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**EPILEPTIC SEIZURE CLASSIFICATION USING INTRACRANIAL  
ELECTROENCEPHALOGRAM**

**Sanjay Shamrao Pawar,**

**Manik Sadashiv Sonawane,**

**Kamalakar Ravindra Desai,**

Department of Electronics and Telecommunication Engineering, Bharati Vidyapeeth's  
College of Engineering, Kolhapur

**Satish Sayanna Kotwal**

Department of Civil Engineering, Bharati Vidyapeeth's College of Engineering,  
Kolhapur

**Abstract:**

Epileptic seizure is a major neurological brain disorders and which has affected about two percentage of world's population. A medical test knows as Electroencephalography, which records brain signal is used to diagnosis seizure. Intracranial Electroencephalography is a method where electrodes are implanted over the cortex of brain with help of surgery and is used to measure or record brain signal. Epileptic Seizure classification is still challenging areas of research. Epileptic Seizures are classified as focal seizure, generalized and secondary generalized seizure depending upon the area of brain from which it is generated and how it spreads. Classification of Epileptic seizure helps in during brain surgery and treatment of seizure to understand which part of is responsible for generation of seizures. Developed Epileptic seizure classification algorithm classifies seizures as focal Seizure, generalized Seizure and secondary generalized seizure. The classification depends on the percentage of implanted electrodes detecting presence of seizure activity. Epileptic Seizure Classification helps in brain surgery and with proper drug management can improve the quality of life of Epileptic patients.

**Key words:** *Brain Surgery, Epileptic Seizure, Epileptic Seizure Classification, Focal seizure, Intracranial Electroencephalography.*

\*Corresponding Author  
E-mail Address: [sanjaypawar832@gmail.com](mailto:sanjaypawar832@gmail.com)

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