

SDG 8 Research on Decent Work and Economic Growth

SDG 8 PEPORT $\mathbf{O21}$

THE CONTEXT

Centurion University conducts research in the area of "Decent Work and Economic Growth" through its various schools and research centres. Faculty and students are engaged in and publish many research articles striving towards the standalone topic and others which are cross disciplinary. the University's production units, industry sponsored action learning laboratories and community engagement provide an excellent basis for research in this area.

In the year 2020, there were 27 research papers published in journals of national and international repute which increased to 38 in the year 2021. There were 13 published papers in the year 2022 excluding the papers under review and in-process. The following section serves as a link to last three-year research endeavour in SDG 8.

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Research Articles

- **1.** Novel method for chromatographic determination of Ulipristal Acetate in pure form and formulation by using RP-HPLC.
- 2. An unified control of grid interactive of board EV battery charger with improved Power Quality
- 3. Evaluation of nootropic activity of Bacopa monnieri and Convolvulus pluricaulis herbs extracts with Panchagavya ghrita
- 4. Evaluation of nootropic activity of Bacopa monnieri and Convolvulus pluricaulis herbs extracts with Panchagavya ghrita
- 5. An Optimized PI Controller-Based SEPIC Converter for Microgrid-Interactive Hybrid Renewable Power Sources
- 6. Biomass carbon and soil nutrient status in urban green sites at foothills of eastern Himalayas: Implication for carbon management
- 7. Implication of A4 modular symmetry on neutrino mass and mixing and leptogenesis with linear seesaw
- 8. Scalar dark matter and radiative neutrino mass in a U(1)B-L model
- 9. New Movement Strategy of Cuckoo Search for achieving higher profit rate in milling operation
- **10.** Lung Cancer Detection using an Integration of Fuzzy K-Means Clustering and Deep Learning Techniques for CT Lung Images
- 11. Breeding for pest resistance in vegetable crops: A Review
- 12. Friction Stir Lap Welded Joints for Aluminum Alloys: An Evaluation
- 13. Spectral Characterization and Biological Studies of Some Ternary Complexes with Molecular Docking Investigations against MERS and SARS Type Corona viruses
- 14. Omicron (B.1.1.529 variant of SARS-CoV-2); an emerging threat: current global scenario
- 15. Design of Lagrangian based FOPID controller for desired closed loop system
- 16. Cluster Node Migration Oriented Holistic Trust Management Protocol for Ubiquitous and Pervasive IoT Network
- 17. Effect of Organic Manure on Growth and Developement of Amur Carp
- 18. Seroprevalence and associated Risk Factors of Bovine Brucellosis in Chhattisgarh Plains, India
- 19. Frequency control in hybrid distributed power systems via type-2 fuzzy PID controller
- **20.** Alleviating Cr (VI) stress in horse gram (Macrotyloma uniflorum Var. Madhu) by native Crtolerant nodule endophytes isolated from contaminated site of Sukinda
- 21. An optimized KELM approach for the diagnosis of COVID-19 from 2D-SSA reconstructed CXR Images
- 22. Effect of Nanoparticle Electrification on the Heat and Mass Transfer of Nanofluid Flow over an Inclined Flat Plate with Active Boundary Conditions
- 23. Turbulent Flow Simulation over Two- Dimensional Simplified Car in Dusty Fluid Medium
- 24. Measurement of Effect of Volatility in Crude Oil Prices on Share Prices of Major Petroleum Companies in the Indian Stock Market
- 25. Prioritized Energy Efficient Task Scheduling Algorithm in Cloud Computing Using Whale Optimization Algorithm
- 26. Adapted Facial Recognition And Spoofing Detection For Management Decision Making System: A Visually Impaired People Perspective



- 27. Influence of Demographic Factors on the Mobile Banking Technology Adoption by Customers: A Case of Few Nationalized Banks of Odisha
- 28. Modelling and forecasting of rice production in south Asian countries
- 29. Evolutionary Computing Tools based Design of Elliptical Antenna Array for Amplitude-Position Technique
- **30.** Characterization of Pure Rutile Titania Nanoparticle Prepared by Feasible Method for Coatings and Visible Light-Driven Dye Removal Application
- **31.** Magnetic property applications of microwave method prepared zinc ion modified CoAl2O4 nanoparticles
- 32. Study of physical and magnetic properties of Mg: Co3O4 spinels using L-Arginine as fuel
- **33.** Harmonic Profile Enhancement of Grid Connected Fuel Cell through Cascaded H-Bridge Multi-Level Inverter and Improved Squirrel Search Optimization Technique. Energies
- 34. WRAPPER-Based Metaheuristic Optimization Algorithms for Android Malware Detection: A Correlative Analysis of Firefly, BAT & WHALE Optimization
- 35. In silico studies on phytochemicals to combat the emerging COVID-19 infection
- 36. Repurposing benzimidazole and benzothiazole derivatives as potential inhibitors of SARS-CoV2: DFT, QSAR, molecular docking, molecular dynamics simulation, and in-silico pharmacokinetic and toxicity studies
- 37. The Consecutive Hits of COVID-19 in India The Mystery of Plummeting Cases and Current Scenario
- 38. Transition Metal-Catalyzed Carboamination of Alkenes and Allenes: Recent Progress
- **39.** Metal-Free Intramolecular Hydroalkoxylation of Alkyne: Recent Advances
- **40.** Rice husk and Rice straw based materials for toxic metals and dyes removal: a comprehensive and critical review
- 41. Performance analysis of Variable Compression Ratio Engine using Argemone Mexicana Biodiesel
- 42. Teacher Competence and 21st Century Challenges: A Critical Analysis of Existing Teacher Competency Frameworks
- **43.** AHP (Analytical Hierarchical Process): A Novel Approach of Decision Making in Aerospace Industry Supply Chain Optimization
- 44. Prioritising the factors influencing Productivity in an Aerospace Manufacturing Sector: An Application of Analytical Hierarchical Process
- 45. Assessment and Prioritization of Supply Chain Risk: Development of AHP Model in Aerospace Industry
- **46.** Prediction by SoFt Computing, Planning, and Strategy Building of Aquatic Catch: Chilika Lagoon, Odisha, India,
- **47.** Crucial cell signaling compounds cross-talk and integrative multi-omics techniques for salinity stress tolerance in plants
- 48. Dynamic task scheduling using nature inspired algorithm
- 49. Enhancement investigations on Dielectric and Electrical properties of Niobium pentoxide (Nb2O5) reinforced Poly (vinylidene fluoride) (PVDF)- Graphene Oxide (GO) Nanocomposite Films
- **50.** Productivity and Profitability of Kharif Rice are Influenced by Crop Establishment Methods and Nitrogen Management in the Lateritic Belt of the Subtropical Region



- **51.** Vermi-biofiltration for removal of chemical and biological pollutants from municipal wastewater for agriculture a review
- **52.** Evaluation of Quality Parameters of Seven Processing Type Potato (Solanum tuberosum L.) Cultivars in the Eastern Sub-Himalayan Plains.
- 53. Women's Participation in Local Government: Insights from Victoria (Australia)
- 54. Women Farmers in South Odisha: Empowerment through Agricultural Interventions
- 55. Stock Market Anomaly: Day of the Week Effect in Bombay Stock Exchange with the Application of GARCH Model
- 56. Measurement of Risk and Return Spillovers Effects among Sensex and Equity Based Mutual Funds in India
- 57. Exploring Peoples' Perception towards Government Policy on banning Poly Bags a Case Study of Bhubaneswar Smart City
- 58. Global, Regional, National Vs. State Level Progress in Financial Inclusion of Odisha: A Contemplation
- 59. Impact of Growth of Automobile Production on Performance of Automobile Sector in India
- 60. Valuation of Start Up Companies: A Case Study of Start-ups in Odisha
- **61.** Investment Awareness and Preference of the Individual Investors towards Gold ETFs in the Twin City of Bhubaneswar and Cuttack
- 62. Financial Inclusion vis-à-vis growth and poverty alleviation: An empirical approach
- 63. Future of Farming Why Achieving Sustainability Remains Elusive?
- 64. Education in Schools Managed by Urban Local Bodies
- 65. Urban Health Service Delivered by Local Bodies in India
- 66. Road Infrastructure Provided by Urban Local Bodies in India
- 67. Challenges of Common Service Centers of Rayagada District Findings from a VLE centered analysis
- 68. The Prevalence and Severity of Stress Related Symptoms within a District Police Force, Odisha
- 69. Street lighting amenity provided by Municipal Corporations in India
- 70. Management of Urban Parks and Playgrounds in Developing Countries: A Case Study
- 71. Citizen centric e-Governance challenges and issues: A study in Rayagada district
- 72. A Study on Factors Influencing Investor's Investment Decision
- **73.** Effect of corporate governance on acquiring firm performance: Evidence from construction industry
- 74. Minimization of Inventory Cost for Items having Fuzzy Demand with Backlogged Shortagesin Positive Lead time.
- **75.** Exploring the Integration of IoT in Effective Personalized Learning and Addressing Learning Challenges for Disabilities
- **76.** Current Transformer Saturation & Impact analysis of CT saturation on healthy system & Distance Protection in power network
- 77. Cluster Priority based Holistic Trust Management Protocol for Ubiquitous and Pervasive IoT Network
- 78. A Simulation Study for Graphite-Based Vacuum Coupler for the Ion Beam Irradiation



