



2023-2024

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
 Web: www.sapthagiri.edu.in, Email: principal@sapthagiri.edu.in,
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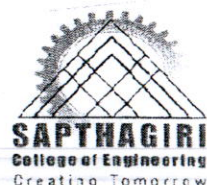
DEPARTMENT OF BIOTECHNOLOGY
4th Year Project Batch List Academic Year: 2023-2024

| Sl.No | Batch No | Student Group | USN No | Guide | Project Title |
|-------|----------|---------------------|------------|--------------------|---|
| 1. | B1 | Chethana R | 1SG20BT013 | Dr.Chaitra B S | Extraction of natural dyes from flowers |
| 2. | | Deekshitha M | 1SG20BT015 | | |
| 3. | | Ranjitha C M | 1SG20BT045 | | |
| 4. | | Sanjana S S | 1SG20BT049 | | |
| 5. | B2 | Ananya B S | 1SG20BT007 | Dr.Kiran Kumar B | Cloning and expression of immunogenic epitope of human papilloma virus |
| 6. | | Raksha S | 1SG20BT043 | | |
| 7. | | Sudiksha K Kumar | 1SG20BT053 | | |
| 8. | | Vamshitha R shetty | 1SG20BT058 | | |
| 9. | B3 | Deepika P | 1SG20BT016 | Dr.Gouri Mirji | Phytochemical screening and anti-inflammatory properties of <i>Garcinia mangostana</i> |
| 10. | | Ganavi N | 1SG20BT022 | | |
| 11. | | Smrithi Rao | 1SG20BT052 | | |
| 12. | B4 | Namita Krishnakumar | 1SG20BT031 | Dr. Pradima Britto | Extraction of essential oils from flowers, fruits and herbs: process optimization, study of products and plant designing. |
| 13. | | Savitha M | 1SG20BT050 | | |
| 14. | | Sharon Raj | 1SG20BT051 | | |
| 15. | | Aastha Roy | 1SG20BT001 | | |

Seemay
 Signature of Project Coordinator

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

Head of the Department
 Dept. of Bio - Technology
 Sapthagiri College of Engineering
 #14/5, Chikkasandra, Hesaraghatta Main Road
 Bengaluru - 57



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DEPARTMENT OF BIOTECHNOLOGY

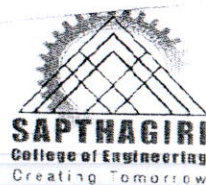
4th Year Project Batch List Academic Year: 2023-2024

| | | | | | |
|-----|----|-------------------------|------------|--------------------|--|
| 16. | B5 | Gayathri S | 1SG20BT023 | Dr.Chaitra B S | Isolation and extraction of thymoquinone evaluating its pharmacokinetics approach |
| 17. | | Pravalika K V | 1SG20BT040 | | |
| 18. | | Deepthi PM | 1SG20BT017 | | |
| 19. | | Nitheesh S | 1SG20BT036 | | |
| 20. | B6 | Alice Jennifer | 1SG20BT004 | Dr.Soumya C | Biosynthesis of carbon nanoparticles using J regia (Walnut) shells and its application in bioremediation for the removal of heavy metals from waste water and analysis its anti-microbial properties |
| 21. | | Priyanka V | 1SG20BT041 | | |
| 22. | | P Swathi | 1SG20BT037 | | |
| 23. | | Annappa reddy Trinayani | 1SG20BT008 | | |
| 24. | B7 | J Joylynn grace | 1SG20BT025 | Dr.Gouri Mirji | Biological synthesis of zincbased nanoparticles using secondary metabolites from <i>Escherichia thuringiensis</i> and their larvicidal activity against mosquito |
| 25. | | Pooja.M | 1SG20BT038 | | |
| 26. | | Kruthi J | 1SG20BT030 | | |
| 27. | B8 | Vibha samartha | 1SG20BT61 | Dr. Pradima Britto | Phytochemical screening of <i>Ruta graveolens</i> for its antimicrobial, anticancer activity(MCF-7) for cancer |
| 28. | | Upputuri Jahnavi | 1SG20BT057 | | |
| 29. | | Varshitha NR | 1SG20BT59 | | |
| 30. | | Bhumika BV | 1SG20BT010 | | |

Signature of Project Coordinator

Principal
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Bengaluru - 560 057

Head of the Department
Dept. of Bio - Technology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road



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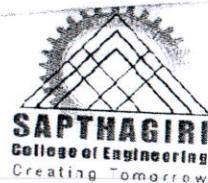
4th Year Project Batch List Academic Year: 2023-2024

| | | | | | |
|-----|-----|-------------------------|------------|------------------|--|
| 31. | B9 | Tanu Kumar.C | ISG20BT056 | Dr.Kavitha Joshi | Synthesis, characterization and applications of cellulose from discarded cigarette butts. |
| 32. | | Raksha. K | ISG20BT042 | | |
| 33. | | Sushma.S | ISG20BT054 | | |
| 34. | B10 | K.Narahari | ISG20BT027 | Dr. Seema S | Development and Characterization of bio-polymeric membranes by using polysaccharides |
| 35. | | Dharani G | ISG20BT019 | | |
| 36. | | Nischitha KS | ISG20BT035 | | |
| 37. | | Swathi Bharadwaj R | ISG20BT055 | | |
| 38. | B11 | Divya K N | ISG20BT020 | Dr.Kiran Kumar B | Isolation of <i>S.enfoiatus</i> from Mangrove stem and enhancement of leupeptin production through fermentation techniques |
| 39. | | Amina Farheen | ISG20BT005 | | |
| 40. | | Asfia Sultana | ISG20BT009 | | |
| 41. | B12 | Abdul Samad | ISG20BT002 | Dr.Veena S More | Optimization of physical parameters for enhancement of Erythromycin production with feeding available cheap nitrogen sources and carbon sourcesin "Saccharopolyspora erythraea |
| 42. | | Chetan Kaginelli | ISG20BT012 | | |
| 43. | | G L Nikhil Kumar Reddy | ISG20BT021 | | |
| 44. | | S N Megha Mourya Nandan | ISG20BT047 | | |
| 45. | B13 | Varun S | ISG20BT060 | Prof.Ramya | Green synthesis of zinc oxide nano particles using Murrayakoenigii and the study their anti microbialanti |
| 46. | | Chaithra Shree A | ISG20BT011 | | |
| 47. | | Rumana Banu | ISG20BT046 | | |

Seema
Signature of Project Coordinator

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

Head of the Department
 Dept. of Bio - Technology
 Sapthagiri College of Engineering
 Chikkasandra



2023-2024

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DEPARTMENT OF BIOTECHNOLOGY
4th Year Project Batch List Academic Year: 2023-2024

| | | | | | |
|-----|-----|--------------------------|------------|------------------|--|
| 48. | B14 | Rakshith R | 1SG20BT044 | Prof.Rajalakshmi | oxidant and anti-cancerous act Synthesis, characterization of copper n extraoted from catnip leaves and its ap mosquito repellent |
| 49. | | Dhanush Hallikar | 1SG20BT018 | | |
| 50. | | Dhanush P | 1SG20BT014 | | |
| 51. | B15 | Amogha varsha G | 1SG20BT006 | Dr.Kavitha | Green synthesis of selenium nano part ecliptaprostrata extract and its anti canc cancer |
| 52. | | Harshitha Reddy G | 1SG20BT024 | | |
| 53. | | Kushi Bhavani K Singh | 1SG20BT029 | | |
| 54. | B16 | Aishwarya B L | 1SG20BT003 | Dr. Seema | Green Synthesis of chitosan nano parti Mexican mint leaf for application of canc |
| 55. | | Nesara M | 1SG20BT033 | | |
| 56. | | Prathiksha GS | 1SG20BT039 | | |
| 57. | | Niranjan M | 1SG20BT034 | | |

Seema
 Signature of Project Coordinator

Seema
 Head of the Department
 Dept. of Bio -Technology
 Sapthagiri College of Engineering
 No. 57/1, Chikkasandra



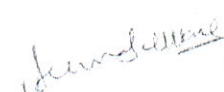
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NAAC -A GRADE, #14/5 Chikkasandra, Hesaraghatta Main Road, Bengaluru- 560 057)

CERTIFICATE

This is to certify that Ms. Chethana R (1SG20BT013), Ms. Deekshitha M (1SG20BT015), Ms. Sanji C M (1SG20BT045) Ms. Sanjana S S (1SG20BT049) who are a Bonafide students at Sapthagiri College of Engineering Bengaluru -57 has successfully completed Project entitled "FLORAL MEDICINE: BOUGAINVILLEA'S ANTI CANCER POTENCY" under the guidance of Dr. Chaitra B S during the year 2023- 2024.



Signature of Project
Coordinator


Signature of Guide


Signature of HOD

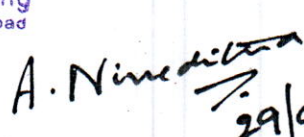

Signature of Principal

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


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

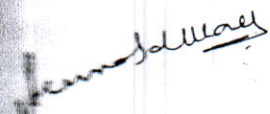

INTERNAL EXAMINER

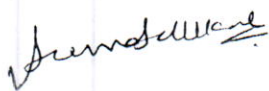
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EXTERNAL EXAMINER


CERTIFICATE


This is to certify that Ms. Nesara M(1SG20BT033), Mr. Niranjan M(1SG20BT034),
a. ~~Pratiksha~~ GS (1SG20BT039), who is a bonafide student of Sapthagiri College
Engineering Bengaluru -57 has successfully completed Project Synopsis entitled
"Presynthesis of chitosan with mexican mint leaf for application of cancer
treatment" under the guidance of Dr. Seema Sakkara during the year 2023-2024.


Signature of project guide

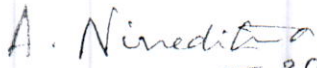

Signature of project coordinator


Signature of HOD
Head of Department
Dept. of Bio-Technology
Sapthagiri College of Engineering
No. 57/11, Chikkasandra
Hesaraghatta Main Road
Bangalore -57


Signature of Principal
Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 067


30/5/24
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Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road
Bangalore - 560 067


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CERTIFICATE

This is to certify that Ms. ANANYA B S (ISG20BT007), Ms. RAKSHA S (ISG20BT043), Ms. SUDIKSHA K KUMAR (ISG20BT053) and VAMSHITHA R SHETTY (ISG20BT058), who are Bonafede student of Sapthagiri College of Engineering Bengaluru -560057 have successfully completed Project entitled **"CLONING AND EXPRESSION OF IMMUNOGENIC EPITOPE OF HUMAN PAPILLOMAVIRUS"** under the guidance of Dr Kiran Kumar B during the year 2023 -2024.

Signature of the
Guide

Signature of the Project
Coordinator

Signature of the
HOD

Signature of the Principal
Principal

Head of the Department
Dept. of Bio-Technology
Sapthagiri College of Engineering
Bengaluru - 560 057

Sapthagiri College of Engineering
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Bengaluru - 560 057

Kjosh 29/5/24

INTERNAL EXAMINER

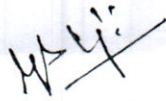
A Nimesh 29/05/2024

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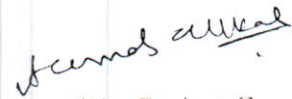
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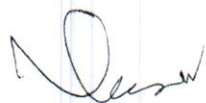
This is to certify that **Ms. DEEPIKA P (ISG20BT016), Ms. GANAVI N (ISG20BT022) and Ms. SMRITHI B (ISG20BT052)** who are bonafide students of Sapthagiri College of Engineering Bengaluru-560057 have successfully completed a Project entitled "**Phytochemical screening and Anti-inflammatory properties of Garcinia mangostana**" under the guidance of **Dr. Gouri Mirji** during the year 2023-2024.



Signature of the Guide



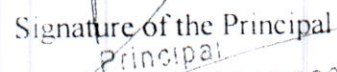
Signature of the Project Coordinator



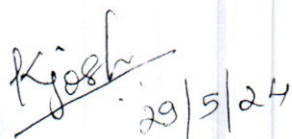
Signature of the HOD
Head of the Department
Dept. of Bio-Technology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bangalore -57



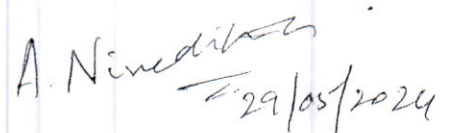
Principal
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14/5, Chikkasandra, Hesaraghatta Main Road
Bengaluru - 560 057



Signature of the Principal
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057



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Department of Biotechnology, Sapthagiri College of Engineering

DEPARTMENT OF BIOTECHNOLOGY

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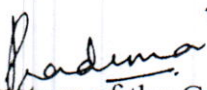
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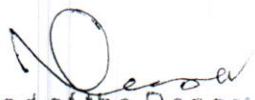
KARNATAKA, INDIA

CERTIFICATE

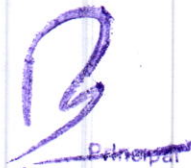
This is to certify that Ms. Aastha Roy (1SG20BT001), Ms. Namita Krishnakumar (1SG20BT031), Ms. Savitha M (1SG20BT050), Ms. Sharon Raj (1SG20BT051) who are bonafide students of Sapthagiri College of Engineering Bengaluru -57 has successfully completed Project Synopsis entitled "*Extraction of essential oil from Flowers, Fruits and Herbs: Process Optimization, Study of Products and Plant Designing*" under the guidance of Prof. Dr. Pradima Britto during the year 2023-2024.

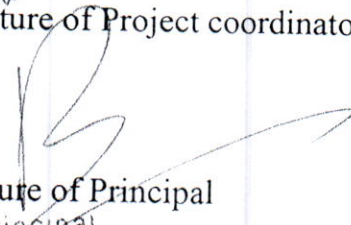

Signature of the Guide



Signature of Project coordinator


Head of the Department
Dept. of Bio-Technology
Sapthagiri College of Engineering
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Signature of the External Examiner

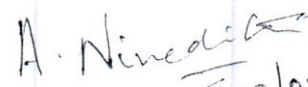

Principal


Signature of Principal
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29/5/24

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29/05/2024
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DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that **Ms. Deepthi PM (1SG20BT017), Ms. Gayathri S (1SG20BT023), Mr. Nitheesh S (1SG20BT036) and Ms. Pravalika KV(1SG20BT040)**, who is a bonafide students of Sapthagiri College of Engineering Bengaluru-560057 has successfully completed Major Project Phase-1 entitled **“Isolation and extraction of Thymoquinone & Evaluating its Pharmacokinetics approach”** under the guidance of Dr Chaitra B S during the year 2023–2024.

Signature of the HOD

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

Signature of the Project co-ordinator

Signature of the Guide

Signature of the Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
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K. S. S. 29/5/24

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A. N. S. 29/05/2024
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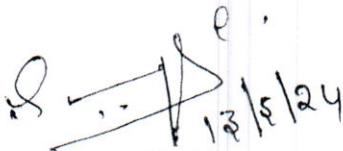


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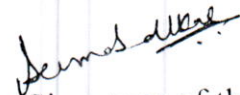
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that **Ms. Alice Jennifer (1SG20BT004), Ms. Priyanka. V (1SG20BT041), Ms. P. Swathi (1SG20BT037), Ms. Annapareddy Trinayani Reddy (1SG20BT008)**, who is a bonafide student of Sapthagiri College of Engineering Bengaluru -560057 has successfully completed Major Project entitled **“Biosynthesis of Carbon nanoparticles using *Juglans regia* (walnut) shells and its application in bioremediation for the removal of heavy metal Nickel from waste water and analyze its anti-microbial properties”** under the guidance of Dr Soumya C during the year 2023–2024.


13/5/24

Signature of the Guide



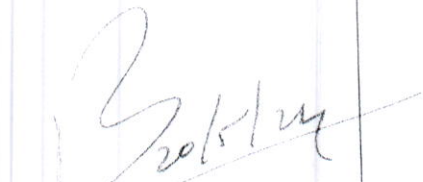
Signature of the
Project Coordinator



Signature of the
Dept. of Bio-Technology
HOD
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bangalore -57

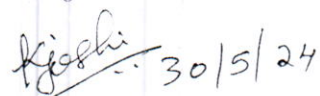


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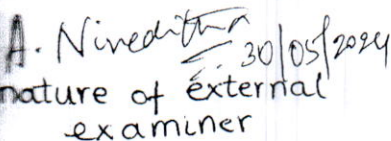


Signature of the
Principal

Sapthagiri College of Engineering
Chikkasandra Hesaraghatta Road
Bangalore-560 057


30/5/24

Signature of internal
examiner


30/05/2024
Signature of external
examiner



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CERTIFICATE

This is to certify that **Ms. J Joylynn Grace(1SG20BT025), Ms. Kruthi J (1SG20BT030), Ms. Pooja M(1SG20BT038)** who are bonafide students of Sapthagiri College of Engineering Bengaluru -560057 ~~has~~ successfully completed Major Project entitled **“BIOLOGICAL SYNTHESIS OF ZINC-BASED NANOPARTICLES USING SECONDARY METABOLITES FROM BACILLUS THURINGIENSIS AND THEIR LARVICIDAL ACTIVITY AGAINST MOSQUITOES”** under the guidance of **Dr. Gouri Mirji** during the year 2023- 2024.

Signature of the Guide

Signature of the
Project Coordinator

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

Principal
Sapthagiri College of Engineering
14/5, Chikkasandra, Hesaraghatta Main Road

Signature of the
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore- 560 057

INTERNAL
EXAMINER :-

29/5/24

A. N. N. N.
EXTERNAL
EXAMINER :-
29/05/2024



SAPTHAGIRI COLLEGE OF ENGINEERING, BENGALURU-57
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New Delhi)

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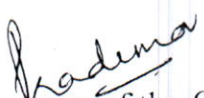
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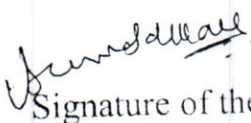
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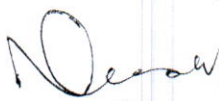
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

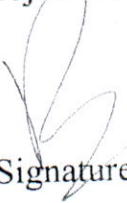
This is to certify that **Ms. Bhoomika B V (ISG20BT010)** **Ms. Upputuri Jahnavi (ISG20BT057)** **Ms. Varshitha N R (ISG20BT059)**, **Ms. Vibha Samatha (ISG20BT061)** who is a bonafide student of Sapthagiri College of Engineering Bengaluru -560057 has successfully completed Project Synopsis entitled "**Phytochemical screening of Ruta graveolens plant and its antimicrobial, anticancer activity (MCF-7) for breast cancer**" under the guidance of Dr. Pradima Britto during the year 2023-2024.

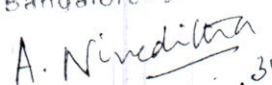

Signature of the Guide

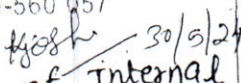

Signature of the
Project Coordinator


Signature of the
Head of the Department
Dept. of Bio-Technology
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bangalore-57


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


Signature of the
Principal
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road,
Bangalore-560 057


signature of External
Examiner 30/05/2024


signature of Internal
Examiner 30/5/24



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DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify **Mr. K Narahari (1SG20BT027), Ms. Raksha K (1SG20BT042), Ms. Sushma S (1SG20BT054), Mr. Tanu Kumar C (1SG20BT056)** who is a bonafide students of Sapthagiri College of Engineering Bengaluru-560057 has successfully completed Major Project Entitled **"Synthesis, Characterization and Application of Cellulose from Discarded Cigarette Butts."** under the guidance of **Dr. Kavitha V Joshi** during the year 2023-2024.

Signature of the Guide

Signature of the
Project Coordinator

Signature of the
Head of the Department
HOD Technology
Sapthagiri College of Engineering
#14/5, Chikkasandra
Hesaraghatta Main Road
Bengaluru -57

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

Signature of the
Principal
Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bengaluru- 560 057

29/5/24

INTERNAL EXAMINER

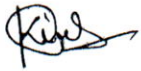
29/05/2024

EXTERNAL EXAMINER

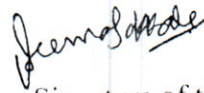
DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that **Ms. AMINA FARHEEN (ISG20BT005)**, **Ms. ASFIA SULTANA (ISG20BT009)** and **ABDUL SAMAD (ISG20BT002)** who is a bonafide student of Sathagiri College of Engineering Bengaluru -560057 has successfully completed Project titled "Isolation of *Streptomyces exfoliatus* and enhancement of LEUPEPTIN production through fermentation techniques" under the guidance of **Dr. Kiran Kumar** during the year 2023-2024.

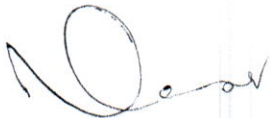


Signature of the Guide




Signature of the

Project Coordinator



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



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

Signature of the

Principal

Kjoshi 29/5/24

Internal Examiner

A. Nivedha 29/05/2024

External Examiner



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CERTIFICATE

This is to certify that Chetan Kagineelli (1SG20BT012), G L Nikhil Kumar Reddy (1SG20BT021), S N Megha Mourya Nandan (1SG20BT047) and Varun S (1SG20BT060) who are bonafide students of Sapthagiri College of Engineering, Bengaluru -57 have successfully completed Major Project entitled "Enhanced Erythromycin Production in *Saccharopolyspora erythraea* by cultivating it with different seed media and optimizing nitrogen source and carbon source in feed media" under the guidance of Dr. Veena S More, Head of Department, Department of Biotechnology, Sapthagiri College of Engineering, in partial fulfillment for the award of Bachelor of Engineering in Biotechnology of Visvesvaraya Technological University, Belagavi during the academic year 2022-2023. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the Report deposited in the departmental library. The project report has been approved as it satisfies the academic requirements with respect to Project work prescribed for the said degree.

Dr. Veena S More
(Project Guide)

Dr. Seema
(Project Coordinator)

Head of Department
Dr. Veena S More
Dept. of Bio-Technology
(Head of the Department)
Sapthagiri College of Engineering
No. 57/1, Chikkasandra
Hesaraghatta Main Road
Bengaluru-57

Dr. Ramakrishna H
(Principal)
Principal

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

Name and Signature of Examiners

1. 30/05/24
2. 30/05/2024



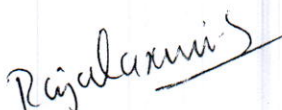
**SAPTHAGIRI COLLEGE OF ENGINEERING,
BENGALURU-57**

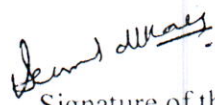
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This is to certify that **Ms. Chaithra Shree A (1SG20BT011)** and **Ms. Rumana Banu (1SG20BT046)**, who are bonafide students of Sapthagiri College of Engineering Bengaluru -560057 have successfully completed Project entitled "Green synthesis of zinc oxide nanoparticles using *Murraya koenigii* and its anti-microbial activity, anti-oxidant and anti-cancerous activity" under the guidance of Prof. Rajalaxmi S, Assistant Professor, Department of Biotechnology, Sapthagiri College of Engineering, during the year 2023-2024.


Signature of the Guide

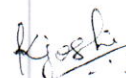

Signature of the
Project Coordinator


Signature of the
HOD
Department of Bio-Technology
Sapthagiri College of Engineering
#14/5, Chikkasandra
Hesaraghatta Main Road
Bengaluru-57

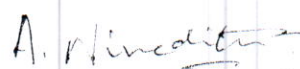

Signature of the
Principal
Sapthagiri College of Engineering
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Bengaluru - 560 057


Signature of the
Principal
Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore- 560 057

INTERNAL EXAMINER


30/5/24

EXTERNAL EXAMINER


30/05/2024

DEPARTMENT OF BIOTECHNOLOGY

CERTIFICATE

This is to certify that **Mr. AMOGHA VARSHA G (1SG20BT006), Mr. DANUSH P(1SG20BT014), Mr. DHANUSH HALLIKAR S(1SG20BT018) and Mr. RAKSHITH R (1SG20BT044)** who are bonafide students of Sapthagiri College of Engineering Bengaluru-560057 have successfully begun a Project entitled “Synthesis and Characterization of Copper Nanoparticles using Nepata cataria and its application as Managing Disease causing vectors” under the guidance of **Prof. Rajalaxmi** during the year 2023–2024.

Internal Examiner :

Kjish
30/5/24

For Junesdell

Signature of the Guide

Junesdell

Signature of the
Project Coordinator

A. Vinod
30/05/2024
External Examiner

Junesdell
Head of the Department
Dept. of Bio-Technology
Sapthagiri College of Engineering
No. 57/5 Chikkasandra
Hesaraghatta Main Road
Bangalore -57

Principal
Sapthagiri College of Engineering
Chikkasandra

B
Signature of the
Principal

Sapthagiri College of Engineering
Chikkasandra, Hesaraghatta Road
Bangalore-560 057

DEPARTMENT OF BIOTECHNOLOGY

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CERTIFICATE

This is to certify that **Ms. Khushi Bhavani K Singh (1SG20BT029), Ms. Harshitha Reddy G (1SG20BT024), Aishwarya B L (1SG20BT003)** who is a bonafide student of Sapthagiri College of Engineering Bengaluru -57 has successfully completed Project Synopsis entitled **"GREEN SYNTHESIS OF SELENIUM NANO PARTICLES FROM *ECLIPTA PROSTRATA* LEAF EXTRACT AND ITS ANTI CANCER ACTIVITY ON BREAST CANCER CELL LINES AND ANTIBACTERIAL ACTIVITY"** under the guidance of **Dr. Kavitha Joshi** during the year 2023-2024.

Kjoshi

Signature of the Guide

Dr. Kavitha Joshi

Signature of the

[Signature]

Signature of the

Project Coordinator

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

Kjoshi 20/5/24
INTERNA EXAMINER

[Signature]

Principal

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

A. Nivedita 20/5/24
EXTERNAL EXAMINER