

K.L.E SOCIETY'S

KLE TECHNOLOGICAL UNIVERSITY HUBBALLI - 580031



Department/School Of

CERTIFICATE

This is to certify that research on “**InSilico analysis of Vp4 protein causing pathogenesis in rotavirus and its interaction studies**” is a bonafide work carried out by the student, in partial fulfillment of the award of Degree of Bachelor of Engineering in Biotechnology during the year 2021-22. The research thesis has been approved as it satisfies the academic requirement with respect to the research work prescribed for the above said program.

Guide: Dr Uday Muddapur

Head of School/HOD:
Dr. Basavraj Hungund

External Viva:

Name of Examiner

1. Dr. U M Muddapur
2. Dr Jagadeesh Bhat

Signature

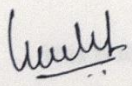
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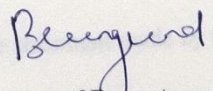
K.L.E.Society's
KLE Technological University
Department of Biotechnology

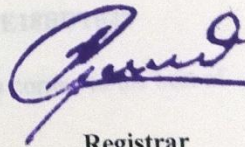


Certificate

This is to certify that the REU project work titled " **In-silico molecular docking and simulation studies of protein HBx involved in pathogenesis of HBV** " is a bonafide work carried out by **Krithika C**, in partial fulfillment for the award of degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/ suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.


Guide/Co-Guide

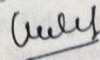

Head of Department
(Dr. B.S. Hungund)


Registrar
(Dr. N.H. Ayachit)

Name of the examiners

1. Dr. H M Muddapur.
2. Dr Jagadeesh Bhat

Signature with date

 2/2/22
online

K.L.E.Society's
KLE Technological University
Department of Biotechnology



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Certificate

Certified that the REU project work titled **"In-silico approach in targeting SARS-CoV-2 virus protein Mpro using fungal metabolites"** is a bonafide work carried out by **Shrikanth**, in partial fulfillment for the award of the degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/ suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.

Guide/Co-Guide

Dr. U. M. Muddapur

Head of Department

(Dr. B.S. Hungund)

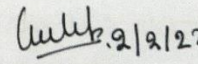
Registrar

(Dr. N.H. Ayachit)

Name of the examiners
date

1. U M Muddapur .
2. Dr Jagadeesh Bhat

Signature with

 2/2/22
online

K.L.E.Society's
KLE Technological University
Department of Biotechnology



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Certificate

Certified that the REU project work titled "**In-silico identification of Novel drug targets against *Pseudomonas aeruginosa* by subtractive genomics and molecular docking studies**" is a bonafide work carried out by **Aakanksha U K**, in partial fulfillment for the award of degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/ suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.

Guide
Dr. Zabin K. Bagewadi

Head of Department
Dr. B.S. Hungund

Registrar
Dr. N.H. Ayachit

Name of the examiners

1. Dr. Sikandar Mulla
2. Dr. Zabin K. Bagewadi

Signature with date

K.L.E. Society's
KLE Technological University
Department of Biotechnology



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Certificate

Certified that the REU project work titled "Genome mining of *Bacillus licheniformis* strain ZBM15 for secondary metabolites against novel drug targets in *Micrococcus luteus* by subtractive genomics approach and molecular dynamics" is a bonafide work carried out by **Ankita S. Kamalapurkar**, in partial fulfillment for the award of degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/ suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.

Guide

(Dr. Zabin K. Bagewadi)

Head of Department

(Dr. B.S. Hungund)

Registrar

(Dr. N.H. Ayachit)

Name of the examiners

1. Dr. Sikandar Mulla
2. Dr. Zabin K. Bagewadi

Signature with date

26/01/22

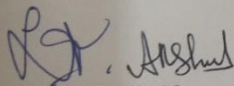
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KLE Technological University
Department of Biotechnology



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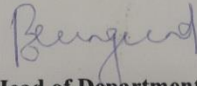
Certified that the REU project work titled "**Green Synthesis of Zinc Oxide Nanoparticles using *Raphanus sativus* leaf extract, its Characterization, and Biotechnological Applications**" is a bonafide work carried out by **ROSHAN SHAREEFSAHEB NADAF**, in partial fulfillment for the award of the degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/ suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.



Guide/ Co-Guide

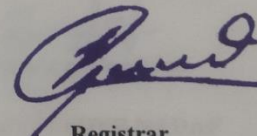
Dr. Laxmikant R. Patil

Prof. Anil R. Shet



Head of Department

Dr. B.S. Hungund



Registrar

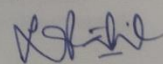
Dr. N.H. Ayachit

Name of the examiners

date

1. Dr. L. R. Patil
2. Dr. Seema. Patel

Signature with



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KLE Technological University
Department of Biotechnology



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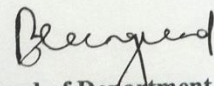
Certified that the REU project work titled "**Immobilization of Pectinase and Its Characterization**" is a bonafide work carried out by **Akhila Yallappa Olekar**, in partial fulfillment for the award of degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/ suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.

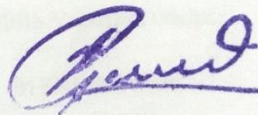
Guide/Co-Guide

Dr S V Desai 

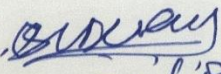
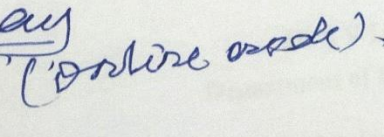
Prof Anil Shet 

Prof Sharanappa A


Head of Department
Dr B S Hungund


Registrar
Dr N H Ayachit

Name of the examiners

1. Dr S V Desai 
2. Dr Seema J Patel (Online mode), 

Signature with date

K.L.E.Society's
KLE Technological University Department of Biotechnology



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LEVERAGING KNOWLEDGE

Certificate

Certified that the REU project work titled "**Microbial population dynamics and diversity in sorghum-based traditional fermented food Nucchu Ambli**" is a bonafide work carried out by **Shivani Desai**, in partial fulfillment for the award of the degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.

Guide/Co-Guide
Dr. V. S. Hombalimath
Dr. S. V. Desai

Head of Department
(Dr. B.S. Hungund)

Registrar
(Dr. N.H. Ayachit)

Name of the examiners

- 1.
- 2 Dr. Prashant S. J (online)

Signature with date

K.L.E SOCIETY'S

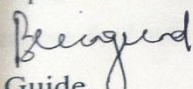
KLE TECHNOLOGICAL UNIVERSITY HUBBALLI - 580031



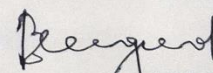
Department/School Of Biotechnology

CERTIFICATE

This is to certify that research on "Studies On Immobilization Of Halophilic Protease Producing Bacteria And Their Environmental Applications" is a bonafide work carried out by the student, in partial fulfillment of the award of Degree of Bachelor of Engineering in Biotechnology engineering during the year 2020-21. The research thesis has been approved as it satisfies the academic requirement with respect to the research work prescribed for the above-said program.


Guide
Dr. B. S. Hungund



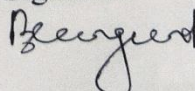

Head of School/HOD
Dr. B. S. Hungund

External Viva:

Name of Examiner

1. Dr. B. S. Hungund
2. Dr. Chetan J. S.
KVO

Signature


on-line Assessment

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KLE Technological University



KLE Technological
University

Creating Value
Leveraging Knowledge

Department/School of Biotechnology

Certificate

Certified that the REU project work titled " **In Silico Analysis of Staphyloxanthin Pigment from *Staphylococcus aureus* and its Interaction Studies** " is a bonafide work carried out by **B. Priyanka** , in partial fulfillment for the award of degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.

Guide/Co-Guide
(Dr. B.S. Hungund)

Head of Department
(Dr. B.S. Hungund)

Registrar
(Dr. N.H. Ayachit)

Name of the examiners

1. Dr. B. S. Hungund
2. Dr. Chetan. J.B.
K.U.B. Kanataka

Signature with date


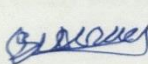
on-line Assessment.

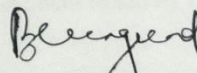
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KLE Technological University
Department of Biotechnology

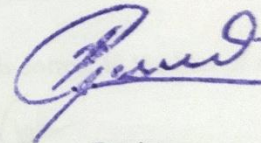


Certificate

Certified that the REU project work titled " Effects of Microbial Fermentation on Nutritional Profile of Sorghum Based Traditional Food- *Nucchu.Ambli*" is a bonafide work carried out by **Priyanka A Gadadavar**, in partial fulfillment for the award of the degree of **Bachelor of Engineering for VII semester in Biotechnology** during the year **2021-22**. It is certified that all the corrections/ suggestions indicated for the internal assessment have been incorporated in the report. The report has been approved as it satisfies the academic requirements prescribed for the Bachelor of Engineering Degree.



Guide/Co-Guide
Dr. V.S. Hombalimath
Dr. S.V. Desai


Head of Department
(Dr. B.S. Hungund)


Registrar
(Dr. N.H. Ayachit)

Name of the examiners

1. V.S. Hombalimath
2. Dr. Prashanth S J (Officer in charge)

Signature with date