



**BABCOCK**  
**UNIVERSITY**

ILISHAN-REMO, OGUN STATE, NIGERIA

# COLLEGE OF POSTGRADUATE STUDIES

## 2022/2023 PhD Thesis Abstract

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**RT: Disruptive Technology and Performance of selected Manufacturing SMEs in Lagos and Ogun States, Nigeria.**

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**AB:** Manufacturing Small and Medium Enterprises (SMEs) play significant roles in a global economy and provided several dynamic benefits that are critical for economic transformation. Studies have shown that despite these contributions, the performance of manufacturing SMEs have been low due to poor capacity and technical know-how. Evidence has shown that Disruptive Technology (DT) enables manufacturing enterprises to reduce costs, improve flexibility and productivity, enhance quality, and increase the speed of business processes. However, SMEs in Lagos and Ogun States are yet to fully optimize disruptive technology in their operations for performance enhancement. The study investigated the effect of DT on performance (return on investment, profitability, market share, sales growth and business turnover) of selected manufacturing SMEs in Lagos and Ogun States, Nigeria.

This study adopted a survey research design. The population was 2,603 owners/managers of manufacturing SMEs in Lagos and Ogun States, Nigeria. The study used Cochran formula to determine a sample size of 436. Simple random sampling technique with proportionate allocation was used to select the respondents. Structured and validated questionnaire was used for data collection. Cronbach's alpha reliability coefficients for the constructs ranged from 0.73 to 0.90. The response rate was 88.3%. Data were analysed using descriptive and inferential (multiple and hierarchical analyses) statistics.

Findings revealed that disruptive technology had significant effect on performance of selected manufacturing SMEs ( $Adj.R^2 = 0.91$ ,  $F(1, 383) = 4037.84$ ,  $p < 0.05$ ). Findings further revealed

that disruptive technology components had significant effect on return on investment ( $Adj.R^2 = 0.84$ ,  $F(6, 378) = 343.20$ ,  $p < 0.05$ ), profitability ( $Adj.R^2 = 0.84$ ,  $F(6, 378) = 341.06$ ,  $p < 0.05$ ), market share ( $Adj.R^2 = 0.83$ ,  $F(6, 378) = 306.20$ ,  $p < 0.05$ ), sales growth ( $Adj.R^2 = 0.84$ ,  $F(6, 378) = 330.96$ ,  $p < 0.05$ ) and business turnover ( $Adj.R^2 = 0.84$ ,  $F(6, 378) = 330.35$ ,  $p < 0.05$ ). Technological innovation ( $\beta = -0.12$ ,  $\Delta R^2 = 0.004$ ,  $\Delta F = 21.58$ ,  $p < 0.05$ ), entrepreneurial orientation ( $\beta = 0.00$ ,  $\Delta R^2 = 0.002$ ,  $\Delta F = 14.15$ ,  $p < 0.05$ ) and the combined results of technological innovation and entrepreneurial orientation ( $\beta = 0.00$ ,  $\Delta R^2 = 0.002$ ,  $\Delta F = 14.15$ ,  $p < 0.05$ ) significantly moderated the effect of disruptive technology on performance.

The study concluded that disruptive technology improved performance of selected manufacturing SMEs in Lagos and Ogun States, Nigeria. It was recommended that owners/managers of the selected manufacturing SMEs in Lagos and Ogun States should embrace and implement disruptive technology in order to improve the overall performance of their organisations.

**Keywords:** Disruptive technology, Performance of SMEs, Technology accessibility, Technology adaptation, Technology awareness, Technology investment, Technology response

**Word Count:** 411

**Abbreviations:** *RFN: Researcher's Full Name, RD: Researcher's Department, RS: Researcher's School, RE: Researcher's Email, RAE: Researcher's Alternate Email, RP: Researcher's Phone Contact, RT: Registered Title, MS: Main Supervisor, ME: Main Supervisor's E-mail Address, SP: Main Supervisor's Phone Contact, CS: Co-Supervisor, CE: Co-Supervisor's E-mail Address, CP: Co-Supervisor's Phone Contact, AB: Abstract*

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