

**DEPARTMENT OF MATHEMATICS**  
**H.N.B. PG COLLEGE KHATIMA**

**Programme Outcomes (POs)**

The Students of mathematics studying at Under Graduate and Post Graduate level are prepared to enrich their knowledge in :

**PO-1** : Framing practical real life problem with the help of Mathematics and operation research.

**PO-2** : Finding the solution of problem and taking appropriate decision on them using different techniques and formulae used in Mathematics, Statistics and operation research.

**PO-3** : Understanding and handling of software like MS OFFICE, EXCEL ORIGIN, MATLAB etc. dealing with the problems.

**PO-4** : Delivering the knowledge acquired in the form of presentation and documentation with the society and colleagues effectively.

**PO-5** : Working efficiently towards a project in a team or to frame their own project dealing with real life problem in a competent world.

**PO-6** : Collecting research literature in framing new research problem, formulating the problem in mathematical form, finding their solution numerically and graphically with the different methods analytically or using MATLAB, EXCEL etc. and interpreting their results. **PO-7** : Different technological and industrial applications of nuclear reactors, solar collectors, electronic cooling and food mixing are greatly influenced by the nanofluids due to their increasing thermal conductivity and stability property. In the fields of engineering space technology and the processes taking place at a very high temperature, the importance of radiative heat transfer is observed. The nanofluid flow affects the heat and mass transfer flow in a medium. The students are given main thrust to formulate real world problems related to the nanofluid flow and to find the solution numerically and interpret its result in the social life for the society. These problems require the uses of EXCEL, ORIGIN and MATLAB etc.

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**Programme Specific Outcome (PSOs)**

The students of mathematics background after passing at Under Graduate and Post Graduate level will be able to:

**PSO-1** : Get admission for further studies like research in Mathematics, Statistics or Operation Research in other reputed National and International Institutions.

**PSO-2** : Find the excellent jobs in Government/Public / Private Institutions in India/Abroad and will serve for the society and nation.

**PSO-3** : Find a place in the society to furnish the jobs for the people in need.

**PSO-4**: Form a project dealing with the real life situation happening around us by using mathematical aspects and find its solution which will be helpful for the people.

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