

**Lab 3**  
PH 411  
Electronics

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# **1 Time-Dependent Analysis of RC Circuits**

## **1.1 Introduction**

## **1.2 Experimental**

## **1.3 Results**

## **1.4 Conclusion**

# **2 The RC Integrator**

## **2.1 Introduction**

## **2.2 Experimental**

## **2.3 Results**

## **2.4 Conclusion**

# **3 The CR Differentiator**

## **3.1 Introduction**

## **3.2 Experimental**

## **3.3 Results**

## **3.4 Conclusion**

# **4 Response of Both Filters to Complex Waveforms**

## **4.1 Introduction**

## **4.2 Experimental**

## **4.3 Results**

## **4.4 Conclusion**

# **5 Frequency Response of Both Low-Pass and High-Pass Filters**

## **5.1 Introduction**

## **5.2 Experimental**

## **5.3 Results**

## **5.4 Conclusion**