



MES ASMABI COLLEGE  
P. VEMBALLUR

# NCIATRI 23 ABSTRACTS 20

Editors

**Ansar E. B., Dhanya P. R., Jisha K. C., Kesavan K.  
Lathif Penath, Mohammed Areej E. M. & Sheena P. A.**



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**MES ASMABI COLLEGE**  
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## ***Preface***

M.E.S. Asmabi College, a premier educational institution managed by the Muslim Educational Society (Regd.) Calicut owes its existence to the remarkable foresight and unremitting zeal of the late Dr. P.K. Abdul Gafoor, the late P.K. Abdulla I.A.S., Dr. M.A. Abdulla and late Dr. A.K. Siddiq Karikulam Azhikode. Started in the year 1968 at P. Vemballur, Kodungallur, a remote coastal backward village in the S.N. Puram Grama Panchayath of Thrissur District with the main objective of uplifting the educationally backward communities of the area who had been denied the right to education for generations. At present the institution provides higher education to about 2500 students in seventeen undergraduate and six post graduate courses. The college was re-accredited by the NAAC with B++ grade in March 2019. National Conference on Interdisciplinary Academic Translational Research and Innovation 2023 (NCIATRI 2023) was held on 7th and 8th February 2023. This conference provided an opportunity for sharing the research experiences of leading academic scientists, researchers and research scholars on all aspects of Interdisciplinary academic Translational Research and Innovation. Different researchers from the field of aquaculture, botany, biochemistry, chemistry, physics, psychology and zoology presented their research works. The book entitled 'NCIATRI 2023 ABSTRACTS' include the abstracts presented in the NCIATRI 2023. This book contain 65 abstracts from various disciplines of science and serve as a quick reference for the various research fields discussed in the national conference.

**Dr. A. Biju**

Principal

MES Asmabi College, P. Vemballur

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## Study on Gut Content of Lunar Tailed Big Eye (*Priacanthus hamrur*)

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Fish gut content analysis provides a general information about the feeding patterns of a fish. Quantitative assessment of feeding habits is important in management of fisheries. Through the analysis of gut content a better idea about the fish diet is also identified. Fish diet is an integration of many components which are ecologically important which includes behavior, condition, habitat use, energy intake and different inter-intra specific interactions etc. Valid information about fish diets and feeding habits gives an idea. To analyze the gut content of the selected species using different methods and critically assess the gut content in relation to feeding habits of the fish. The samples were collected from Munambam harbour, Thrissur district. There are a total of 4 samples collected on different dates of one week interval starting from 09/02/2022 and all these were females, three of them were immature ones and the other one was a specimen with mature ovary. The specimens were transported immediately obtaining them from the harbor by packing in polythene covers containing crushed ice. *Priacanthus hamrur* is exclusively carnivorous. Crustaceans are the most preferred food item of the fish. Though other food items are also seen in the gut the fish seems to show selectivity towards crustaceans. The food items like amphipods (component of benthic fauna) in the gut are an indicator of the fish as a demersal fish. But frequent appearance of planktonic organisms like calanoid copepods and sergestids gives the impression that the fish finds its prey in water column as well.

**KEYWORDS:** *Priacanthus hamrur*.



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