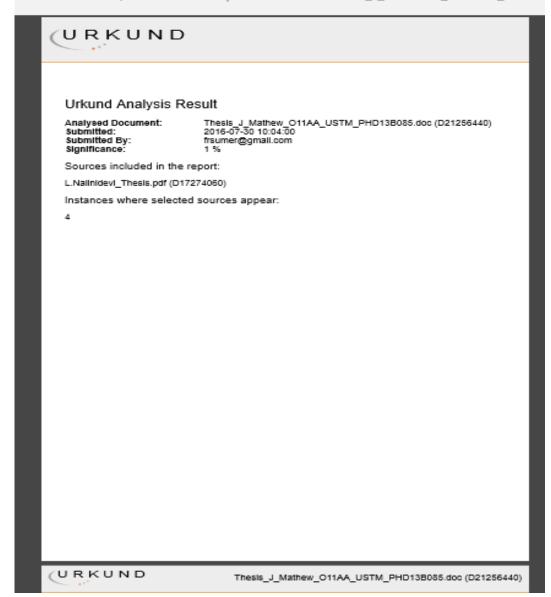
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#### SOLITON SOLUTION

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### OF CERTAIN NONLINEAR DIFFERENTIAL EQUATIONS A

thesis submitted to THE UNIVERSITY OF SCIENCE AND TECHNOLOGY, MEGHALAYA for the Degree of Doctor of Philosophy

under School of Applied Sciences By

Joseph Mathew, MSc (Maths)

Enrollment No: PHD13B 085

University of Science and Technology, Meghalaya Techno City, Kling Road, 9th Mile, Baridua, Ri-Bhol Meghalaya-793101, India August 2016

COMPUTER CENTRE NORTHEASTERNHILL UNIVERSITY, PERMANENT CAMPUS SHILLONG-793022, INDIA Dr. Tapas Kumar Sinha (Retired) M.Sc. (Phy) BHU, MS (Phy) Cincinnati USA MS (Bio. Phy) Cincinnati USA, Ph.D. NEHU CERTIFICATE It is certifled that the research work presented in this thesis entitled "SOLITON SOLUTION

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is abona fide record of the research work carried out by him under my supervision and guidance. This research work is original and has not been submitted before for any degree of this or any other university. This thesis is fit to be considered for the award of degree of Doctor of philosophy. Dr. Tapas Kumar Sinha Co-Guide Associate Professor (Retired) Computer Centre, North Eastern Hill University Shillong. India University of Science and Technology, Meghalaya Declaration by the Candidate This is to certify that the thesis titled "SOLITON SOLUTION OF CERTAIN NONLINEAR DIFFERENTIAL EQUATIONS "submitted by Mr. Joseph Mathew, Enrolment No. PHD13B85 under the supervision of the Guides Dr.S.M. Bujarbaruah, Joseph Mathematics, University of Sc. and Technology (USTM) and Dr. Tapas Kumar Sinha, Associate Professor, Department of Computer, NEHU, Shillong and for award of Doctor of Philosophy Degree of the University carried out during the period of 2013 to 2016 embodies my original work

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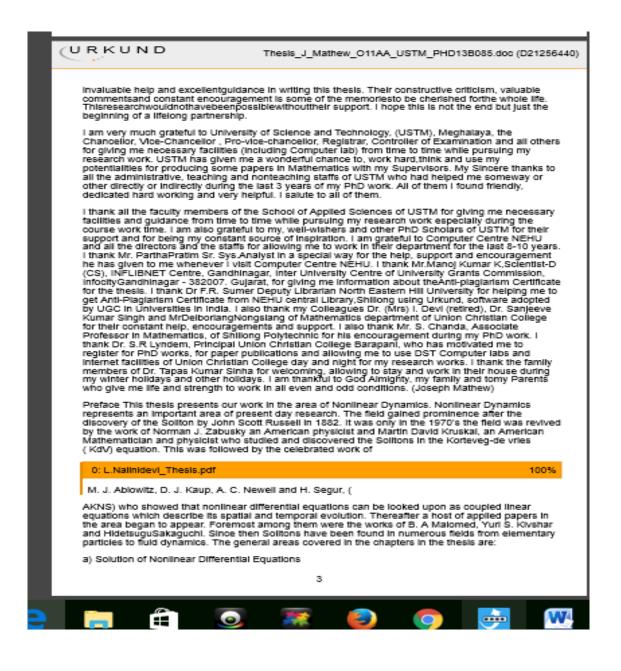
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Dr.S.M. Bujarbaruah Gulde HOD Mathematics, USTM Date:

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Dr. F.R. Sumer

Deputy Librarian North Eastern Hill University (NEHU)

## Note:

Chapter 2 Review of Literature, Chapter 12 References and reference to own papers have been excluded from the Anti-Plagiarism Check.