THE FIRST SATELLITE OF

SS AMU SAT

UNDER AMUROBOCLUB

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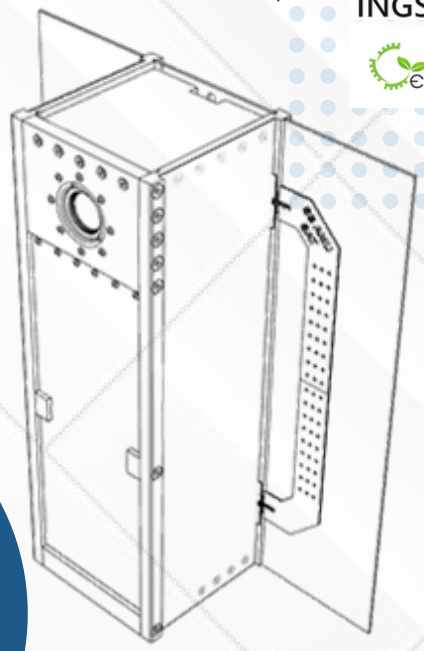
The **SS AMU SAT** project is an initiative by the Students and Alumni of Z. H. College of Engineering and Technology, AMU. The satellite houses a payload that shall ***demonstrate a Novel on-board image compression technique*** for a faster image transmission and also ***study the effect of economic growth on Night Time Light***. Additionally, this project shall act as a platform to test the in-house developed satellite components including the 3U Satellite Bus, ADCS System, Payload System and Electrical Power System.

The Project has recently **received approval from IN-SPACe**, Department of Science, Govt. of India.

FEATURES

PARAMETERS	VALUES
Dimensions	300mm x 100mm x 100mm
Total Mass	3.66 kg
Type of Orbit	Sun Sync. Polar, LEO
Operating Frequency	2.3 GHz
Orbital Velocity	7.584 km/s
Orbital Period	95.86 min
Inclination	97° (estimated)
Altitude	560 km (estimated)
Solar Cell's efficiency	20% (maximum)
Payload	CMOS Camera



The First Satellite Project of AMU

Mission Objectives

01 **Create Awareness among Students in Space Technology**

02 **Demonstrate a Novel Image Compression System**

03 **Study the effect of economic Growth on Night Time Light**

04 **Demonstrate in-House Developed components**

SUPPORT US

The project is actively looking for support in form of funds and logistics to develop and launch the SS AMU SAT. For further details kindly reach out to us on the given numbers. Alternatively you can donate through any of the given options:

ACCOUNT	AMU ROBOCLUB (Preferred)	AMU Account (For Indian/ NRI)
ACCOUNT NAME	ROBO CLUB ZHCET	AMU ALUMNI FUND
ACCOUNT NUMBER	50303609369	0364101056837
IFSC CODE	IDIB000A565	CNRB0005247
BANK NAME	ALLAHABAD BANK	CANARA BANK
BRANCH ADDRESS	ALIGARH MUSLIM UNIVERSITY	ALIGARH MUSLIM UNIVERSITY

Link to Crowd funding through Milaap:

CONTACT US https://amu-sat.github.io/ +91-9457 110112 +91-9027041190 www.linkedin.com/company/ssamu-sat/

SS AMU SAT

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FUNDING PROPOSAL

The Budget requirement of SS AMU SAT is divided into multiple phases, each of which is dependent on the outcomes of completion of previous phase. Since 2021, the team has invested a considerable amount to planning, training and designing of various subsystems. Most of the expenditure has been made by the members' personal contributions and remaining expenditure has been made by a Semiconductor firm based in Noida, India.

TOTAL
₹65L
INCLUDING LAUNCH COST

UNDER
AMUROBOCLUB

SUPPORTED BY
IN-SPACe

SPONSORED BY

INGSOL

C&C

PHASE - 0

Design and PDR Approval

All the expenses borne by members' contribution.

₹2L
COMPLETED

FUNDING PROGRESS [COMPLETED] 100%

PHASE - I

Purchase of Engineering Model Components

ADCS Motors, Space grade GPS, Radio, Antenna, Tracker, Fabrication.

₹18L
[IN PROGRESS]

FUNDING PROGRESS [IN-PROCESS] 16.7%

PHASE - II

Purchase of Space Critical Components & Testing

Solar Panels & Space Qualification Testings.

₹23L

FUNDING PROGRESS 0%

PHASE - III

Launch and Transportation

Launch cost of PSLV/ SSLV, Transportation Cost, Transport Equipment & Fixture Cost, Contingency Cost.

₹22L

FUNDING PROGRESS 0%

We Thank all our contributors for their generous support.

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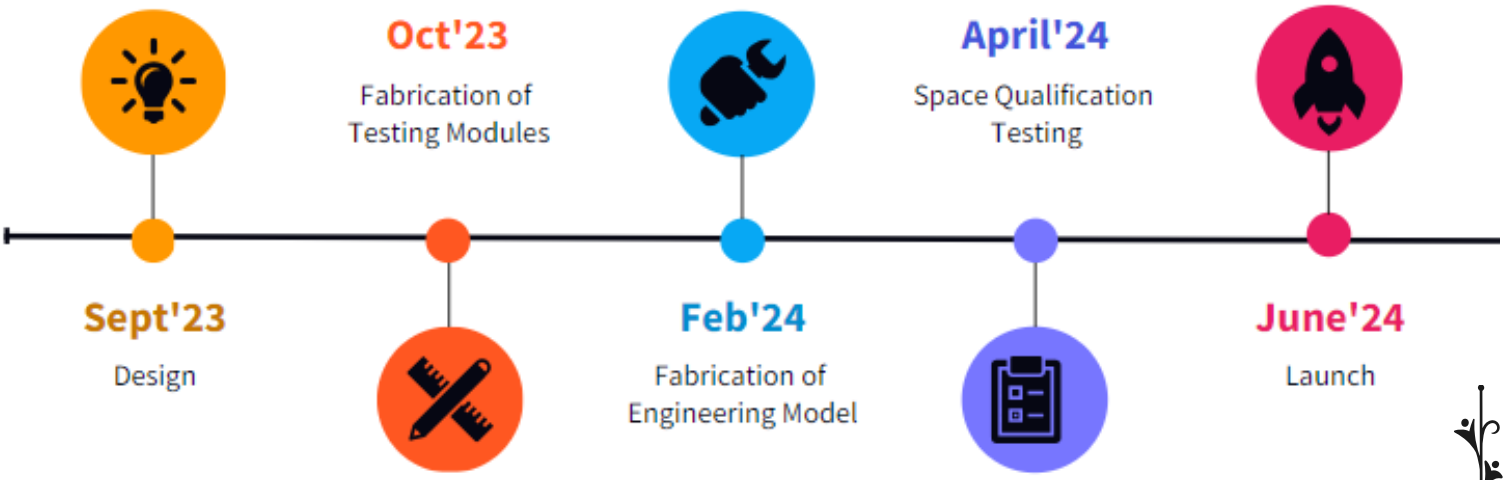
Our Project Timeline



Thank you

FOR SUPPORTING **SS AMU SAT**

SS AMU SAT

Kindly make the transfer in the following accounts:

ACCOUNT	AMU ROBOCLUB (Preferred)	AMU Account (For Indian/ NRI)	AMU Account (For Foreign)
ACCOUNT NAME	ROBO CLUB ZHCET	**AMU ALUMNI FUND**	**AMU MISC ACCOUNT**
ACCOUNT NUMBER	50303609369	0364101056837	10612177027
IFSC CODE	IDIB000A565	CNRB0005247	SBIN0005555
BANK NAME	ALLAHABAD BANK	CANARA BANK	STATE BANK OF INDIA
BRANCH ADDRESS	ALIGARH MUSLIM UNIVERSITY	ALIGARH MUSLIM UNIVERSITY	ALIGARH MUSLIM UNIVERSITY

Link for Crowd Funding

NOTE: Kindly email the transfer receipts on: farazinnovator@gmail.com & ekhan.el@amu.ac.in with your contact info.

Contact us on:

https://amu-sat.github.io/
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