SEMINAR: 47

NAME OF THE DEPARTMENT: MATHEMATICS

TITLE OF THE SEMINAR: NATIONAL SEMINAR ON MATHEMATICAL EPIDEMIOLOGY

DATE: 16-02-2023 to 17-02-2023





kerala State Council for Science, Technology and Environment

Sasthra Bhavan, Pattom P.O. Thiruvananthapuram - 695 004, Kerala State, India. Tel: 0471-2548200-09, EVP - 2543557, 2548222, MS - 2534605, 2548220, CoA - 2543556, 2548248

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No. KSCSTE/SSW/III/13

Thiruvananthapuram Dated: 21/10/2022

To

Dr. Smitha Mary Mathew Assistant Professor, Department of Mathematics, St John's College, Anchal, Kollam

Dear Dr. Smitha.

Sub:-

KSCSTE - Scheme for promoting 22kT Beminar/ Symposia/ Workshop - reg.

Read:-

- i) Your proposal entitled 'National Seminar on Mathematical Epidemiology',
- ii) Minutes of the meeting of SS & Committee, held on 14.10.2022

This is to invite your attention to the reference of the above and inform that KSCSTE is pleased to co-sponsor the two-day National Seminar by extending financial assistance of ₹20,000/-, subject to fulfilling the following norms.

- 1. Programme Brochure/ Invitation should be sent to KSCSTE well in advance.
- The organizers should ensure that the conditions stipulated as per the KSCSTE guidelines are fulfilled.
- 3. As per the guidelines, at least 10% of the delegates and Resource persons shall be from outside the State in the case of National Seminar. If this condition is not satisfied, the Programme will be treated as appropriately and the co-sponsorship amount shall be as per rules.
- 4. The financial assistance may be utilized <u>exclusively to cover the expenditure on Course materials</u>, <u>Publication of proceedings</u>, <u>Honoraria and TA for Resource Persons</u>. The co-sponsorship amount from KSCSTE should not be fully utilized only for meeting the TA.
- Utilization of the grant for any other purpose other than the approved heads shall not be entertained.
- 6. The financial assistance from the Council shall be in the nature of co-sponsorship, and hence KSCSTE should be properly acknowledged as either 'jointly organized by KSCSTE' or 'Co-sponsored by KSCSTE' in all the brochures, banners, proceedings, etc. brought out in connection with the Seminar.
- The Souvenirs/ Proceedings brought out in connection with the National Seminar should essentially include one page advertisement about KSCSTE and the matter for advertisement shall be made available on request.
- 8. No change of date will be permitted under any circumstances.
- 9. Change of venue if any, shall be reported to the undersigned promptly.
- 10. This offer letter is valid for 6 months from this date. In case it fails to organize the programme within the stipulated time frame (within 6 months) this offer will be invalid and will automatically stands canceled.



Brief Report

Inaugural function of the seminar started with a prayer song and inaugurated by the Principal of St.John's College, Anchal on 16.02,2023 at 9.30 am. The HoD Sibi C Babu, presided the function. At 9.45 am inaugural function came to an end.

First two technical session were handled by Dr. Prashant Kurnar Srivastava. The first session started at 9.45 am. He gave a brief introduction to mathematical modelling of infectious diseases. Different mathematical models of were discussed. The second session started at 11.30 am. Graphical representation and differential equations of those models were discussed.

Third technical session started after lunch break at 2.00 pm. Dr. B. S. R. V. Prasad handled the session. He discussed about the importance of mathematical modelling. The concepts of equilibrium point, and its stability was discussed.

Next day the fourth session started at 9.30 am and it was handled by Dr. Prashant Kumar Srivastava. He gave a historical overview and literature review of mathematical modelling of epidemiology.

The fifth session was handled by Dr. B. S. R. V. Prasad and was started at 11.15 am. He discussed about Bifurcation analysis using software winplot.

After lunch the sixth session began at 1.45 p.m and was handled by Dr. B. S. R. V. Prasad. He discussed about Lokka-Voltera model and Logistic equations...

Valedictory function started at 3.15 pm and certificates of participation are distributed during the function. The programme came to an end by 3.40 p.m.

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Dr. Smitha Mary Mathew Signature of coordinator

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Place: Anchal Date: 24/02/2023

