## STUDIES ON THE EFFECTS OF MARSILEA MINUTA EXTRACT ON ETHANOL WITHDRAWAL-INDUCED HYPEREXCITABILITY IN MICE

A Project Report Submitted to



Maulana Abul Kalam Azad University of Technology, West Bengal

In partial fulfilment for the award of the degree of

## MASTER OF PHARMACY IN PHARMACOLOGY

By

MR. BISHAL BANERJEE Reg. No: 211892320210001 of 2021- 22 Roll No: 18920221015

Under the Guidance of
Prof. (Dr). SHYAMSHREE SS MANNA
Department of Pharmacology
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2022-2023



## **DECLARATION**

I hereby declare that the project entitled "STUDIES ON THE EFFECTS OF MARSILEA MINUTA EXTRACT ON ETHANOL WITHDRAWAL-INDUCED HYPEREXCITABILITY IN MICE" by Mr. Bishal Banerjeee in partial fulfillment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of in partial fulfillment of the requirement for the award of Master of Pharmacy submitted to Maulana Abul Kalam Azad University of Technology, West Bengal, is an authentic record of bona fide work carried out by me under the guidance of Prof. (Dr.) Shyamshree S S Manna & Mrs. Jayita Mondal.

The matter embodied in this Project has not been submitted for the award of any other Degree or Diploma to any University / Institution.

BISHAL BANERJEE

ROLL NO: 18920221015

Bishal Banegifee

Date: 24/05/23

Place: Durgapur

## Certificate

This is to certify that the project entitled STUDIES ON THE EFFECTS OF MARSILEA MINUTA EXTRACT ON ETHANOL WITHDRAWAL- INDUCED HYPEREXCITABILITY IN MICE by Mr. Bishal Banerjeee in partial fulfilment for the Master of Pharmacy (Pharmacology) under MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL is a record of the original research work under our supervision and up to our satisfaction. To our knowledge, neither this thesis nor any part of it has been submitted for any other academic award anywhere before. The thesis is forwarded to Controller of Examination MAULANA ABUL KALAM AZAD UNIVERSITY OF TECHNOLOGY, WEST BENGAL for assessment.

Prof. (Dr.) Shyamshree S S Manna M. Pharm., Ph D. Supervisor

Place : Durgapur

Supervisor

Place : Durgapur

Prof (Dr.) Samir Kumar Samanta M. Pharm., Ph.D.

Principal

Place: Durgapur



Signature of External Examiner

Place : Durgapur

Prof. (Dr. 15 ath.) Philipping (8 AHS M. Philipping (8 AHS Principle) Phil