**Govt. Engineering College, Thrissur**

***Dept. of Mathematics***

***S4 MA 202 -Assignment***

**Module 3 : Fourier Integrals and Fourier Transforms**

1. Find the Fourier transform and Fourier integral representation of the function

Hence prove that

1. Find the Fourier Transform of . Hence prove that

Also deduce that

1. Find the Fourier Transform of
2. Find the Fourier Transform of
3. Find the Fourier Transform of

Tutorial:

Topic : Fourier Sine and Cosine Transforms

Date :

1. Find the Fourier cosine transform of
2. Find the Fourier sine transform of
3. Find the inverse Fourier sine transform of
4. Find the inverse Fourier cosine transform of
5. Find the Fourier sine transform of . Using Fourier integrals, show that d
6. Find the Fourier sine transform and cosine transform of
7. Using Fourier integrals show that

https://youtu.be/xUKTxstShv0?list=PLU6SqdYcYsfKwY6IPDCshf1kKlk1CCd7d