

Managing Editor Board

- ❖ Dr. Alok Darshan Kothiyal  
H. N. B. Grahwal central University Srinagar Garhw. India
- ❖ Dr. Hasibun Naher  
Universiti Sains Malaysia, Malaysia
- ❖ Dr. Maryam talib aldossary  
University of dammam, Saudi Arabia
- ❖ Dr. Md. Abul Kalam Azad  
Applied Mathematics, University of Rajshahi, Bangladesh

International Editorial Board

- ❖ Dr. Kuldeep Narain Mathur, Malaysia
- ❖ Dr. Gauri Shanker Sao, India
- ❖ Dr. B.Selvaraj, India
- ❖ Dr. M. Ali Akbar, Bangladesh
- ❖ Dr. Kishor R. Gaikwad, India
- ❖ Dr. Uttam Kumar, India
- ❖ Dr. Mohana Sundaram Muthuvalu, Malaysia
- ❖ Dr. Uttam Kumar Khedlekar, India

Contact Us

Website URL : [www.iosrjournals.org](http://www.iosrjournals.org)  
Email : [iosrjournals@gmail.com](mailto:iosrjournals@gmail.com)  
[support@iosrmail.org](mailto:support@iosrmail.org)



**Qatar Office:**

IOSR Journals  
Salwa Road  
Near to KFC and Aziz  
Petrol Station,  
DOHA, Qatar

**India Office:**

IOSR Journals  
SC-89 A, Shastri Nagar,  
Ghaziabad, UP,  
India

**Australia Office:**

43, Ring Road,  
Richmond Vic 3121  
Australia

**New York Office:**

8th floor, Straight hub,  
NS Road, New York,  
NY 10003-9595



**IOSR Journals**

International Organization  
of Scientific Research

e-ISSN : 2278-5728

Volume : 15 Issue : 6 Series-2

p-ISSN : 2319-765X

IOSR-JM

IOSR Journal of  
Mathematics

**Contents:**

<b>Mathematical Modeling with General Periodic Coefficients in Elimination of Pollution</b> <i>E. Batista, L. Leão, S. Sánchez, E. Rodrigues P, R. Ferreira, N.Fernandes. E. Rodrigues F, A. I. Ruiz</i>	01-06
<b>Isometrically Isomorphism between Two Banach Spaces Measured By Hausdorff Distance</b> <i>MallikarjunaKumbar, UdayaIngalagi, TarannumPatel, Pratibha Marigoudar, Heenakouser Nadaf, Narasimhamurthy S. K.</i>	07-14
<b>Existence and Solution Method of Dynamic Structural Model</b> <i>Dr. Pranita Jena</i>	15-17
<b>Mathematical Modeling of Infectious Disease Transmission Dynamics in a Metapopulation</b> <i>Mutuguta John Wanjau, Rotich Titus, Chepkwony Isaac</i>	18-36
<b>Mathematical Modeling of the Transmission Dynamics of Tuberculosis and its Control. (A case study of Ika General Hospital, Ankpa, Kogi State).</b> <i>Omale, D. Atokolo, W &amp; Akpa, M.</i>	37-57
<b>Real Interpolation of Operators in Banach-Saks and Invariant Spaces With Applications</b> <i>NafisaAlgorashy, Adam zakria</i>	58-64
<b>Optimal Control Strategy on Human Papilloma Virus (HPV) model with Backward Bifurcation Analysis</b> <i>Eshetu Dadi Gurmu, Boka Kumsa, Purnachandra Rao Koya</i>	65-87
<b>Mathematical Model for Transmission Dynamics of Typhoid Fever</b> <i>Mamo Shigute Wameko, Alemu Geleta Wedajo, Purnachandra Rao Koya</i>	88-99