

**INVESTIGATIONS IN THE AREAS OF PERFORMANCE  
IMPROVEMENT IN 802.11ac (DRAFT) WLAN STANDARD  
OVER EXISTING WLAN AND CELLULAR NETWORKS**

**By**

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**COLLEGE OF ENGINEERING STUDIES**

**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

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**IN PARTIAL FULFILLMENT OF THE REQUIREMENT OF  
THE DEGREE OF DOCTOR OF PHILOSOPHY**

**TO**



**UNIVERSITY OF PETROLEUM AND ENERGY STUDIES**

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