

Review Form 1.6

Journal Name:	Asian Research Journal of Mathematics
Manuscript Number:	Ms_ARJOM_88546
Title of the Manuscript:	Spectral Properties Of Compact Operators
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

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PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Compulsory REVISION comments	<p>Spectral properties provide a powerful way to understand linear operators by decomposing the space on which they act into invariant subspaces. The spectral properties of a compact operator on a normed linear space resemble those of square matrices. For a compact operator, the spectral properties can be treated fairly completely in the sense that Fredholm's famous theory of integral equations may be extended to linear functional equations with a complex parameter λ.</p> <p>In this paper, it has been studied and investigated the spectral properties of compact operators in Hilbert spaces have been studied and investigated. Also, it has been observed that on finite dimensional vector space, the spectrum of an operator consists of all its eigenvalues while on infinite dimensional vector space the spectrum consists of the continuous, residual and the point spectrum. Also, it has shown that the spectral properties of compact linear operators are relatively simple generalization of the eigenvalues of finite matrices. As a result, this paper gives a number of corresponding propositions and interesting facts which are used to prove basic properties of compact operators. It has been introduced the Fredholm theory to investigate the solvability of linear integral equations involving compact operators.</p>	I have rewritten the abstract and the conclusion based on this comment.
Minor REVISION comments	<ol style="list-style-type: none">1. The main motivation and contribution should be highlighted at the end of the Introduction.2. At the end of the Appendix, which theorems correspond to which conclusions need to be clearly stated..3. All references should be cited in the text in sequence. For example, the first cited item should be ref. [1]; then comes ref. [2]....Etc. The new references since last 3 years ago should be added.4. Section 2 does not contain any subjects, and has the same title of section 3.5. The numbering of equations, Corollaries and Propositions preferred to be added according to the numbering of Sections.	<ol style="list-style-type: none">1. The main motivation and contribution of the study has been clearly highlighted in the introduction.2. The propositions that correspond to the main results have been captured in the conclusion.3. All references have been cited some in the introduction with others at the end of the introduction.4. Section two and three was a repetition and has been deleted.5. The equations, corollaries and propositions have been numbered according to the numbering of sections.
Optional/General comments		

PART 2:

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	There are no ethical issues in this manuscript.