In [1]:
```
# Creating function for SND graph
def stdNBgraph(dataset):


    # Converted to standard Normal Distribution
    #Importing necessary library
    import seaborn as sns

    # Calculating parameters like mean & std the required coloumns
    mean=dataset.mean()
    std=dataset.std()


    #Converting the  required coloumn of the dataset into list
    values=[i for i in dataset]


    #Calculating Z Score for the Values obtained in the previous step and storing in the list
    z_score=[((j-mean)/std) for j in values]


    #Feeding the Z score value into the distance plot for creating visual representation
    sns.distplot(z_score,kde=True)

    x = sum(z_score)/len(z_score)
    print(x)
    #z_score.std()
```

Graph Comparison (SND & PDF)

In [21]:
```
stdNBgraph(dataset["ssc_p"])
```

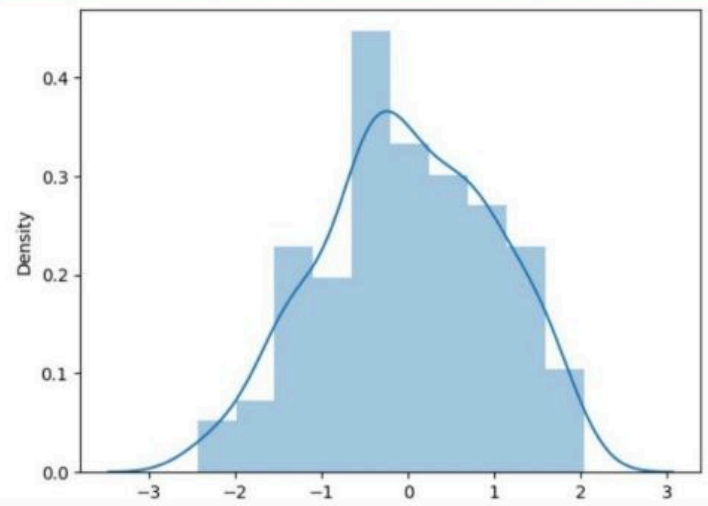
```
C:\Anaconda3\envs\aiml\lib\site-packages\ipykernel_launcher.py:11: UserWarning:

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

Please adapt your code to use either `displot` (a figure-level function with
similar flexibility) or `histplot` (an axes-level function for histograms).

For a guide to updating your code to use the new functions, please see
https://gist.github.com/mwaskom/de44147ed2974457ad6372750bbe5751

  # This is added back by InteractiveShellApp.init_path()
```



In [8]:
```
get_pdf_probability(dataset["ssc_p"],30,80)
```

```
Mean=67.303, Standard Deviation=10.827
The area between range(30,80):0.8698639973987944
```

```
/var/folders/07/ykgp85052b11h5kz22ghn8l40000gn/T/ipykernel_43901/2842244316.py:5: Us

`distplot` is a deprecated function and will be removed in seaborn v0.14.0.

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  ax = sns.distplot(dataset,kde=True,kde_kws={'color':'blue'},color='Green')
```

Out[8]: 0.8698639973987944