



NAVI MUMBAI

# MATLAB

## Lab1

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BTech (CSBS) -Semester VII

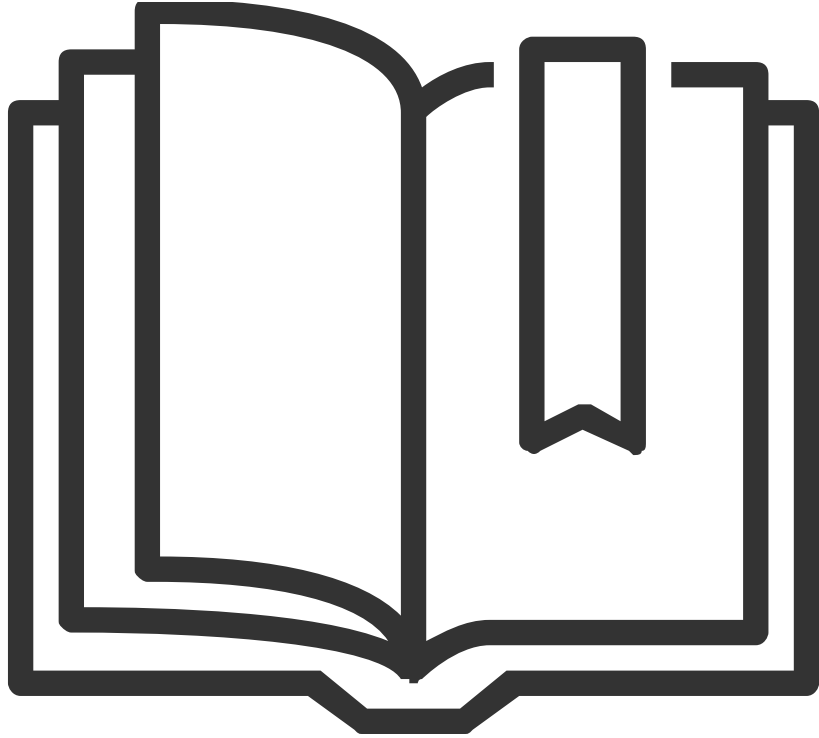
12 July 2022, 10:45AM



## EXPERIMENT 1: Basic Mathematics using MATLAB

Compute the following quantities at command prompt:

- 1)  $2^5/(2^5-1)$  and compare with  $[1-(1/2^5)]-1$
- 2)  $[3(\sqrt{5}-1)/(\sqrt{5}+1)*2] - 1$
- 3) Area =  $\pi r^2$  with  $r=\pi^{1/3}-1$
- 4)  $e^3, \ln(e^3), \log_{10}(e^3), \log_{10}(10^5)$
- 5)  $e^{\pi\sqrt{163}}, \sin(2\pi/6)+\cos(2\pi/6)$
- 6)  $y = \cosh 2x - \sinh 2x$ ; where  $x=32\pi$
- 7) Solve  $3^x=17$  for  $x$
- 8)  $1+(3i/(1-3i)), e^{i\pi/4}$
- 9) Execute the commands  $\exp(\pi/2*i)$  and  $\exp(\pi/2i)$ .
- 10)  $\cot(0), \tan^{-1}(\infty)$



# Thank you for listening

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09:30AM

Image and Video Processing