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DEPT : CIVIL ENGINEERING

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1.

```
commandwindow
clc
clear
close all
syms t
t = [0:0.0001:0.35];
Q = 0.25 * sin(25*3.142*t);
V = 0.5 * cos(0.2*3.142*t);
fM = diff(Q);
I(CURRENT) = subs(fM,t);
pL =I(CURRENT) * V;
POWER = subs(pL,t);
figure (1)
plot(t,I(CURRENT),t,POWER)
xlabel('time(s)')
ylabel('variable')
axis tight
grid on
grid minor
legend('Current(A)','Power(W))
```