



AY:2020-2021

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

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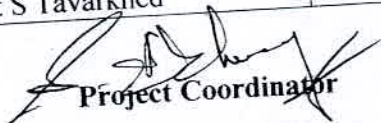
Phone:080-28 372800/1/2 Fax: 080-28 372797

DEPARTMENT OF BIOTECHNOLOGY

MINI PROJECT LIST-Academic Year 2020-21

Sub Code: 18BTMP68

Sl.no	Name of the students	USN	Title of the project	Guide
1.	Amrutha S Avikshasarika Gowda Chaitra U Kabbur Rachana G	1SG18BT002 1SG18BT006 1SG18BT012 1SG18BT038	Identification and isolation of Microorganisms involved in the spoilage of banana fruit	Dr. J S SallwinEbinesar Associate Professor
2.	Bhagyashree R Harshitha P S Varsha. K	1SG18BT009 1SG18BT020 1SG18BT048	A novel separation method for isolating dissolved and suspended solids in dairy waste	Dr. J S SallwinEbinesar Associate Professor
3.	Abhinandankanjikar Chandrmoli S Kaushik P M Nisar AhmedParasar	1SG18BT001 1SG18BT014 1SG18BT022 1SG18BT028	Extraction of biosurfactant	Dr.Soumya C Assistant Professor
4.	Shilpa S Pooja R Pooja Y K Pooja D L	1SG18BT044 1SG18BT032 1SG18BT034 1SG18BT031	Co Composting of coir pith with organic manure	Dr.Sowmya C Assistant Professor
5.	Santhosh G K Ruthwik K Shetty Srirama P Bhat Sharat S Tavarkhed	1SG18BT042 1SG18BT039 1SG18BT045 1SG18BT043	Pharmacological Activites of <i>Garciniacambogia</i>	Dr.Chethana K R Assistant Professor


Project Coordinator

Head of the Department
Dept. of Biotechnology
Sapthagiri College of Engineering
No. 14/5, Chikkasandra
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Bengaluru-57



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DEPARTMENT OF BIOTECHNOLOGY

MINI PROJECT LIST-Academic Year 2020-21

Sub Code: 18BTMP68

6.	N.Vamshipriya ChittojuPrerana Chinmayi.J Benita.S.Robin	1SG18BT025 1SG18BT016 1SG18BT015 1SG18BT008	A pilot study on enrichment of seed coating using waste fruit peel for seed growth	Dr.Chethana K R Assistant Professor
7.	Kanchana BK Suma K Monika M Nisha K Bhargavi Krishna	1SG18BT021 1SG18BT046 1SG18BT023 1SG18BT030 1SG18BT010	Indian medicinal plant database	Mrs.Ramya D L Assistant Professor
8.	Vaishnavi.B.L Bramari.A.Shetty Nisarga.P Dimple.B.H	1SG18BT047 1SG18BT011 1SG18BT029 1SG18BT019	Knowledge discovery of plants secondary metabolites	Mr.Prashanth Kumar H P Assistant Professor
9.	Dikshitha S Preethi H K Sahana M Pooja S Yadav	1SG18BT018 1SG18BT036 1SG18BT040 1SG18BT033	Drug likeness of plant secondary metabolites using Molsoft	Mr.Prashanth Kumar H P Assistant Professor
10	AnikaAnjanaGowda Aruna Mohan Nancy yadav NayanikaAishwarya	1SG18BT003 1SG18BT005 1SG18BT026 1SG18BT027	Nanotechnology/Nanomedicine in the treatment of neurological disorders	Dr. J S SallwinEbinesar Associate Professor

[Signature]
Project Coordinator

[Signature]
Head of Department
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DEPARTMENT OF BIOTECHNOLOGY

MINI PROJECT LIST-Academic Year 2020-21

Sub Code: 18BTMP68

	VrundaA patel	1SG18BT049	lot Based Automated Hydroponic Systems	Mrs.Kavya M V Assistant Professor
11.	Yashaswini.k	1SG18BT050		
	Chaitra. V.S	1SG18BT013		
	SahanaSheeli	1SG18BT041		
	Monisha.S	1SG18BT024	Coagulation of diary waste	Dr. J S SallwinEbinesar Associate Professor
12.	Dheeraj J	1SG18BT017		
	Praveen Kumar T S	1SG18BT035		
	Avinash K G	1SG18BT007		
	Rahul R	1SG18BT037		


Project Coordinator


HOD, BT
Head of the Department
Dept. of Biotechnology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bengaluru-560 057

A MINI PROJÉT ENTITLED
ISOLATION AND IDENTIFICATION OF MICROORGANISM
INVOLVED IN THE SPOILAGE OF BANANA FRUIT

Submitted to



DEPARTMENT OF BIOTECHNOLOGY
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57
~~Submitted to~~ **Vasvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi**
#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru - 560 057
KARNATAKA, INDIA

Submitted By

Amrutha .S: 1SG18BT002

Aviksha Sarika Gowda: 1SG18BT006

Chaitra .U. Kabbur: 1SG18BT012

Rachana .S: 1SG18BT038

Under the Guidance of

Dr. JSS Allwin

DEPARTMENT OF BIOTECHNOLOGY
SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57
~~Submitted to~~ **Vasvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi**
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DEPARTMENT OF BIOTECHNOLOGY

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Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

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KARNATAKA, INDIA

CERTIFICATE

This is to certify that Ms. Amrutha S (ISG18BT002), Ms. Aviksha Gowda (ISG18BT007),
Ms. Chitra U Kabbur (ISG18BT012), Ms. Rachana G. (ISG18BT038) who is a bonafide
student of Sapthagiri College of Engineering Bengaluru -57 has successfully completed Mini
Project entitled "Isolation and Identification of microorganism involved in the spoilage of
banana fruit" under the guidance of Prof. Dr. JSS Allwin during the year 2020-2021.


Signature of the Guide


Signature of the Mini
Project Coordinator


Signature of the
HOD

Head of the Department
Dept. of Bio-Technology
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Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

PROJECT ENTITLED

A Novel Separation Method for Isolating Dissolved and Suspended Solids in Dairy Waste

Submitted to



**VISVESVARAYA TECHNOLOGICAL UNIVERSITY
BELAGAVI-INDIA**

**In Partial fulfillment for the award of Degree
Bachelor of Engineering
in**

biotechnology

Submitted By

Bhagyashree.R (1SG18BT009)

Harshitha.PS(1S18BT020)

Varsha.K(1SG18BT048)

Under the Guidance of

Dr. Allwin Ebinesar J S S

Professor, Department of Biotechnology



DEPARTMENT OF BIOTECHNOLOGY

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KARNATAKA, INDIA

2020-2021

Principal

**Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057**

SAPTHAGIRI COLLEGE OF ENGINEERING



MINI PROJECT REPORT ON

A Novel Separation Method for Isolating Dissolved and Suspended Solids in Dairy Waste

**Submitted in partial fulfilment of the requirement for the award of degree of
BACHELOR OF ENGINEERING IN BIOTECHNOLOGY**

**Submitted by
Bhagyashree. R (1SG18BT009)
Harshitha.P S (1SG18BT020)
Varsha. K (1SG18BT048)**

**Under the Guidance of
Dr. Allwin Ebinesar J S S
Associate Professor**

DEPARTMENT OF BIOTECHNOLOGY

Academic year 2020-2021


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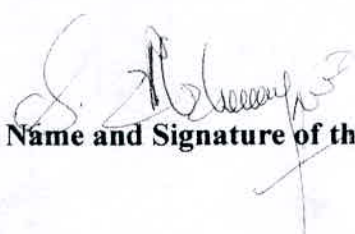
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DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that the Mini project entitled "A Novel Separation Method for Isolating Dissolved and Suspended Solids in Dairy Waste" has been carried out by Student name Bhagyashree. R (1SG18BT009), Harshitha.PS(1SG18BT020), Varsha.K(1SG18BT048) bonafide students of fifth semester, Sapthagiri College of Engineering, Bengaluru in partial fulfilment for the award of Bachelor of Engineering in Biotechnology Visvesvaraya Technological University (VTU), Belagavi during the year 2020-2021. It is certified that all corrections/suggestions indicated for internal assessment have been incorporated in the report deposited in the department library.


Name and Signature of the Guide

Name and Signature of HOD

(Dr . Veena. S. More)

Name and Signature of Principal

(Dr. H. Ramakrishna)


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

A MINI PROJECT ENTITLED
Extraction and Identification of Rhamnolipids from
Pseudomonas Putida for Bioremediation purposes

Submitted to



DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Heserghatta Main Road, Bengaluru- 560 057

KARNATAKA, INDIA

Submitted By

Name	USN
Abhinandan Kanjekar	1SG18BT001
Kaushik P M	1SG18BT022
Chandramouli S	1SG18BT014
Nisar Ahmed Parsar	1SG18BT028

Under the Guidance of

Dr. Soumya C

Assistant Professor, Department of Biotechnology

DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

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Sri Srinivasa Educational & Charitable Trust
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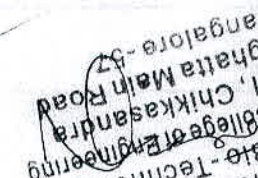
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that **Abhinandan Kanjekar (1SG18BT001)**, **Kaushik PM (1SG18BT022)**, **Chandramouli S (1SG18BT014)** and **Nisar Ahmed Parasara (1SG18BT028)** who is a bonafide student of Sapthagiri College of Engineering Bengaluru -57 has successfully completed Mini Project entitled **“Extraction and Identification of Rhamnolipids”** under the guidance of **Prof. Dr. Soumya C** during the year 2020-2021.


Signature of the Guide


**Signature of the Mini
Project Coordinator**


**Signature of the
HOD**
Head of the Department
Dept. of Bio-Technology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Heserghatta Main Road
Bengaluru-57


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Heserghatta Main Road
Bengaluru - 560 057

A MINI PROJET ENTITLED

"CO- COMPOSTING OF COIR PITH USING ORGANIC MANURE"

Submitted to



DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

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KARNATAKA, INDIA

Submitted By

SHILPA S 1SG18BT044

POOJA Y K 1SG18BT034

POOJA R 1SG18BT032

POOJA D L 1SG18BT031

Under the Guidance of

Dr. Sowmya C

Assistant professor

Department of Biotechnology

DEPARTMENT OF BIOTECHNOLOGY

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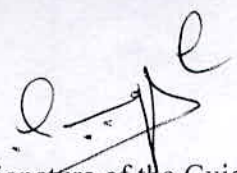


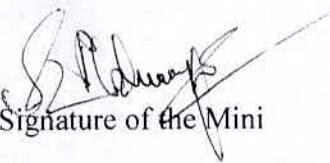
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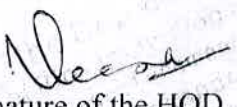
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that Ms. Shilpa S (ISG18BT044), Ms. Pooja R (ISG18BT032), Ms. Pooja Y K (ISG18BT034), Ms. Pooja D L (ISG18BT031) who is a bonafide student of Sapthagiri College of Engineering Bengaluru -57 has successfully completed Mini Project entitled "*Co-Composting of Coir pith using Organic manure*" under the guidance of Dr. Sowmya C during the year 2020-2021.


Signature of the Guide.


Signature of the Mini
Project Coordinator


Signature of the HOD


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

A MINI PROJET ENTITLED

PHARMACOLOGICAL PROPERTIES OF *Garcinia cambogia*

Submitted to



DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

KARNATAKA, INDIA

Submitted By

RUTHWIK K SHETTY

(1SG18BT039)

SANTHOSH G K

(1SG18BT042)

SHARAT S TAVARKHED

(1SG18BT043)

SRIRAMA P BHAT

(1SG18BT045)

Under the Guidance of

Dr. CHETHANA K R

Assistance Professor

DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

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KARNATAKA, INDIA

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Bengaluru - 560 057



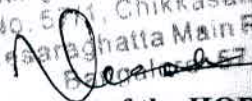
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#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that **Mr Ruthwik K Shetty (ISG18BT039), Mr Santhosh G K (ISG18BT042), Mr Sharat S Tavarkhed (ISG18BT043), Mr Srirama P Bhat (ISG18BT045)**, who is a bonafide student of Sapthagiri College of Engineering, Bengaluru -57 has successfully completed his Mini Project entitled **"Pharmacological Properties of *Garcinia cambogia*"** under the guidance of **Dr. Chethana K R** during the year 2020-2021.


Signature of the Guide


Signature of the Mini Project
Coordinator

Head of the Department
Dept. of Bio - Technology
Sapthagiri College of Engineering
No. 5/1, Chikkasandra
Hesaraghatta Main Road
Bengaluru - 560 057

Signature of the HOD


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

A MINI PROJECT ENTITLED

A Pilot Study on Enrichment of Seed Coating using Fruit Peel for Seed Coating

SUBMITTED TO



SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

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Accredited by NAAC -A GRADE

Department of Biotechnology

Submitted By

NAME : N. VAMSHI PRIYA

CHINMAYI J

CHITTOJU PRERANA

BENITA S ROBIN

Under the Guidance of

Assistant Professor Dr CHETHANA K. R

SAPTHAGIRI COLLEGE OF ENGINEERING

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Department of Biotechnology


Principal

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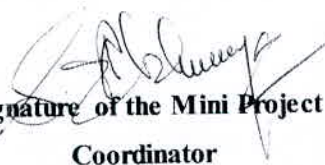
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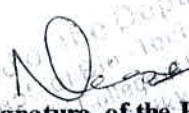
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that Ms. BENITA.S.ROBIN (1SG18BT008), Ms. CHINMAYI .J (1SG18BT015), Ms. CHITTOJU PRERANA (1SG18BT016), Ms. N.VAMSHI PRIYA (1SG18BT025) who is a bonafide student of Sapthagiri College of Engineering , Bengaluru -57 have successfully completed Mini project entitled **"A PILOT STUDY ON ENRICHMENT OF SEED COATING USING FRUIT PEEL FOR SEED COAT"** under the guidance of Dr. CHETHANA K R during the year 2020-2021.


Signature of the guide


Signature of the Mini Project
Coordinator


Signature of the HOD


Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

VISVESVARAYA TECHNOLOGICAL UNIVESITY

BELAGAVI – 590 018

A Mini Project Report On

MEDICINAL PLANT DATABASE



BY

KANCHANA B K (1SG18BT021)

BHARGAVI KRISHNA (1SG18BT010)

NISHA K (1SG18BT030)

MONIKA M (1SG18BT023)

SUMA K (1SG18BT046)

Submitted in partial fulfilment of requirement for the award of the degree of

BACHELOR OF ENGINEERING

IN

BIOTECHNOLOGY

Under the guidance of

Prof. RAMYA D L

Assistant Professor



DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING

(Affiliated to Visvesvaraya Technological University and Approved by AICTE, New Delhi) Accredited by

NAAC with 'A' Grade

Bengaluru , Karnataka 560057

2020-2021


Principal
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14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

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by NAAC with 'A' Grade

Bengaluru , 560057

DEPARTMENT OF BIOTECHNOLOGY



CERTIFICATE

This is to certify that the project work entitled **Medicinal Plant Database** is a bonafide work carried out by

KANCHANA B K	1SG18BT021
BHARGAVI KRISHNA	1SG18BT010
NISHA K	1SG18BT030
MONIKA M	1SG18BT023
SUMA K	1SG18BT046

in partial fulfillment for the award of degree of **Bachelor of Biotechnology** of Visvesvaraya Technological University, Belagavi during the year 2020-21. It is certified that all the suggestions indicated during internal assessment have been incorporated in the report and this report satisfies the academic requirement in respect of project work phase 1 prescribed for the degree.

Prof. Ramya D L

Guide

Dr. Veena S More

Head of the Department

Dr. H Ramakrishna

Principal

Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057

A MINI PROJECT ENTITLED
KNOWLEDGE DISCOVERY OF PLANT SECONDARY
METABOLITES

Submitted to



DEPARTMENT OF BIOTECHNOLOGY
SAPTHAGIRI COLLEGE OF ENGINEERING BANGLORE -57
(Affiliated to Visvesvaraya technological university Belagavi approved by
AICTE New Delhi). Hesaraghatta main road, Bangalore – **560 057**
KARNATAKA, INDIA

Submitted by

Bramari A Shetty – 1SG18BT011

Dimple. B.H – 1SG18BT019

Nisarga. P – 1SG18BT029

Vaishnavi. B.L – 1SG18BT047

Under the guidance of

Prof. Prashanth Kumar. H.P

DEPARTMENT OF BIOTECHNOLOGY
SAPTHAGIRI COLLEGE OF ENGINEERING BANGLORE -57
(Affiliated to Visvesvaraya technological university Belagavi approved by
AICTE New Delhi). Hesaraghatta main road, Bangalore – **560 057**
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SAPTHAGIRI COLLEGE OF ENGINEERING BANGLORE -57
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approved by AICTE New Delhi). Hesaraghatta main road, Bangalore –
560 057

CERTIFICATE

This is to certify that **Ms. Nisarga.P (1SG18BT029), Ms. Dimple. B.H (1SG18BT019), Ms Vaishnavi. B. L (1SG18BT047), Ms Bramari A Shetty (1SG18BT011)** who is bonafide student of sapthagiri collage of engineering bengaluru-57 has successfully completed mini project entitled **“KNOWLEDGE DISCOVERY OF PLANT SECONDARY METABOLITES “** under the guidance of **prof. Prashanth Kumar. H. P** during the year 2019-2020.

Signature of the guide

**signature of the mini
Project coordinator**

Department
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Bengaluru - 560 057

A MINI PROJCT ENTITLED
DRUG-LIKENESS OF PLANT SECONDARY METABOLITES
USING MOLSOFT TOOL

Submitted to



DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING

Affiliated to Visvesvaraya Technological University, Belagavi & Approved by AICTE, New Delhi)

#14/5, Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057

KARNATAKA, INDIA

Submitted By

Dikshitha S (1SG18BT018)

Pooja S Yadav (1SG18BT033)

Preethi H K (1SG18BT036)

Sahana M (1SG18BT040)

Under the Guidance of

Prof. Prashanth Kumar H P

DEPARTMENT OF BIOTECHNOLOGY

SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57

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DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that *Ms. Pooja S Yadav* (ISG18BT033), *Ms. Dikshitha S* (ISG18BT018), *Ms. Preethi H K* (ISG18BT036), and *Ms. Sahana M* (ISG18BT040), who are bonafide students of Sapthagiri College of Engineering, Bengaluru -57 has successfully completed their Mini Project entitled “**Drug-Likeness of plant secondary metabolites using Molsoft Tool**” under the guidance of Prof. Prashanth Kumar H P during the year 2020-2021.


 Signature of the Guide


 Signature of the Mini Project
 Coordinator


 Signature of the HOD


 Principal
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A MINI PROJECT ENTITLED
Nanomedicine In The Treatment Of
Neurological Disorder

Submitted to



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Anika Anjana Gowda	1SG18BT003
Aruna Mohan	1SG18BT005
Nancy Yadav	1SG18BT026
Nayanika Aishwarya	1SG18BT027
Vrunda A Patel	1SG18BT049

Under the Guidance of

Dr.JSS Allwin Ebinesar

Department of Biotechnology

Principal

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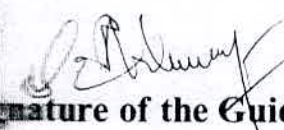
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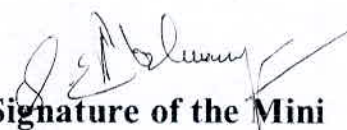
Bengaluru-560 057

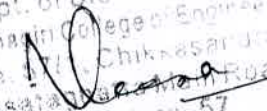
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that **Anika Anjana gowda (1SG18BT003), Aruna Mohan (1SG18BT005), Nancy Yadav (1SG18BT026), Nayanika Aishwarya (1SG18BT027) and Vrunda A Patel (1SG18BT049)** who is a bonafide student of Sapthagiri College of Engineering Bengaluru -57 has successfully completed Mini Project entitled "**Nanomedicine In The Treatment Of Neurological Disorder**" under the guidance of **Dr. JSS Allwin Ebinesar** during the year 2020-2021.


Signature of the Guide


Signature of the Mini
Project Coordinator

Head of the Department
Dept. of Bio-Technology
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Signature of the

HOD


Principal
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A MINI PROJET ENTITLED
“IoT BASED AUTOMATED HYDROPONIC SYSTEM”

Submitted to



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YASHASWINI K-1SG18BT050
CHAITRA V S-1SG18BT013
SAHANA SHEELI-1SG18BT041
MONISHA S-1SG18BT024

Under the Guidance of

KAVYA MV –ASSISTANT PROFESSOR

DEPARTMENT OF BIOTECHNOLOGY
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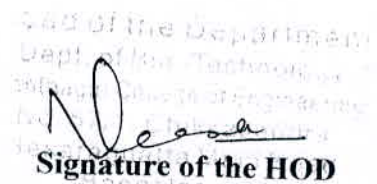
This is to certify that **Ms. CHAITRA V.S (1SG18BT013), Ms. MONISHA S (1SG18BT024), Ms. SAHANA SHEELI (1SG18BT041), Ms. YASHASWINI K (1SG18BT050)** who is a bonafide student of Sapthagiri College Of Engineering Bengaluru-57 has successfully completed Mini Project entitled **"IoT BASED AUTOMATED HYDROPONIC SYSTEM"** under the guidance of **PROF. KAVYA M.V** during the year 2020-2021.



Signature of the Guide



Signature of the Mini Project
Coordinator



Signature of the HOD



Principal

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A MINI PROJECT ENTITLED
“Coagulation of Dairy waste”

Submitted to



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Submitted By

AVINASH K G (1SG18BT007)
DHEERAJ J (1SG18BT017)
PRAVEENKUMAR T S (1SG18BT035)
R RAHUL (1SG18BT037)

Under the Guidance of

Dr. J S S ALLWIN EBINESAR
Associate Professor, Dept. of Biotechnology
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CERTIFICATE

This is to certify that **Avinash K G (1SG18BT007), Dheeraj J(1SG18BT017), Praveenkumar T S (1SG18BT035) & R Rahul (1SG18BT037)** respectively who are bonafide students of Sapthagiri College of Engineering , Bengaluru -57 has successfully completed his/her Mini Project entitled **"Coagulation Of Dairy waste"** under the guidance of **Dr.Prof J S S Allwin Ebinesar** during the year 2020-2021.

Signature of the Guide

Signature of the Mini Project
Coordinator

Signature of the HOD

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