

HINDU COLLEGE :: GUNTUR

(NAAC 'A' Grade Accreditation)

**Internal Quality Assurance Cell
(IQAC)**

AQAR 2020 - 21

Research Activities



2020– 21



Ph:0863-2227649

HINDU COLLEGE, GUNTUR – 522 003

(Re-accredited by NAAC as Grade 'A' with CGPA 3.07)
Main Road, Opp. Sri Venkateswara Vignam Mandir, Guntur

RESEARCH GUIDANCE – 2020 - 21

List of guides from our college is as follows

S. No.	Faculty
1	Dr. B. Rami Reddy
2	Dr. S.V.S. Girija
3	Dr. K. Hanuma Reddy
4	Dr. K. Sreelakshmma
5.	Dr. N. Viswam
6.	Dr. D.N. Deeskhit

Faculty of various universities and institutions and employees of various fields are pursuing their research under the guidance of faculty of Hindu College, Guntur. Other Research Scholars who got registered outside also consult our faculty for interdisciplinary research, Data Analysis and program code.

List of Research Scholars pursued their Research under the guidance of Research Supervisors of Hindu College, Guntur of various subjects for academic year 2020 - 21 are given below:

S. No.	Name	Title of thesis/topic	MPhil./ Ph.D.	Status	University
Dr. S.V.S. GIRIJA, MATHEMATICS					
1.	P. SRINIVASULU	SOME CONTINUOUS AND DISCRETE ANGULAR MODELS WITH	Ph. D.	Awarded on 12-11-2020	ANU

		APPLICATIONS TO CONTROL CHARTS			
Dr. K. SRILAKSHMAMMA, POLITICAL SCIENCE					
1.	K. Prabhudas Lecturer in Political Science Govt Degree College, Addanki	Women Empowerment Through village panchayat- A Case study in prakasam District	Ph. D.	Submitted in Sep 2020	ANU
Dr. A.K.V.S.S.R. RAJASEKHAR, ECONOMICS					
1.	D. SONIA Y10ECR019	Problems and Prospects of Girl Child Education through Sarva Siksha Abhiyan – A Study in Krishna District of Andhra Pradesh	Ph. D.	Submitted in Sep 2020	ANU

ACHARYA NAGARJUNA UNIVERSITY

The National Assessment and Accreditation Council (NAAC) Awarded ANU as 'A' Grade University

Dr. P.V. Krishna
Co-ordinator, Research Cell



Nagarjunanagar - 522 510
Guntur District
Andhra Pradesh, India

Ref: No. ANU/RC/Ph.D./
Statistics/PS/2955/Feb. 2020

Date: 12-11-2020.

NOTIFICATION

It is hereby notified that the Vice-Chancellor on the recommendations of the examiners appointed to adjudicate the Ph.D. thesis entitled "SOME CONTINUOUS AND DISCRETE ANGULAR MODELS WITH APPLICATIONS TO CONTROL CHARTS" submitted by Pokuru Sreenivasulu, Research Scholar under the guidance of Prof. A.V. Dattatreya Rao, Guide, Dr. S.V.S. Girija, Co-Guide has ordered that he/she be declared qualified for the award of the Degree of Doctor of Philosophy (Ph.D.) in Statistics in the Faculty of Physical Sciences.


CO-ORDINATOR
RESEARCH CELL

To
Pokuru Sreenivasulu
Research Scholar,
Department of Statistics, ANU.

Copies to:

The Adjudicators

1. Professor Riccardo Gatto, Institute of Mathematical Statistics and Actuarial Science, Department of Mathematics and Statistics, University of Bern, Alpeneggstrasse 22, 3012 Bern, Switzerland.

2. Prof. R. Elangovan, Professor and Head, Dept. of Statistics, Annamalai University, Annamalai Nagar-608002.

3. Prof. V. Ravindranath, Qtr. F-1, A-Type Staff Quarters, JNTU Kakinada Campus, KAKINADA - 533003.

Prof. A.V. Dattatreya Rao, Guide, Dr. S.V.S. Girija, Co-Guide, Research Director, Dept. of Statistics, ANU.

The Head/Coordinator, Department of Statistics, ANU.

The Principal, University College of Sciences, ANU.

The Finance Officer, ANU.

The Librarian, Association of Indian Universities, AIU House, 16 Kotla Marg, New Delhi.

The Director, Information and Library Network Centre, An Inter University Centre of University

Grants Commission, Infocity, Gandhinagar - 382 007.

The Librarian, University Library, University College, ANU.

The Chief Editor, University Newsletter, ANU Campus.

The Coordinator, NAAC, ANU Campus.

P.A. to Vice-Chancellor, and P.A. to Registrar, ANU.

The Editors, Andhra Prabha, Andhra Jyothi, Andhra Bhoomi, Sakshi, Eenadu, Vaartha, The Hindu, Indian Express - for favour of publication as NEWS ITEM.

**WOMEN EMPOWERMENT THROUGH
VILLAGE PANCHAYAT –**

A CASE STUDY IN PRAKASAM DISTRICT OF ANDHRA PRADESH

By

K. PRABHUDAS

Thesis submitted in partial fulfilment of the
requirements for the award of the degree of

DOCTOR OF PHILOSOPHY

IN

POLITICAL SCIENCE

Research Supervisor

Dr. K. SREELAKSHMAMMA

M.A, Ph.D.

Associate Professor, Department of Political Science
Hindu College, Guntur



**DEPARTMENT OF POLITICAL SCIENCE
ACHARYA NAGARJUNA UNIVERSITY**

**Nagarjunanagar-522 510
GUNTUR, ANDHRA PRADESH, INDIA**

SEPTEMBER 2020

**PROBLEMS AND PROSPECTS OF GIRL CHILD EDUCATION
THROUGH SARVA SIKSHA ABHIYAN – A STUDY IN
KRISHNA DISTRICT OF ANDHRA PRADESH**

By

SONIA DOVARI

M.A., B.Ed.

Regd. No. Y10ECR019

Thesis Submitted to Acharya Nagarjuna University
For Fulfilment of the Award of the Degree of
DOCTOR OF PHILOSOPHY
IN
ECONOMICS

Under the Guidance of

Dr. A.K.V.S.S.R. RAJASHEKAR

M.A., M.Phil., Ph.D.,

Former Reader & Head
Department of Economics
HINDU COLLEGE
GUNTUR



**DEPARTMENT OF ECONOMICS
ACHARYA NAGARJUNA UNIVERSITY
NAGARJUNA NAGAR - 522510, GUNTUR
ANDHRA PRADESH, INDIA**

SEPTEMBER - 2020

CITATION INDEX – DR. S.V.S. GIRIJA,
Professor of Mathematics

On characteristic functions of the wrapped lognormal and the wrapped Weibull distributions

Search within citing articles

[\[PDF\] ntua.gr](#)

Πιθανοθεωρητική μοντελοποίηση γραμμικών και κατευθυντικών μεταβλητών ανεμολογικών και κυματικών χαρακτηριστικών με εφαρμογές στο θαλάσσιο περιβάλλον

[Φ Καραθανάση - 2020 - dspace.lib.ntua.gr](#)

Γενικά, το μετεωρολογικό και ωκεανογραφικό κλιματικό σύστημα δεν μπορεί να περιγραφεί λεπτομερώς λόγω της μη επαρκούς ή ελλιπούς γνώσης των φυσικών νόμων και των αναρίθμητων παραγόντων που επηρεάζουν τις αντίστοιχες συνιστώσες του και προκαλούν ...

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On construction of stereographic semicircular models

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A New Family of Semicircular and Circular Arc Tan-Exponential Type Distributions

[P Yedlapalli, SVS Girija, AV Rao... - Thai Journal of ..., 2020 - thajmath.in.cmu.ac.th](#)

In this paper, an attempt is made to construct a new family of two parameter semicircular model, we call this as Semicircular Arc Tan-Exponential Type distribution, by applying simple projection on Arc Tan-Exponential Type distribution ([Y. Phani, SVS Girija, AVD Rao ...

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Anticancer Activity of Silver Nanoparticle by Using Cassia auriculata Extract

[MP Nawaz, AA Banu, SR Mohamed... - European Journal of ..., 2020 - journalejmp.com](#)

In this study, green synthesis of silver nanoparticles (Ag NPs) has done using traditional herbal namely Cassia auriculata extract by the simple Green synthesis method. The synthesized Ag nanoparticles were studied by the characterization techniques includes X ...

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A New Family of Semicircular and Circular Arc Tan-Exponential Type Distributions

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Title of the Paper	Name of Author	Title of journal	publicatio	Citation Index	as mentioned in the	excluding self citation
Stereographic logistic model-application to noisy scrub birds data	Dr. S.V.S. Girija	Chilean Journal of Statistics	2016	2	Hindu College, Guntur	1
On Characteristic Functions of Wrapped Lognormal and Weibull Distributions,	Dr. S.V.S. Girija	<i>Journal of Statistical Computation and Simulation</i>	2011	1	Hindu College, Guntur	1
Arc Tan-Exponential Type distribution induced by stereographic projection/bilinear transformation.	Dr. S.V.S. Girija	Journal of the Applied Mathematics, Statistics and Informatics (JAMSI)	2012	1	Hindu College, Guntur	0
On Construction of Stereographic Semicircular Models	Dr. S.V.S. Girija	Journal of Applied Probability and Statistics	2013	1	Hindu College, Guntur	0

3.3.6 – h-Index of the Institutional Publications during the year. (based on Scopus/ Web of science) - 2020 -21

Title of the Paper	Name of Author	Title of journal	Year of publication	h-index	Number of citations excluding self citation	Institutional affiliation as mentioned in the publication
Stereographic logistic model-application to noisy scrub birds data	Dr. S.V.S. Girija	Chilean Journal of Statistics	2016	2	1	Hindu College, Guntur
On Characteristic Functions of Wrapped Lognormal and Weibull Distributions,	Dr. S.V.S. Girija	<i>Journal of Statistical Computation and</i>	2011	1	1	Hindu College, Guntur

RICH

(Research Improvement Cell of Hindu College)

PUBLICATIONS OF FACULTY

2020-21

Compiled by
Research Cell and IQAC



HINDU COLLEGE :: GUNTUR

(A NAAC accredited institute with 'A' Grade 3.07 CGPA)

आनो भद्रा क्रतओ यंतु विश्वतः

RICH

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PUBLICATIONS OF FACULTY 2020-21

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PREFACE

“आनो भद्रा क्रतओ यंतु विश्वतः

(LET US RECEIVE NOBLE THOUGHTS AND IDEAS FROM ALL DIRECTIONS)

May these thoughts help the institution to bring glory and to keep it in higher echelons. For a college teacher, it's a really challenging task to manage hectic teaching schedule balancing with the acts of doing doctoral / postdoctoral work producing high quality peer reviewed research output in terms of research papers / articles, projects and successfully guiding scholars for their M. Phils and Ph.Ds. Despite these challenges, many of our teachers did commendable job in achieving these research related goals.

Hindu College, Guntur is well known for stalwarts as both teachers and students for the past 85 years in all subjects. At present 20 staff members with Doctorates are rendering their services in our college. All kinds of research activities like Research Guidance, projects, publishing worthy papers and articles, delivering talks and paper presentations in National and International Conferences in India and abroad as well are exercised by faculty. Management of Hindu College is also providing seed fund to undertake minor research projects by the faculty.

To encourage and to inculcate research culture among the staff members, Management of Hindu College, Guntur came forward to publish an Edited Volume with high quality peer-reviewed scholarly articles of its staff members. Research Cell and IQAC of Hindu College, Guntur initiated the compilation of research publications of the academic year 2020 – 21. It is observed that nearly 20 staff members of Hindu College are having research culture and publishing papers every year. 39 research papers / articles are published by staff members during the academic year 2020 – 21. Out of these, 15 papers are published in internationally reputed Journals with Impact Factor more than 5 and one with H index 8. One of staff members is having outstanding google citation index with high score. Another staff member has an article with patent rights. Some of literary articles are devotional / mythological which are published in journals of tremendous reputation. As the novel coronavirus escalated into a global pandemic, educational institutions all over the world made the difficult decision to shift to distance learning. All the staff members participated in Faculty Development Programmes organized by various prestigious organizations like Ministry of Human Resources Department, Government of India in collaboration with various reputed institutions, for getting equipped with online teaching techniques and tools which is made priority in lockdown period. Faculty member of Economics figured out volume to compile the results of various micro level studies along with the macro economic perspective over the economic impact of this pandemic. College management also arranged various FDPs to inculcate e – teaching.

In this connection, we specially thank the management of Hindu College, particularly Sri S.V.S. Somayaji, President and Sri Ch. Ramakrishna Murthy, Secretary and Correspondent for supporting us in bringing out this edited volume. We also thank our beloved Principal Dr. D.N. Deekshit for his constant encouragement for successful completion of this edited volume.

Dr. P. VENU GOPAL
Coordinator – Research Cell

Dr. S.V.S. GIRIJA
Coordinator - IQAC

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2.	<i>Method development and validation for estimation of ticagrelor in pharmaceutical dosage form by using RP-HPLC</i>	Dr. M. Madhavi Department of Botany
3.	<i>Optimization of Cultural Conditions to Enhance Bioactive Metabolite Production by Streptomyces Olivovercillatus VLK – 15</i>	Dr. N. Krishna Department of Botany
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34.	धन्वनतरिणा उक्तं पशुभिः प्रयोजनम्	Dr. D.N. Deekshit Department of Sanskrit
35.	ఆదర్శదైవం	Dr. Y. Mallikharjuna Rao Department of Telugu
36.	నందామయా గురుడ...	Dr. Y. Mallikharjuna Rao Department of Telugu
37.	మట్టి నీ రూపమట	Dr. Y. Mallikharjuna Rao Department of Telugu
38.	పంచకళ్యాణి	Dr. Y. Mallikharjuna Rao Department of Telugu
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