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ABSTRACT BOOK

**International Conference on Recent
Advances in Chemical and Biological
Sciences**

**ICRACBS-2022
25-26 September, 2022**

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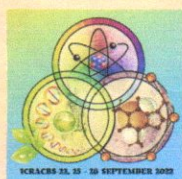


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Organises

Two Days International Virtual Conference

**Recent Advances in Chemical and
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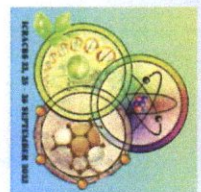
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Write to us :

conferencenmbordi@gmail.com



[Signature]
I/C Principal
Reena Mehta College of Arts, Science
Commerce & Mgt. Studies
Bhayandar (West), Dist. Thane 401 101



Gokhale Education Society's

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"International Virtual Conference on Recent Advances in Chemical and Biological Sciences" ICRCABS-2022

Certificate

This is to certify that Dr. /Mr./Ms. Sneha Khandait of


Reena Mehta College, Bhayandar has Participated / Presented paper
entitled Fixed point theory & its applications _____
_____ in the Two days

International Conference ICRCABS-2022 on 25th and 26th September 2022 organized by IQAC,
Department of Chemistry and Biological Sciences.


Dr. N. T. Nirgude
Convener


Prof. Dr. P. K. Gogari
Convener


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Fixed Point Theory And Its Applications

Sneha Khandait* and Vijay D. Gangan

Department of Mathematics, Reena Mehta College of Arts, Commerce, Science and Management studies, Bhayandar (W), Maharashtra - 401101.

Email :- snehakhandait@gmail.com

Abstract: The fixed point theorems are playing imperative role to solve many problems in mathematical analysis. Fixed point theory is one of the most influential and prolific tools of modern mathematics and may be considered a most essential subject of nonlinear analysis. In a wide range of mathematical problem, the existence of solution is equivalent to the existence of fixed point for a suitable map. The existence of fixed is therefore of foremost importance in several field of mathematics and other science. Fixed point result provide condition under which maps have solution. The theory itself is a beautiful mixture of analysis (pure and applied), topology and geometry. Over the last 50 years or so the theory of fixed point (F.P.) has been alleviate as very powerful and important tool in the study of non-linear phenomena. F.P. theorems have many applications in mathematics. In particular, this technique has been applied in such various area as biology, chemistry, economics, engineering, optimization and game theory, physics, dynamic programing, system analysis, communication network space, etc. and other various disciplines of mathematical science.

The present end over is to report the latest trends in soft metric F.P. theory, emphasizing newer application in numerical analysis, discrete dynamics and fractional graphics.

The present and absence of fixed point is an intrinsic property of function. A point which is invariant under any transformation is called fixed point.

The F.P. equation $Tx = x$ is one among them. F.P. theorems are very important tool for finding the existence and uniqueness of solution to several mathematical models, differential, integral, partial differential equation and etc. representing phenomena arising in distinct areas, such as steady state temperature distribution, chemical equation, newton transport theory, economics theories and flow of fluids. F.P. theorems of ordered Banach spaces provide us exact or approximate solution of boundary value problems.

Keywords: Fixed point, non-linear, biology, chemistry, economics, engineering, optimization and game theory, physics, dynamic programing, system analysis, communication network space and game theory etc.



[Signature]
I/C Principal
Reena Mehta College of Arts, Science
Management Studies
Bhayandar (West), Dist. Thane 401 101