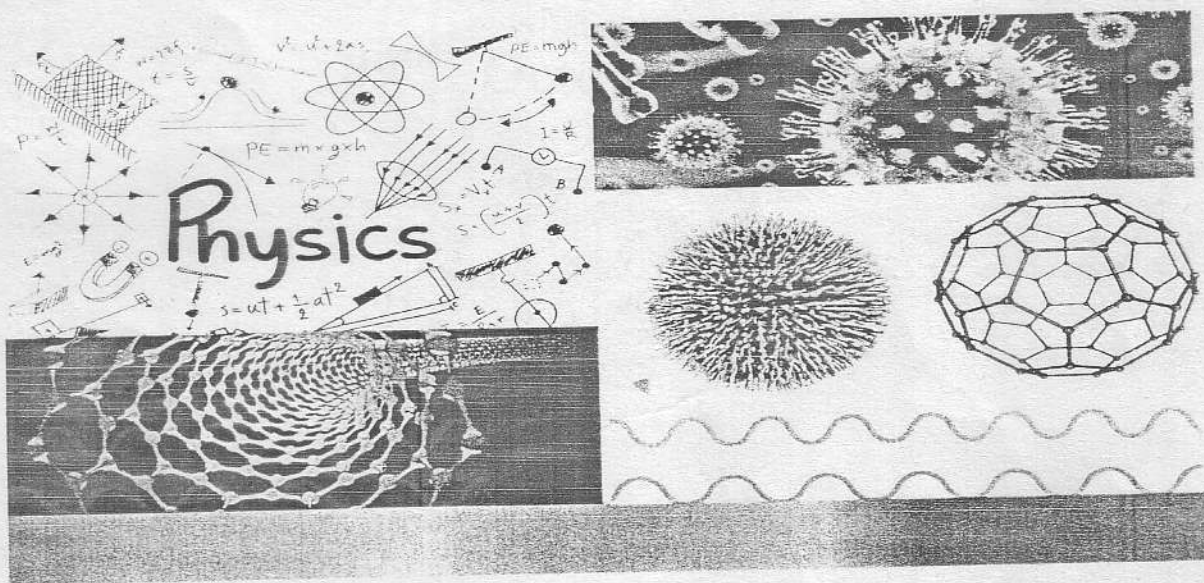


Proceeding of International Conference

International Conference on Applied Science and Innovative Technology

ICASIT 2018

09 October 2018



Organized by
Department of Physics,
MES Keveeyam College Valanchery,
Kerala, India
Accredited by NAAC with A Grade (3.28)

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Transformation in Educational Technologies

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ABSTRACT

In ancient Greece the Elder Sophists employed the term 'techne' to refer to the process of applying knowledge systematically to the practical art of instruction. During the middle ages with the advent of scholastic philosophy, Abelard introduced a technology of instruction which was really a new method of structuring and presenting materials that helped to set the style of scholastic education. Empirical investigation as a basis for an organized process of learning. Educational technology improves the efficiency of the teaching and learning process. It increases the quality of learning while decreasing the time taken for learners to obtain desired learning objectives. It ensures an increase in the efficiency of the teachers by reducing educational cost.

Keywords: Techne__cognitive__scholastic __education Empirical investigation.

DNA Barcoding and Phylogenetic analysis of *Rhyothemis Variegata* (Anisoptera : libellulidae) Using Cytochrome Oxidase I Gene

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ABSTRACT

Rhyothemis variegata is commonly known as “picture wing” or “variegated flutter”. This species is known to be widely distributed in South Asian countries and usually found associated with marshes, ponds and paddy fields. It can be easily diagnosed by the presence of iridescent green thorax, black legs, black abdomen, transparent and golden yellow wings with a characteristic “w” shaped brown mark with a black coloured wing spot on hindwings. In the present study I had PCR amplified the coding sequence of mitochondrial COI gene using suitable primer and which yielded a product having 450 bp length amplified DNA. The sequence was deposited in both NCBI and BOLD databases having the respective accession numbers KP938530 and ABX802 for public accession. Both BLAST and BOLD analysis of nucleotide and protein sequences showed 100% sequence similarity to the same species reported from Mizoram having the accession number KC287151. Also it has been found that phylogenetically this species is very close to *Rhyothemis Phyllis* with an indication of conformation of genus taxonomy. Hence the present study provided a unique DNA barcode to this species from Kerala and it is taxonomically more close to *Rhyothemis Phyllis* than other Libellulidae members.

Traditional Therapeutic uses of Animals among the tribal population of Wayanad district

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ABSTRACT

Scientific research is revealing an ever increasing number of links between biodiversity and human health, not only in terms of food resources but also with regard to materials to treat and cure diseases. Since ancient time plants and animals, or parts of them, have been used therapeutically. Even today animal and plant-based medicines continues to play an essential role in world health care. The study provides an account of Traditional knowledge and health care system of Tribes inhabiting Wayanad District. Tribal people of Wayanad using 35 animal species for the treatment of 30 different kinds of illness. The animal species used as traditional medicine by these people comprise of Mammals, Birds, Reptiles, Arthropods, Annelids and Molluscs species. Careful scientific scrutiny and of this traditional knowledge could lead to the development of the newer and safer drugs as well as spur conservation and sustainable utilization of such unique habitat and resources.

A Preliminary study on Insect Biota associated with "Manilkara Zapota"

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ABSTRACT

Manilkara zapota an exotic species was introduced to INDIA in 1898, majority of farmers are not aware of economic quality of all the year crop. Observation revealed major ecological interactions and resource partitioning of more than hundred diverse insects in a span of six months. sapota is infested by more than 23 insect pests. Major pest reported at Gujarat are chicku bud borer *Anarsia achrasella* (Bradely) [Lepidoptera: Gelechiidae], chiku moth or chiku leaf Weber. *Nephoptryx eugraphella* (Ragonot) [Lepidoptera: pyralidae], Morphological Structures such as thorns, spines, and trichomes of the plant act as mechanical defence against herbivores. There is very scanty literature available on management. From study it is revealed that more than three hundred species inhabit the microhabitat and a strong commensalism relationship exist. Economical investment can be raised by pest control and management.