

# Time To Failure/RUL



## NETRA

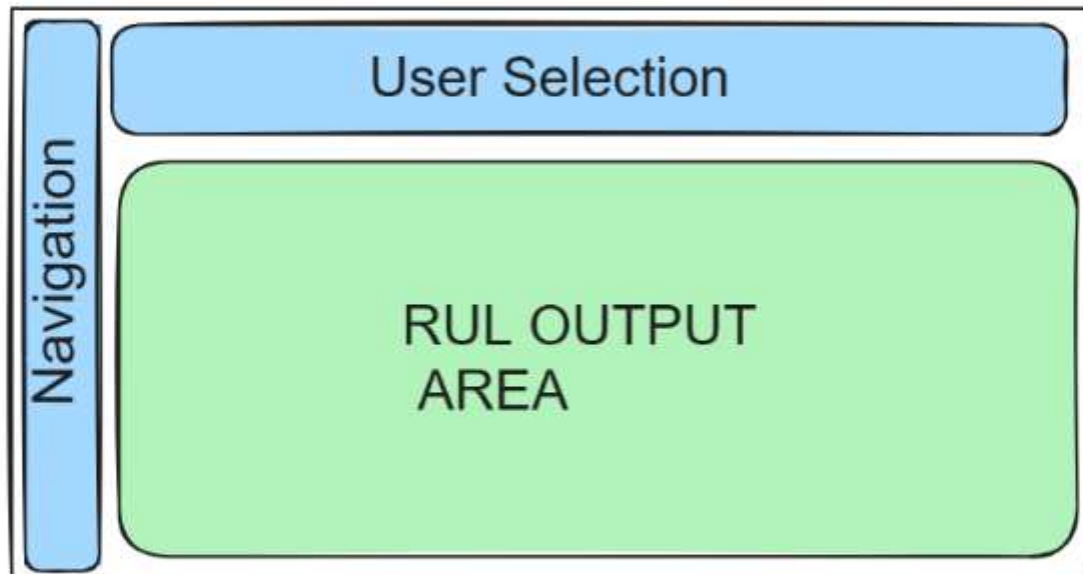
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Module under consideration :- Time To Failure/RUL

The Time to Failure/Remaining Useful Life (RUL) module is a crucial component that provides insights into the expected operational lifespan of a machine. Remaining useful life refers to the duration a machine is anticipated to function before necessitating repair or replacement. This predictive metric is instrumental in empowering engineers to strategically schedule maintenance activities, optimize overall operating efficiency, and proactively prevent unplanned downtime. By leveraging RUL data, the module enables a proactive and data-driven approach to equipment management, facilitating a more efficient and cost-effective operational strategy.

Structure of Time To Failure/RUL:-



Navigation:-



User Selection:-

Ship Name	Equipment Name	Nomenclature	SUBMIT
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# RUL Output Area:

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Fill the above information and click "Submit" to see the RUL.

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## Steps to get Remaining Useful Life (RUL) of a Equipment w.r.t a Sensor:-

### 1. Fill User Selection Fields:

Begin by entering the necessary information in the user selection fields, specifying the ship name, equipment and the respective nomenclature . This ensures that the system focuses on the desired set of data.

Ship Name SHIP 1	Equipment Name GAS TURBINE	Nomenclature GT 1	SUBMIT
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### 2. Click on Submit:

Once the user selection fields are filled, click on the "Submit" button. This action triggers the system to display all sensors associated with the chosen equipment. The most prominent sensor, indicative of current conditions, will be visually highlighted, by blinking in red colour

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GT 1

Temperature

Pressure

### 3. View Remaining Useful Life (RUL):

To examine the Remaining Useful Life (RUL) of the equipment with respect to a specific sensor, click on the highlighted sensor. This action leads to the next step where detailed RUL information will be made available.

### 4. Pop-up Table with RUL Values:

Upon selecting a sensor, a table will pop up, presenting the Remaining Useful Life (RUL) values associated with that particular sensor. These values may be categorized under different confidence levels, providing a comprehensive overview of the equipment's health based on the selected sensor's data. Analyzing these values aids in making informed decisions about maintenance or potential issues related to the equipment.

Remaining Useful Life:- GAS TURBINE (GT 1)	
Sensor:-Temperature	
P:-49	
F:-200	
Confidence	Remaining Life
0.8	696.3799959911183
0.85	696.3799951438185
0.9	696.3799939854551
0.95	696.3799920615749