COLLEGE OF ENGANANCE OF ENGANAN

VASAVI COLLEGE OF ENGINEERING

(AUTONOMOUS)
ACCREDITED BY NAAC WITH 'A++' GRADE
Ibrahim Bagh, Hyderabad-31
B.E (E.C.E) – V SEMESTER

POGIL: Process Oriented Guided Inquiry Learning Activity

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SUMMARY:

- The flash ADC is a high-speed ADC that is widely used in real-time applications that require fast data conversion.
- It offers numerous advantages over other types of ADCS, such as speed and simplicity of design.
- However, it also has some limitations, such as power consumption and limited resolution.
- Despite its limitations, the flash ADC remains a popular choice for high-speed applications where speed is a top priority.
- It's simple architecture and fast conversion time make it an excellent choice for applications such as video processing, radar systems, and high-speed data acquisition systems.

KEY POINTS:

FUTURE DEVELOPMENTS AND TRENDS IN FLASH ADC

- The demand for higher-speed, higher-resolution, and lower-power ADCs continues to drive advancements in flash converter technology.
- Ongoing research focuses on improving noise immunity, reducing power consumption, and increasing integration levels using advanced nanoscale semiconductor technologies.
- Furthermore, the emergence of machine learning and artificial intelligence applications emphasizes the need for efficient and high-performance flash converters in processing analog sensor data in real-time.