



SDI Review Form 1.6

Journal Name:	British Journal of Mathematics & Computer Science
Manuscript Number:	Ms_BJMCS_27221
Title of the Manuscript:	Effects of Hall Current and Rotation on Unsteady MHD Natural Convection Flow Past a Vertical Flat Plate with Ramped Wall Temperature and Heat Absorption
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:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)



SDI Review Form 1.6

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	1. The present paper is well structured but it is crucial to answer the following questions: - What is new in this study? - What do you show in this study? - How do those previous research works impact your work? 2. I would like to add the following recent papers in introduction section: - Numerical analysis of hydromagnetic micropolar fluid along a stretching sheet embedded in porous medium with non-uniform heat source and chemical reaction. Engineering Science and Technology, an Internal Journal. - Thermal diffusion effect on unsteady viscous MHD micropolar fluid flow through an infinite plate with hall and ion-slip current. Procedia Engineering. 2015; 105:160-166. - Hall current effects on Magnetohydrodynamics fluid over an infinite rotating vertical porous plate embedded in unsteady laminar flow. Annals of Pure and Applied Mathematics. 09/2013; 3(2):189-200. - Thermal buoyancy force effects on developed flow considering Hall and Ion-slip current. Annals of Pure and Applied Mathematics. 08/2013; 3(2):179-188. - Unsteady free convection flow with flow control parameter. Current Trends in Technology and Science. 01/2013; 2(1):193-201. 3. Language has to be reworked in some extend. Especially comma	1(a): The new study is about to check the effects of physical parameters viz. chemical reaction, thermal radiation, Hall current and rotation when the fluid is pass through porous medium under the given initial and boundary conditions. For practical purpose of the problem we have discussed three different cases viz. (a) Plate moving with uniform velocity (b) Plate moving with uniform acceleration and (c) plate moving with periodic acceleration 1(b): We have shown the effects of Physical parameters namely chemical reaction, thermal radiation, Hall current and rotation on the flow field. 1(c): The previous research works are the special case of our problem. Mainly all previous works are confined about the case when the plate is moving with uniform velocity. But our problem deals with three different cases namely (a) Plate moving with uniform velocity (b) Plate moving with uniform acceleration and (c) plate moving with periodic acceleration. 2. The suggested modification has been incorporated in the in the introduction part and are highlighted by yellow colour.



SDI Review Form 1.6

	placement (which can enhance the understanding!) and the use of articles. There are many typing errors which need to be take care. 4. Provide the reference of Eq. (6). 5. The length of the paper can also be reduced in my opinion. I feel the level of detail especially in the solution of the problem (Section 3 and 4) takes the focus away from the scientific questions. The methodology of solution could be relegated to appendices. I feel the paper should focus more on the specific questions. 6. In 'Result and Discussion' authors have noted observations. But it is suggested that to provide physical explanations of all obtained results which can enrich the quality of the paper. 7. Are the legends of the Figures correct? Please check 8. It would be good if the author redraw all the figures for $y=4$. 9. The present results of this manuscript does not compare with any previous results. It is highly recommended to compare the present results with any other previous study. 10. In conclusions please provide a general comment on the obtained results. For example: how can this work help in future researchers to contribute further knowledge?	3. The suggested modifications have been done throughout the problem and are highlighted in yellow colour. 4. The reference to eq. (6) is added. 5. As much as possible I have tried to shorten the length of the paper. 6. As suggested by you, I have tried to give the Physical explanations of each of the physical parameters involved in the problem for better understanding of the problem and the modification has been highlighted with yellow colour. 7. The legends of the Figures are checked and the modification has been highlighted with yellow colour. 8. All the Figures are redrawn and are provided with the Manuscript. 9. The present study is compared with Nandkeolrar et al. [20] and are highlighted with yellow colour.
<u>Minor</u> REVISION comments	1. Nomenclature should be added.	The Nomenclature has been added after the Conclusion section.
<u>Optional/General</u> comments	The author's sincerely thank the reviewers for their valuable comments and suggestions which helped to improve the quality of the paper.	