

A Radiometric Mapping of Federal University Oye-Ekiti Main Campus, Southwestern Nigeria

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ABSTRACT

The radiometric mapping of Federal University Oye-Ekiti Main Campus along Are-Afao locality was carried out in this study. For this purpose, measurement of the radiation levels were done along 11 major traverses covering the entire developed area of the campus. The measurement was carried out by means of a very sensitive portable DSM-500 Geiger Mueller Survey Meter, with serial number 10005. The results obtained showed that the global average of radiation level for Federal University Oye-Ekiti Main campus was $0.055\mu\text{Sv/hr}$ translating to an annual dose rate of 0.482mSv/yr which falls below the world average dose limit of 2.4mSv/yr for environmental background radiation as reported by UNSCEAR, (2001) and the dose limit of 1.0mSv/yr as recommended by ICRP (1991)