

# Internship 2022

## Progress report format for team meeting

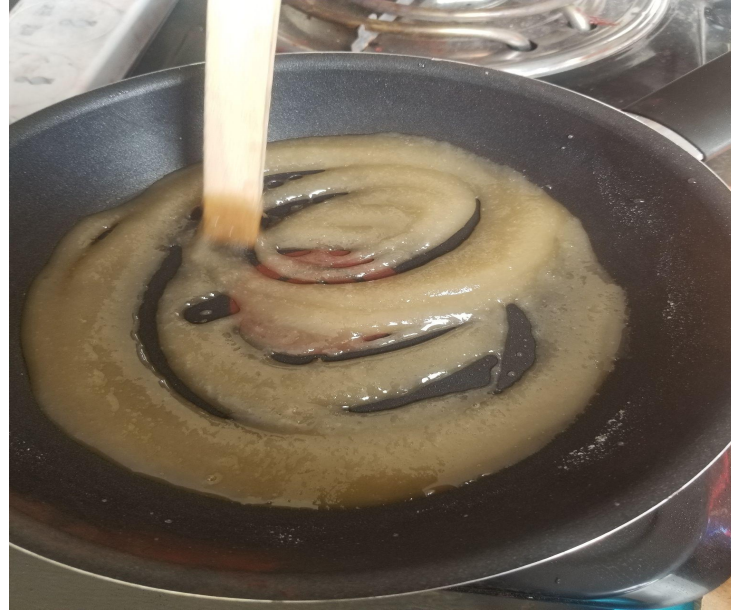
Name: NYERERE VALERIAN  
02/02/2022 - 09/02/2022

# Tasks completed last week

- [#56] Fuel casting (Wednesday)
- [#22] Static fire safety orientation (Thursday)
- [#11] Casting tool fabrication (Friday)
- [#72] Crimson powder development (Monday - Tuesday)

# Fuel casting

Heating a mixture of potassium nitrate and sorbitol to make the fuel. In the ratio 65: 35 respectively.





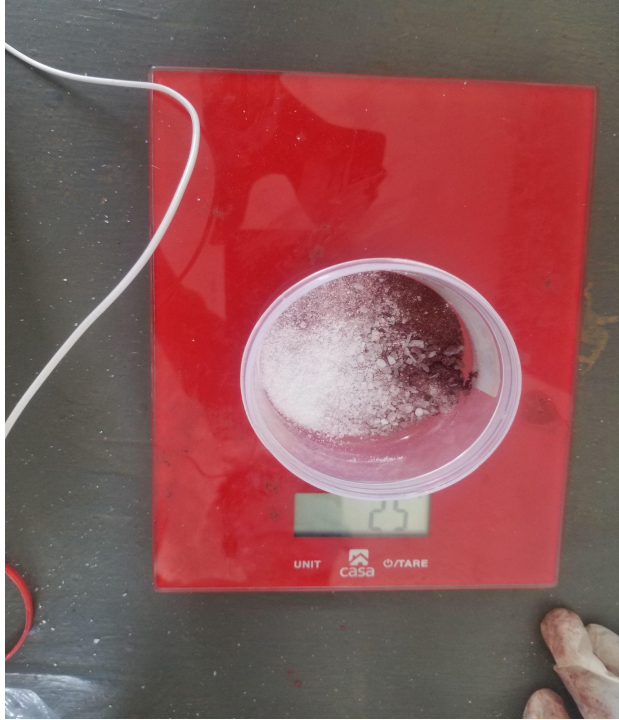
Casted two different temperatures of the fuel casted to use them to compare the burn time rate.



# Casting tools fabrication



# Crimson Powder Development



A mixture of potassium nitrate, iron oxide and ascorbic acid to make the ejector.





The ejector mixture being heated.

Calcium chloride  
used to form the  
desiccant to dry  
the ejector.



# Tasks in this week

- [#69] KNPSB Trials
- [#71] Casing fabrication
- [#56] Fuel fabrication
- #73] KNSB Burn time tests



# Timeline

Month	Intern week	Tasks
Jan		
	Week 1	Research and going through N1 reports.
	Week 2	Fabrication of the test stand PCB.
	Week 3	Nozzle fabrication, Igniter test.
Feb	Week 4	Fuel Casting.
	Week 5	Test stand design and fabrication.
	Week 6	Launch pad design and fuel tests.
	Week 7	Testing and improvement of the final work.