National Institute of Technology Rourkela

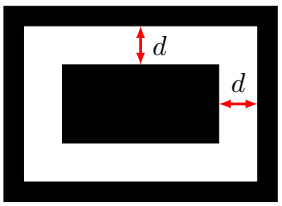
Department of Computer Science & Engineering

Lab Assignments, 2019

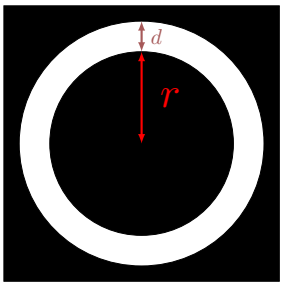
Subject: **Image Processing LAB** Subject Code: **CS-434**

Assignments 1

1. Write a code to create an athletic track of size given d (as taken from user) as given in following figure.



2. Write a code to create an athletic track of size given radius r and track width d (as taken from user) as given in following figure.



3. Synthesise and display image for the given 2D function

$$I(x, y) = 255\cos[2\pi(x/50 + y/25)], 0 \leq x, y \leq 511$$

4. Perform Zoom-in and Zoom-out operation using nearest neighborhood for 'cameraman.tif' test image of size 256×256.

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