

SNS COLLEGE OF TECHNOLOGY

(AN AUTONOMOUS INSTITUTION)

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Department of Biomedical Engineering

Course Name: 19BMB301 - Diagnostic and Therapeutic Equipment

III Year : V Semester

UNIT 4- SENSORY EQUIPMENT

Topic - Polygraph



POLYGRAPH





POLYGRAPH:

A polygraph, also known as a lie detector, is a device that measures and records various physiological responses while a person is asked a series of questions. The goal is to determine whether the person is telling the truth or lying.





Types of polygraph tests:

- → Concealed Information Test (CIT): Measures responses to specific information.
- → Comparison Question Test (CQT): Compares responses to relevant and control questions
- → Guilty Knowledge Test (GKT): Assesses knowledge of specific details.





Polygraphs typically measure:

- → Heart rate
- → Blood pressure
- → Respiration rate
- → Skin conductivity (sweat)
- → Muscle activity





Polygraphs are commonly used:

- → National security screenings
- → Court proceedings
- → Law enforcement investigations



Factors:



- → Test related factor
- → Individual factor
- → Physiological factor
- → Psychological factor
- → External factor





- → law enforcement
- → national security
- → forensic psychology
- → insurance and finance
- → personnel screening
- → research and academia
- → clinical psychology