Conclusion of the Thesis

The most important findings of the work can be summerized as follows:

- Magnetic parameter M, Velocity slip parameter γ and Suction parameter f_w have retarding effects with velocity.
- Velocity profile increases with increase in Thermal Grashof number Gr_T, Solutal Grashof number Gr_C, Eckert number Ec, Electric parameter E and Micropolar parameter K.
- Weissenberg number We reduces velocity profile while variable viscosity parameter ζ behaves in opposite way.
- Angular velocity profile enhances with increase in concentration of microelements n and Micropolar parameter K, while declines with high values of unsteadiness parameter A and Thermal Grashof number Gr_T.
- Temperature of the fluid observes positive impact of Radiation parameter Rd, Magnetic parameter M, Temperature ratio parameter θ_w, Eckert number Ec and Brinkman number Br.
- A rise in temperature is observed for Heat generation/absorption coefficient β and Dufour number Du, while a decline is observed for Prandtl number Pr and Micropolar parameter K.
- For increasing values of Electric parameter E, Thermal Biot number λ_1 enhance temperature.
- Concentration field increases for Soret number Sr, Chemical reaction parameter K_c, while behaves opposite for Schimdt number Sc .
- For larger values of Suction parameter f_w, concentration decreases, while increases with increase in Solutal biot number λ_2.

- Skin friction factor enhances with increase in Weissenberg number We, velocity slip parameter γ, Thermal Grashof number Gr_T and Solutal Gashof number Gr_C whereas declined for Magnetic parameter M, Variable viscosity parameter ζ and Suction parameter f_w.

- Nusselt number is enhanced against rising values of Prandtl number Pr, temperature ratio parameter θ_w, Thermal Biot number λ_1, Thermal Grashof number Gr_T and Radiation parameter Rd, while decreases for Dufour number Du, Heat generation/absorption coefficient β and Brinkman number Br.

- Skin friction and number of Sherwood decreases for the broad unsteadiness parameter A values.

- Sherwood number is raised for Schmidt number Sc.

- N_G augmented when increment occurs in Magnetic parameter M, Diffusion parameter L^*, Thermal Grashof number Gr_T, temperature difference parmeter α_1 and Brinkman number Br.

- Bejan number has increment for large amount of α_1, L^* and M while decreases for higher values of Br.