




TAGORE ENGINEERING COLLEGE

(A Member of Tagore Group of Institutions Chennai)

Approved by AICTE, New Delhi | Affiliated to Anna University, Chennai

ACCREDITED BY IQAC-NAAC WITH 'A' GRADE

FACULTY PROFILE

PERSONAL DETAILS		
Name & Qualification	Dr. B.Chandralekha., M.Sc., B.Ed., M.Phil., Ph.D.	
Designation	Assistant Professor	
Department	Physics	
Total Teaching Experience	1	
Total Research Experience	7	
Total Industry Experience	-	
Area of Specialization	Computational studies on organics compounds	
AICTE Faculty ID		
Email ID	chandralekhaphysics@gmail.com	

EDUCATIONAL DETAILS			
Degree	Branch/Specialization	University	Year
UG	Physics	Madurai Kamaraj University	2006
PG	Physics	Madurai Kamaraj University	2008
M.Phil	Physics	University of Madras	2015
Ph.D	Physics	University of Madras	2022

RESEARCH/PUBLICATION DETAILS
Publications in Journal
<ul style="list-style-type: none"> R.Jothiraj and B.Chandralekha “Paired Neighbor Connected Dominator Coloring Set in Graphs”, Indian Journal of Natural Sciences, Volume 14, Issue 79, 2023, pp 58202-58211. (Web of Science) Link: https://tnsroindia.org.in/JOURNAL/issue79/ISSUE%2079%20AUGUST%202023%20-%20FRONT%20PAGE%2001.pdf <p style="text-align: right; margin-right: 50px;">Impact factor: 2.45</p> <ul style="list-style-type: none"> R.Jothiraj and B.Chandralekha “ Triple Connected Dominator Coloring Sets using TUS and Backtracking Algorithm for MANET ”, European Chemical Bulletin, Volume 12,

	<p>Issue7, 2023, pp 2157-2167. (Scopus Indexed)</p> <p>Link: https://www.eurchembull.com/uploads/paper/2d0a75089752cfe99c8d0061e6d5997b.pdf DOI: 10.48047/ecb/2023.12.7.1652023.15/06/2023 Impact factor: 0.5</p> <ul style="list-style-type: none"> R.Jothiraj and B.Chandralekha “Mathematical Based Performance Comparison of TUS and Triple Connected Dominator Coloring Sets for MANET”, European Chemical Bulletin, Volume 12, Issue 4, 2023, pp 3191-3197. (Scopus Indexed) Link: https://www.eurchembull.com/uploads/paper/deaad0c8ba6aef4caa1b68f72dd65773.pdf DOI: 10.48047/ecb/2023.12.4.2172023.08/05/2023 Impact factor: 0.5 <ul style="list-style-type: none"> B. Chandralekha, HemamaliniRajagopal, S.Muthu, S.Sevvanthi, Spectroscopic (FT-IR, FT-RAMAN, NMR, UV-Vis) investigations, computational analysis and molecular docking study of 5-bromo-2-hydroxy pyrimidine, <i>Journal of Molecular Structure</i>, 1218, (2020), 128494. (AU) <p>Annexure – I) https://doi.org/10.1016/j.molstruc.2020.128494 Impact factor: 3.8</p> <ul style="list-style-type: none"> B. Chandralekha , Hemamalini Rajagopal , S. Muthu , Fathima Rizwana B “Quantum mechanical, spectroscopic and molecular docking studies of N-[4-cyano-3-(trifluoromethyl) phenyl]-3-[(4- fluorophenyl)sulfonyl]2-hydroxy-2-methylylpropanamide”, <i>Chemical Data Collections</i>, 2019, 2405-8300. (Scopus Indexed) https://doi.org/10.1016/j.cdc.2019.100183 Impact factor: 0.5 <ul style="list-style-type: none"> Maha S. Almutairi, S. Muthu, Johanan C. Prasana, B. Chandralekha, Alwah R. Al-Ghamdi, Mohamed I. Attia “Comprehensive spectroscopic (FT-IR, FT-Raman, 1H and 13C NMR) identification and computational studies on 1-acetyl-1<i>H</i>-indole-2,3-dione”, Placeholder, published by De Gruyter, <i>Open Chem.</i>, 2017; 15: 225–237. (Scopus Indexed) https://doi.org/10.1515/chem-2017-0026 Impact factor: 0.7
Books/ChaptersPublished	
-	
FundReceived	
-	
PatentApplied/ Published/Granted	
<ul style="list-style-type: none"> Indian Patent Applied Application No. 202341041649 - A Multivariate Approach for the Biometric Comparison of Analytical Methods in Clinical Chemistry 	
CITATIONS	-

H-INDEX	-	
RESEARCH GUIDANCE DETAILS		
Sl.No	University	SupervisorID/Reference
1	AnnaUniversity, Chennai	-
2	NumberofUGScholarsGuided	-
3	NumberofPGScholarsGuided	-
4	NumberofPh.D.Scholars Guided	-
5	NumberofPh.D. Scholars Pursuing	-
PROFESSIONAL SOCIETY MEMBERSHIP DETAILS		
Sl.No	ProfessionalSocietyName	MemberID
-	-	-