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**MATRIC NO: 17/ENG04/068**

**DEPARTMENT: ELECTRICAL/ELECTRONICS**

1. **Discuss the benefits of filters in engineering systems**

Filters are electronic circuits that remove any unwanted components or features from a signal, it helps properly separate signals having different frequency bands, if it’s too low or too high it be filtered. An example of an engineering system that makes use of filters is **an information filtering system,** it’s a system that removes [redundant](https://en.wikipedia.org/wiki/Redundancy_(information_theory)) or unwanted [information](https://en.wikipedia.org/wiki/Information_technology) from an information stream using (semi)automated or computerized methods prior to presentation to a human user.

**B)**

