

ABSTRACTS OF PRESENTATIONS

Workshop on
Postgraduate Education and Research
in Sciences

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POSTGRADUATE INSTITUTE OF SCIENCE
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NATIONAL SCIENCE FOUNDATION

POSTGRADUATE RESEARCH IN SCIENCE AT THE UNIVERSITY OF KELANIYA

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Postgraduate research in Science at the University of Kelaniya are carried out in all eight Departments, ie, Departments of Botany, Chemistry, Industrial Management, Mathematics, Microbiology, Physics, Statistics & Computer Science and Zoology. These research are carried out at M.Sc., M.Phil. and Ph.D. levels. At the M.Sc. level, research is done for a duration of 10 – 12 months during the second year of the programme. M.Phil. and Ph.D. degrees are full time research degrees with a minimum duration of 2 and 3 years respectively. As such, research leading to these degrees have to be carried out for a minimum-period of 1 ½ - 2 ½ years.

At the Faculty of Science of the University of Kelaniya, postgraduate research in Botany are carried out in the fields of ecology, chemosystematics, soil microbiology and postharvest technology of plant products while those in Industrial Management are done in the fields of productivity improvement, bench marking, decision support systems, inventory management and marketing. In Mathematics, postgraduate research are done on multiparameter theory, oscillation phenomena and Einstein field equation. In Statistics & Computer Science, postgraduate research are carried out in the field of data base management. In Microbiology, postgraduate research areas include food microbiology, soil microbiology, environmental microbiology, molecular biology, veterinary microbiology, medical microbiology and microbial technology. In Zoology, postgraduate research are done in the fields of environmental science, conservation biology, fish biology, fisheries management, aquaculture, fish toxicology, postharvest technology of fishery products, fisheries socioeconomics and insect systematics. In Chemistry, postgraduate research are carried out in the fields of natural products, biochemistry and environmental chemistry while in Physics these include research on semiconductors and solar cells.

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