely (i) M.Sc. Mathematics (ii) M.Sc. Statistics (iii) M.Sc. Data Science and Analytics. One full semester Project Work and Internship are part of each program. The curriculum and syllabus for these programs are developed by eminent scholars and industry experts with a view to provide teaching, research and training in emerging areas for meeting the demand from academia and industry. In addition to the program of study, various workshops, seminars, conferences, lecture series etc by experts will be offered to encourage research and skill development to meet the emerging challenges.

For more details : [www.sms.mgu.ac.in](http://www.sms.mgu.ac.in), [www.sda.mgu.ac.in](http://www.sda.mgu.ac.in)

## About St. Thomas College Palai and Departments

St. Thomas College Palai established in 1950 is a leading college affiliated to M. G. University Kottayam and offers UG, PG and Ph. D. Programs. It is a UGC recognized College with Potential for Excellence and is accredited by NAAC with A++ grade in 2021. Furthermore, UGC has recognised St. Thomas College as one among the six colleges in Kerala accorded with the status of 'College with Potential for Excellence'(CPE).

It offers M. Sc. Statistics since 1959 and M. Sc. Biostatistics since 2005. Both departments are famous for the contributions in teaching, research and development in Statistics and Biostatistics and related areas. The alumni are working in reputed institutions in India and abroad in academics and industry as leading researchers, teachers, biostatisticians, administrative officers etc.

For details see [www.stcp.ac.in](http://www.stcp.ac.in)

## GUIDELINES FOR ABSTRACT

### Abstract Format:

The abstract should be prepared using **Times New Roman** font and must be submitted on the conference website in the “**Submit Abstracts**” section on or before **30th September 2023** in the following format

- Title (capital and bold, font size 14, centre aligned)
- Author(s) name (bold, presenting author's name underlined, font size 12, centre aligned)
- Affiliation(s) (address of the institution(s) with an email of the presenting author, font size 12)
- Keywords (italics, bold, font size 10, minimum of 3 words and limited to 5 words, separated by commas)
- Text (100 to 250 words, justified, spacing 1.15, all margins of 1 inch, and font size 12)
- Please note that the file name of the document should be the presenting author's first name ("first name.docx")

Guideline for presentation and presentation schedule with further details will be shared soon after the completion of the deadline for registration. The authors will be informed about the acceptance of abstracts by 10th October 2023 and are requested to complete the registration procedure on or before 05th October 2023 using the link for registration in the website.

**For More Details Click Here : [ISMSCON-2023](#)**

**For Registration Details etc please contact**

- Dr. K. K. Jose, Organizing Secretary - Mob: +91 8304870247
- Dr. Ajitha Sasi, Joint Organizing Secretary - Mob: +91 9961225683
- Dr. Vivek S, Joint Organizing Secretary - Mob: +91 9496308382
- Dr. Ancy Joseph, Treasurer - Mob: +91 9495353446
- Mrs. Beteena Kurian, Joint Treasurer - Mob: +91 6238254873

**OR Email us: [ismscon2023@gmail.com](mailto:ismscon2023@gmail.com)**

### Registration Fee

Category	Upto 31 August 2023	01 to 30 September 2023	After 30th September 2023
ISMS Member	₹ 5000	₹ 5500	₹ 6000
Non-Member	₹ 6000	₹ 6500	₹ 7000
Student (Medical PG, PhD)	₹ 3000	₹ 3500	₹ 4000
Student (PG Students other than Medical)	₹ 1500	₹ 2000	₹ 2500
Foreign Delegates	US \$ 150	US \$ 175	US \$ 200
Accompanying Person	₹ 3000	₹ 3000	₹ 3500
Pre-Conference Workshop	₹ 1000	₹ 1500	₹ 2000

**N.B.: All the participants including Invited Speakers, Accompanying Person(s) etc. should register for the conference and pay the registration fee. Registration Fee is for Conference kit and food, does not include accomodation. Accompanying persons will not be given conference kit.**

## Hotel Accommodation Near the Venue

Participants have to book for hotel accommodation directly. Details are given below

Name of Hotel	Address	Email/ Mobile	Room Rate
Hotel Excalibur	Near Caritas Junction, MC Road, Thellakom P.O., 686630	Call: +91-481-2791781, 82, 83, +91-8281234007 Email: info@hotelexcalibur.in	3000
KARIPPALS INN	Sankranthi, M.C. ROAD, 686016, Kottayam, India	+91 - 886 32453	1250
Hotel AIDA	Aida Junction, Near KSRTC, M.C Road, Kottayam Kerala 686001	(+91)481 2568390, (+91) 9539095333, Email: bookings@hotelaida.in	1600
Iswarya Residency	Azad Lane, Thirunakkara, Kottayam, Kerala. PIN-686001	Ph: +91-481-2581511, 2581512, Mob:+91-7025791244, +91 7558070805, Email: iswaryaresidency@gmail.com	2100
The Windsor Castle	Kodimatha, Kottayam, 686 013	Phone: 0481 2363637, 0481 2363638, Mobile: 9544054111 Email: sales@thewindsorcastle.co.in, info@thewindsorcastle.co.in	3400
ARCADIA Kottyam	Tourist Banglow Rd, opp. KSRTC Bus Station, Kottayam, 686001	Call :+91 481 2569999. 9961 99 44 99 Email :info@arcadiahotels.	1800
Hotel Sakthi	Baker Jn. Kottayam, 686 001.	PH +91-481- 2563161, +917909227070, E-mail : hotelsakthi@rediffmail.com	1800
Hotel Anjali Park	K.K Road, Kottayam, 686001	0481-2563661/2563662. anjalipark@gmail.com	2500

For research scholars and students limited moderate accommodation can be arranged at Rs. 1200/- for 3 days on shared basis in Chaithanya Pastoral Centre, Thellakom, Kottayam

## How to Reach Mahatma Gandhi University, Kottayam

Kottayam is well connected by train and Bus services. The nearest railway station is Kottayam, which is 10 kms away from the University campus.

MG University is about 90 kms away from Cochin International Airport. There are several Buses available from Angamaly KSRTC Bus Station to Kottayam. It will take about 2 hours by bus and 90 minutes by Taxi.

Also from Angamaly or Ernakulam one can reach Kottayam by about one hour by train.

### Places to Visit:

The nearby places to visit are Kumarakom Backwaters, Alappuzha, Vagamon Hills, Ettumanoor Temple, Bharananganam Church, Mannanam Church, Sabarimala Temple, Erumely Mosque, Vaikom Temple, Kochi, Munnar, Kumaly (Details about some of these places are available on clicking the pictures below. )

Kottayam is the City of Letters marked for 100% literacy in India for the first time. It is the City of Latex (Rubber) and News Papers.

