

K.R.K. Govt. Degree College is a rural educational institution located in Bapatla, a backward district in the state of Andhra Pradesh. The college is known for its commitment to providing quality education to students from disadvantaged backgrounds, including those from Scheduled Castes. Despite limited financial support and no recognition as a research center by the University Grants Commission (UGC) and the State Council of Higher Education, the college has managed to produce a significant number of research articles in international journals.

One of the faculty members of the Department of Physics at the college, Dr. Md Nayeem, has recently published three research papers in prestigious journals such as ELSEVIER, SPRINGER, and TAYLOR & FRANCIS. His research focused on testing the suitability of repurposed drugs to treat SARS-CoV-2 infection. Dr. Nayeem used advanced Molecular Dynamics or Simulation studies to find the inhibiting action of the drug on the SARS-CoV-2 virus protein. The papers have come at a crucial time during the COVID-19 pandemic and have paved the way for a solution or methodology for checking valuable drugs for the infection caused by the SARS-CoV-2 virus.

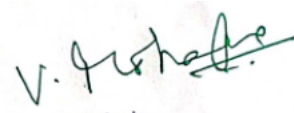
The research papers are a significant achievement for the college, as they demonstrate the commitment of the faculty to contribute to the field of science and technology. They also showcase the potential of students from rural areas to excel in research and make a positive impact on society. The Minister for Higher Education, Dr. A. Suresh, has honored Dr. Nayeem for his contribution to research at a crucial time. Further, international rank in two subjects is also issued to the same author.

In addition to Dr. Nayeem's research, the college's focus on education is towards overall development in research, creative/critical thinking, nurturing novelty, and distinction. The institution aims to provide its students with the capacity to acquire global skills for research with high professional expertise and better quality of education. Through its commitment to education and research, K.R.K. Govt. Degree College is making a positive impact on society by contributing to the development of knowledge and skills among its students and faculty.

1. Target SARS-CoV-2: theoretical exploration on clinical suitability of certain drugs: Taylor-Francis: <https://doi.org/10.1080/07391102.2021.1924262>

2. Target SARS-CoV-2: computation of binding energies with drugs of dexamethasone/umifenovir by molecular dynamics using OPLS-AA force field. Research on Biomedical engineering-Springer: <https://doi.org/10.1007/s42600-020-00119-y>

3. Computational and theoretical exploration for clinical suitability of Remdesivir drug to SARS-CoV-2. European Journal of Pharmacology-Elsevier: <https://doi.org/10.1016/j.ejphar.2020.173642>

  
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