



Sadakathullah Appa College

*An Autonomous Institution, Re-Accredited by NAAC at an 'A' Grade, *ISO 9001 : 2015 Certified*

AQAR

(2021 – 2022)

CRITERION VI

Internal Quality Assurance System

6.5.1: Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes visible in terms of – Incremental improvements made for the preceding year with regard to quality (in case of first cycle) Incremental improvements made for the preceding year with regard to quality and post accreditation quality initiatives (second and subsequent cycles)

SEED MONEY AND INCENTIVES FOR RESEARCH DEVELOPMENT



INCENTIVES

The faculties are encouraged with incentives for publishing articles in reputed journals and granted OD for presenting papers and acted as resources persons. Faculties have published 46 research papers in Scopus, Web of Science and UGC-Care listed Journals. An amount of Rs.46, 000/- has been sanctioned in the academic year 2021-2022. Many faculties have published research papers with remarkable citations h-index and i10-index.

DETAILS OF PAPER PUBLICATIONS IN WEB OF SCIENCE AND SCOPUS- INDEXED JOURNALS 2021 – 2022

S. No	Name of the Faculty and Department	Name of the Journal	Title of the Paper	Vol. No, Issue No, ISSN No, Month Year	Indexed
1.	Dr. S.M. Abdul Kader Principal	Materials Today: Proceedings	Synthesis of Bismuth Oxide Nanoflowers Using Natural Honey	volume 45, part 4, pages 3908-3910 2021,	Scopus
2.	Dr. S.M. Abdul Kader Principal	Coatings	Photocatalytic and Biological Activity of Zno Nanoparticles Using Honey	11(9), 1046 2021,	WOS
3.	Dr. S.M. Abdul Kader Principal	Water	Visible Light Photocatalyst and Antibacterial Activity of Bfo (Bismuth Ferrite) Nanoparticles From Honey	vol.14 issue:10 art no: 1545 May 2022	Scopus
4.	Dr. S.M. Abdul Kader Principal	Journal of Materials Science: Materials In Electronics	Growth, Structural, Optical, Thermal, Mechanical and Electrical Properties of Potassium Chromium Sulphate Single Crystals	vol:33 issue:07 January 2022	Scopus
5.	Dr. S.M. Abdul Kader Principal	Physics and Chemistry of Solid State	Investigation on the Solubility, Growth, Vibrational Characteristics And Linear Optical Constants of Potassium Bisulphate Single Crystals	vol.23 issue:2 page no:210-215 April 2022	Scopus
6.	Dr. S.M. Abdul Kader Principal	East European Journal of Physics	Photoluminescence, Impedance, Thermal Characteristics and Hirshfeld Surface Analysis of Potassium Bisulphate Single Crystals For Third Order Nlo	vol.2021 issue:4 page no:145-151 2021	Scopus

S. No	Name of the Faculty and Department	Name of the Journal	Title of the Paper	Vol. No, Issue No, ISSN No, Month Year	Indexed
			Applications		
7.	S. Khaleel Ahamed Department of English	Journal of Language and Linguistic Studies	Using Bilingual Method in Esl Classrooms: Advantages and Challenges	17(3), 2182-2185; 2021	Scopus
8.	Dr. S. Syed Ali Fathima	Journal of Xidian University	A New Approach on Finding the Edge Pebbling Number of Edge Demonic Graphs	Vo16, ISSUE 3, 178-180, March, 2022	Scopus
9.	Dr. S. Syed Ali Fathima & U.Jerseena Department of Mathematics	Journal of Design Engineering	Some Weak Form of Topological Simple Ring,	No. 8, PP: 11776 – 11787, October 2021	Scopus
10.	Dr. S. Syed Ali Fathima & U.Jerseena Department of Mathematics	International Journal of Mechanical Engineering	Filter in Topological Simple Ring,	Vol. 6 , No. 3, PP.3311-3314, December 2021,	Scopus
11.	Dr. S. Firthous Fathima Department of Mathematics	Design Engineering (Toronto)	On Ideal N-Topological Ordered Spaces	Issue No: 9, pg. No: 5123-5133, December 2021	Scopus
12.	Dr. M.Himaya Jaleela Begum Department of Mathematics	Journal of Design Engineering (Toronto)	Generalized Cubic Ideals of Near Rings	Issue 9, Pages: 14494-14507, ISSN: 0011-9342, Oct 2021	Scopus
13.	Dr. M.Himaya Jaleela Begum	Journal of Design Engineering	Bipolar Fuzzy Bi-ideals of Near-rings	Issue 9, Pages: 15728-15733, ISSN: 0011-9342Dec2021	Scopus

S. No	Name of the Faculty and Department	Name of the Journal	Title of the Paper	Vol. No, Issue No, ISSN No, Month Year	Indexed
	Department of Mathematics	(Toronto)			
14.	Dr. N.M. Rilwan, Department of Mathematics	Indian Journal of Pure and Applied Mathematics	Book Thickness of the Non-Zero Component Union Graph of the Finite Dimensional Vector Space	April 2022	Scopus
15.	Dr. A. Syed Mohamed (Dept of Chemistry)& A.Zeenath Bazeera(Department of Physics)	Journal of Ovonic Research	Growth and Characterization of DI-Norleucine Maleate Crystals	vol. 18, no. 2, p. 195 – 204 March 2022,	SCI
16.	Dr. M. Sheik Muhideen Badhusha Department of Chemistry	Journal of the Indian Chemical Society	Green Synthesis and Characterization of Fe Doped ZnO Nanoparticles and Their Interaction With Bovine Serum Albumin	<u>volume 98, issue 11</u> , 100197 November 2021,	Scopus
17.	Dr. M. Sheik Muhideen Badhusha Department of Chemistry	The International Journal of Health Sciences (Ijhs)	Anti Tumour Efficacy of Curcumin/Chitosancoated Iron Oxide Nanoparticles in Human Lung Cell Line (L132) in an in Vitro Study	, 6(s1), 13429–13438. April, 2022	Scopus
18.	Dr. M. Sheik Muhideen Badhusha Department of Chemistry	J. Water Environ. Nanotechnol.,	Synthesis of Co and Cu Codoped ZnO Nanoparticles By Citrate Gel Combustion Method: Photocatalytic and Antimicrobial Activity	7(2): 143-154 spring May 2022	Scopus
19.	Dr. I. Antony Danish Department of Chemistry	<u>Computational and Theoretical Chemistry</u>	Dft, Nbo, Homo-Lumo, Nci, Stability, Fukui Function And Hole-Electron Analyses of Tolcapone	<u>volume 1202</u> , 113296 August 2021,	WOS
20.	Dr. I. Antony Danish Department of Chemistry	Heliyon	Spectral, Nbo, Nlo, Nci, Aromaticity And Charge Transfer Analyses of Anthracene-9,10-Dicarboxaldehyde by Dft	vol.7 issue:11 page no:e0837 November 2021	Scopus
21.	Dr. R. Imran Khan Department	Molecular Catalysis	Quinolinium Modified β -Cyclodextrin: An Ionic Ligand Towards Sustainable	vol:519 art no: 112151 January 2022	Scopus

S. No	Name of the Faculty and Department	Name of the Journal	Title of the Paper	Vol. No, Issue No, ISSN No, Month Year	Indexed
	of Chemistry		A3-Coupling And Tandem Cyclisation Reactions of Aldehydes, Amines and Alkynes		
22.	Dr.Sithi Jameela Department of Zoology	<u>Experimental Parasitology</u>	Larvicidal and Ovicidal Activities of Phenyl Acetic Acid Isolated From <i>Streptomyces Collinus</i> Against <i>Culex Quinquefasciatus</i> Say And <i>Aedes Aegypti</i> L. (Diptera: Culicidae)	volumes 226–227, August 2021,	Scopus
23.	Dr. M.I Zahir Hussain Department of Zoology	ENTOMON	Ovicidal and larval repellent efficacy of <i>Tagetes erecta</i> Linn. on <i>Rhipicephalus sanguineus</i> (Latreille, 1806) (Acari: Ixodidae)	46(4): 305-312 (2021)	Scopus
24.	Dr. M.I Zahir Hussain Department of Zoology	International Journal of Mosquito Research	A review on plant phytochemicals potential for mosquito control	9(6): 47-54 May-2022;	Scopus
25.	Dr. S.Nazarath Begam, Department of Physics	Annals of R.S.C.B	Study on Second And Third Order Nonlinear Optical Properties of Triglycine Sulpho Succinate Single Crystals	issn:1583-6258, vol. 25, issue 5, ,pages. 1549 – 1561 2021	Scopus
26.	Mrs. A.Ferin Fathima Department of Physics	Materials Today: Proceedings	Enhancing Structural And Optical Properties of ZnO Nanoparticles Induced By The Double Codoping of Iron and Cobalt	volume 49, part 7, pages 2598-2601 July 2021	Scopus
27.	Dr. V. Chinnathambi Department of Physics	Journal of Nonlinear Studiees	Analysis of Homoclinic bifurcation in a Nonlinearly damped DVP oscillator under the excitation of two forcing terms	vol.28(4), pp.11-23, 2021.	Scopus
28.	Dr. V. Chinnathambi Department of Physics	Nonlinear Dynamics and Systems Theory	Dynamics of Nonlinearly Damped Duffing-vander Pol Oscillator Driven by Frequency Modulated Signal	vol.21(5) pp.1-10, (2021)	Scopus
29.	Dr. V. Chinnathambi	Communications on Applied Nonlinear	Nonlinear Dynamics in Three Particular Two Dimensional Maps Under an Additive	vol. 28(3), pp.83-98, 2021,	Scopus

S. No	Name of the Faculty and Department	Name of the Journal	Title of the Paper	Vol. No, Issue No, ISSN No, Month Year	Indexed
	Department of Physics	Analysis	Constant Perturbation		
30.	Dr. V. Chinnathambi Department of Physics	<i>CONTRIBUTIONS TO PLASMA PHYSICS</i>	Enhanced vibrational resonance by an amplitude modulated signal in a nonlinear dissipative two-fluid plasma model	<u>Volume62, Issue3</u> March 2022	WOS
31.	Dr. V. Chinnathambi Department of Physics	Journal of Nonlinear Analysis and Optimization	HOMOCLINIC TRANSITION TO CHAOS IN THE DUFFING OSCILLATOR DRIVEN BY PERIODIC PIECEWISE LINEAR FORCES	Volume 13(1) April-2022	Scopus
32.	Dr. D. Sathya Department of Physics	GIS SCIENCE JOURNAL	NiS Thin Films for solar cell Applications by Successive Ionic layer Adsorption and Reaction method	VOLUME 9, ISSUE 2, February-2022	Scopus
33.	Dr. Santa T. Jostar Department of Physics	Physica E: Low-dimensional Systems and Nanostructures	Enhancement of optoelectrical properties in Co doped CdS-TiO ₂ nanocomposite thin film as photoanode for Semiconductor Sensitized Solar Cells (SSSCs)	142, 115287, April 2022	Scopus
34.	Dr. Santa T. Jostar Department of Physics	International Journal of Nanoscience and Nanotechnology	Role Of Green Synthesized Cu Nanoparticles Of Trigonella Foenum-Graecum L. Leaves and their Impact on Structural, Optical And Antimicrobial Activity	vol.17 issue:2 page no:109-121 2021	Scopus
35.	Dr. K.Ahamed Anis Fathima Department of Commerce Finance	Design Engineering	Comprehensive Review of Functions of Blockchain And Crypto Currency In Finance And Banking	Issue: 9 pages: 3649- 3655 2021	Scopus
36.	Dr. K.Sheik Mydeen Department of Commerce Finance	Design Engineering	A Study on Buyer Preferences Towards Various Petroleum Retail Outlets In Tirunelveli City	issn: 0011-9342 year 2021 issue: 8 pages: 9730-9735	Scopus
37.	Dr. S.	International	Supra Semi Totally	volume 7, issue	Scopus

S. No	Name of the Faculty and Department	Name of the Journal	Title of the Paper	Vol. No, Issue No, ISSN No, Month Year	Indexed
	Angelin Kavitha Raj, Department of Mathematics	Journal of Scientific Research & Engineering Trends	Continuous Function in Supra Topological Space	2, March-April-2021, Issn (online)	
38.	Dr. S. Piramu Kailasam Department of Computer Science	Turkish Journal of Computer and Mathematics	A Study of Hybrid Features and YOLO model in COVID'19	Vol. 13. No. 03 (2022) 512-519	Scopus
39.	Dr. R.Kumuthini, Department of Physics(SF) & Dr. S. Piramu Kailasam Department of Computer Science	Journal of Xi an Shiyon University, Natural Science Edition	Green Synthesis and Characterization of Nickel Oxide Nanoparticles	Vol. 18 Issue 6. 2022 522-531	Scopus
40.	Dr. M. Mohamed Sathik, Principal Department of Computer Science	Lecture Notes in Electrical Engineering	Automated Diagnosis of COVID-19 Using Squeeze Net Architecture Based on Deep Learning	841, 2022	Scopus
41.	Dr. Shajun Nisha Department of Computer Science	International Conference on Advance Computing and Innovative Technologies in Engineering, ICACITE 2022	Critical Information Framework against Cyber-Attacks using Artificial Intelligence and Big Data Analytics	533, 537	Scopus
42.	Dr. Shakul hameed BBA Department of Business Administration	AMERICAN JOURNAL OF ECONOMICS AND SOCIOLOGY	Women's entrepreneurship is one of the most evocative terms used in this century. Women have achieved sustained progress in all domains. Nourishing a	81, 1 Jan 2022	Scopus

S. No	Name of the Faculty and Department	Name of the Journal	Title of the Paper	Vol. No, Issue No, ISSN No, Month Year	Indexed
43.	Dr. Shakul hameed BBA Department of Business Administration	Emerald	Analyzing organizational barriers towards building postpandemic supply chain resilience in Indian MSMEs: a grey-DEMATEL approach	DOI 10.1108/BIJ-11-2021-0677 May 2022	Scopus
44.	Dr. R. Jothi Mani, Department of Physics	Digest Journal of Nanomaterials and Biostructures	Green synthesis of CuO nanoparticle using justicia adhatoda leaf extract and its antibacterial and thermal asset	Vol.16, 3 2021	Scopus
45.	Dr. R. Jothi Mani, Department of Physics	Rasayan Journal of Chemistry	Morinda citrifolia leaf extract mediated green synthesis of copper oxide nanoparticles and its potential and antibacterial studies	Vol. 14, 2 2021	Scopus
46.	Dr. R. Jothi Mani, Department of Physics	Journal of Nano- and Electronic Physics	Green Synthesis of Copper Oxide Nanoparticles from Catharanthus Roseus Plant Leaf Extract and Its Investigation	Vol.13, 1 2021	Scopus

**DETAILS OF PAPER PUBLICATIONS IN WEB OF SCIENCE AND SCOPUS-
INDEXED JOURNALS June 2021 – June 2022**

Total Number of Papers Departments

S.No	Department	Total Number of Papers
1.	English	1
2.	Mathematics	8
3.	Physics	20
4.	Chemistry	7
5.	Zoology	3
6.	Computer Science	3
7.	BBA	2
8.	Commerce	2
	Total	46


PRINCIPAL
PRINCIPAL
SADAKATHULLAH APPA COLLEGE
Rahmath Nagar, TIRUNELVELI - 627 011.