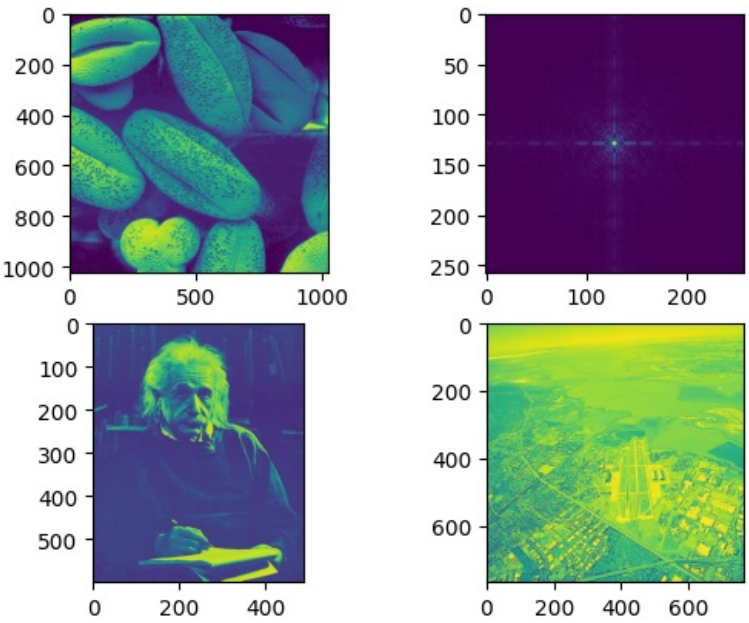
In [35]:
```
import matplotlib.pyplot as plt
import tifffile as tiff
import numpy as np
import os
```

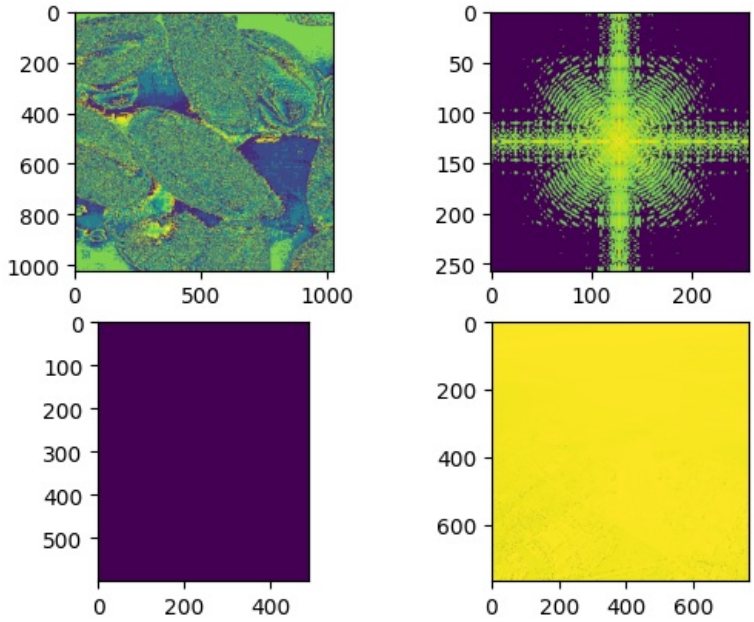
In [36]:
```
# Załadowanie pliku .tiff
img_a = tiff.imread("src/pollen-dark.tif")
img_b = tiff.imread("src/spectrum.tif")
img_c  = tiff.imread("src/einstein-low-contrast.tif")
img_d = tiff.imread("src/aerial_view.tif")
```

In [37]:
```
#Wyświetlenie załadowanego obrazu
plt.figure()
plt.subplot(2,2,1)
plt.imshow(img_a)

plt.subplot(2,2,2)
plt.imshow(img_b)

plt.subplot(2,2,3)
plt.imshow(img_c)

plt.subplot(2,2,4)
plt.imshow(img_d)
plt.show()
```



In [39]:
```
m = 0.45
e = 8
gamma = 0.2
plt.figure()
#pollen-dark
plt.subplot(2,2,1)
c = int(input("Podaj"))
img_a = img_a*c
plt.imshow(img_a)
#spectrum
plt.subplot(2,2,2)
img_b = c * np.log(1+img_b)
plt.imshow(img_b)
#einstein-low-contrast
plt.subplot(2,2,3)
img_c = 1/(1+pow(m/img_c,e))
plt.imshow(img_c)
#aerial-view
plt.subplot(2,2,4)
if(gamma>0 and c>0):
    img_d = c * pow(img_d,gamma)
    plt.imshow(img_d)

plt.show()
```

```
/tmp/ipykernel_21695/1819212428.py:12: RuntimeWarning: invalid value encountered in log
  img_b = c * np.log(1+img_b)
```


0
200
400
600
800
1000
0
500
1000
0
50
100
150
200
250
0
100
200
0
100
200
300
400
500
0
200
400
0
200
400
600