

UNIVERSITIY

Department of studies in Chemistry

Davangere University
Shivagangotri, Davangere-577007
Karnataka State
INDIA

Date:-08/11/2021

CERTIFICATE

This is to certify that the project work entitled "Synthesis and characterization of poly(acrylamide) hydrogel for levofloxacin drug release study" submitted by Ms. Anusha H. Y. (Reg. No.: CH191004) and Ms. Divya J. (Reg. No.: CH191012) for the award of the Master of Science in Chemistry, based on the results of experiments carried out by them under my supervision.

Supervisor

Dr. Mamatha G. P.

Professor

Department of studies in Chemistry
Davangere University
Shivagangotri, Davangere-577007

Dr. B. P. Nandeshwarappa

Chairman

Department of swares in Chemistry

Shivagangoni, Bavangero 977007

Examiner Signature

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Department of studies in Chemistry

Davangere University Shivagangotri, Davangere-577007 Karnataka State INDIA

Date:- 08 / 11 /2021

CERTIFICATE

This is to certify that the project work entitled "Synthesis and characterization of poly(acrylamide-co-acrylic acid) hydrogel for moxifloxacin drug release study" submitted by Ms. Rashmi B. (Reg. No.: CH191032) and Ms. Vinutha T. (Reg. No.: CH191051) for the award of the Master of Science in Chemistry, based on the results of experiments carried out by them under my supervision.

Supervisor

Dr. Mamatha G. P.

Professor

Department of studies in Chemistry

Davangere University Shivagangotri, Davangere-577007 Dr. B. P. Nandeshwarappa

Chairman

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Shivagangoth, Tavangere-377007



DEPARTMENT OF STUDIES IN CHEMISTRY, DAVANGERE UNIVERSITY, SHIVAGANGOTRI, DAVANGERE - 577 007.

KARNATAKA, INDIA.

CERTIFICATE

This is to certify that the Project Report entitled "IONIC LIQUID MEDIATED SYNTHESIS OF NANOCELLULOSE FROM RENEWABLE RESOURCES" is an authentic record for the project work carried out by the students of IV Semester, Department of Studies in Chemistry, in partial fulfilment of requirement for the award of Master degree in the field of Chemistry from Davangere University, under our guidance and supervision during the year 2020-2021.

Project Associates:

ANITHA.V.T

Reg. No. CH191003

KAVYA.S.C

Reg. No. CH191017

MEGHANA.U.M

Reg. No. CH191018

Guide:

1-B. P. 11/2021

Dr. B.P. Nandeshwarappa M.Sc.,Ph.D. Associate Professor and Chairman Department of Studies in Chemistry Davangere University, Shivagangotri, Davangere - 577 007

Co-Guide:

Dr. Onkarappa H. S M.Sc., Ph.D. Assistant Professor

Department of Chemistry, GM Institute of Technology,

Davangere - 577 006



ಆಧ್ಯಕ್ಷಯ ರಸಾಯನ ಶಾಸ್ತ್ರ ಅದ್ಯಯನ ವಿಭಾಗ ರಾವಣಗೆರೆ ವಿಶ್ವ ವಿದ್ಯಾನಿಲಯ. ಶಿವಗಂಗೋತ್ರಿ. ದಾವಣಗೆರೆ-577007





DEPARTMENT OF STUDIES IN CHEMISTRY, DAVANGERE UNIVERSITY, SHIVAGANGOTRI, DAVANGERE - 577 007.

KARNATAKA, INDIA.

CERTIFICATE

This is to certify that the Project Report entitled "SYNTHESIS AND CHARACTERISATION AND CHEMICAL MODIFICATION OF NANOCELLULOSE FROM RENEWABLE SOURCES: MAIZE HUSK" is an authentic record for the project work carried out by the students of IV Semester, Department of Studies in Chemistry, in partial fulfilment of requirement for the award of Master degree in the field of Chemistry from Davangere University, under our guidance and supervision during the year 2020-2021.

Project Associates:

NANDINI. N.R.

Reg. No. CH191021

PUJAR SUPRITHA BASAVARAJ

Reg. No. CH191027

SAHANA S SANGEETH

Reg. No. CH191033

Guide:

7.8.P. 12021

Dr. B.P. Nandeshwarappa M.Sc., Ph.D. Associate Professor and Chairman Department of Studies in Chemistry Davangere University, Shivagangotri,

Davangere - 577 007

Co-Guide:

Dr. Onkarappa H. S M.Sc., Ph.D.

Assistant Professor
Department of Chemistry,
GM Institute of Technology,

Davangere - 577 006

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DAVANAGERE UNIVERSITY, SHIVAGANGOTRI, DAVANAGERE

DEPARTMENT OF STUDIES IN CHEMISTRY



CERTIFICATE

This to Certify that the Project work entitled "Synthesis and characterization of silver nanoparticles" is a bonafide work carried out by BHARATH D N, VINODARAJ M, SANGEETHA P KULKARNI, CHANDANA J, DEEPA K, SARASWATHI H B. in partial fulfillment for the award of the degree of Master of Science in Chemistry of the Davanagere University, Shivagangotri, Davanagere during the year 2019-2021. It is certified that all corrections/suggestions indicated for Internal Assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for the Master of Science

Degree.

Name of the Student: Bharoth D.N , Vinodarcy No 3 20 1905 From

ರಸಾಯನ ಶಾಸ್ತ್ರ ಅದ್ಯಯನ ವಿಶಾಗೆ

University Seat Number: CH191006, CH191050, CH191034, CH191008, CH191010,

External viva:

Name of Examiners

Signature with



Shivagangothri, Davangere-577 007

UNIVERSITY

CERTIFICATE

I certify that the project entitled "MICROWAVE ASSISTED GREEN SYNTHESIS OF IMIDAZOLE DERIVATIVES AND IN VITRO STUDY OF THEIR ANTI-FUNGAL ACTIVITY" submitted by Mr. AMITH M. and Ms. MUSKAN BANU N., M.Sc., IV semester, Dept. of Chemistry (has satisfactorily completed the project work assigned under my guidance as prescribed by the Davangere University in partial fulfilment for the award of the degree of Master of Science in Chemistry and submitted the report during the year 2020-2021.

(Dr. S. Rajendra Prasad)

Assistant Professor Dept. of PG Studies in Chemistry, Davangere University, Davangere

Signature of Examiners

J. B. P. 11/2021

2. 8. Respect 8/11/2021

Place: Davangere Date: 8/11/2021.

Head of the Department

(Dr. B. P. Nandeshwarappa)

Associate Professor and Chairman

ರಸಾಯನ ಶಾಸ್ತ್ರವಾಗ ವಿಭಾಗ ದಾವಣಗೆರೆ ಪ್ಯ ಸ್ಥಾನಿಲಯ. ಶಿವಗಂಗೋಷಿ. ದಾವಣಗೆರೆ-577007.



<u>CERTIFICATE</u>

I certify that the project entitled "MICROWAVE ASSISTED GREEN SYNTHESIS OF PYRAZOLE DERIVATIVES AND IN VITRO STUDY OF THEIR ANTIBACTERIAL ACTIVITY" submitted by Mr. VIJAY KUMAR J. A. and Ms. TEJASWINI, M.Sc., IV semester, Dept. of Chemistry (has satisfactorily completed the project work assigned under my guidance as prescribed by the Davangere University in partial fulfilment for the award of the degree of Master of Science in Chemistry and submitted the report during the year 2020-2021.

(Dr. S. Rajendra Prasad)

Assistant Professor

Dept. of PG Studies in Chemistry,

Davangere University, Davangere

Head of the Department

(Dr. B. P. Nandeshwarappa)

Associate Professor and Chairman

ಅಧ್ಯಕ್ಷರು

ರಸಾಯನ ಶಾಸ್ತ್ರ ಅದ್ಯಯನ ವಿಭಾಗ ದಾಪಣಗೆರೆ ವಿಶ್ವ ವಿದ್ಯಾನಿಲಯ, ಶಿವಗಂಗೋತ್ರಿ, ದಾವಣಗೆರೆ-577007

Signature of Examiners

1. 7. 15. P. 08/11/2021.

Place: Davangue Date: 8/11/2021.



Department of studies in Chemistry

Davangere University Shivagangotri, Davangere-577007 Karnataka State, INDIA

Date:- 68 / \\ /2021

CERTIFICATE

This is to certify that the project work entitled "Synthesis characterization of BaCaCr₂O₄ nanoparticles" submitted by Ms. Hema.J (Reg. No: CH191015), Mr. Janardhana.K (Reg.No CH191016), Ms. Pooja B(Reg. No.CH191023), Ms. Rakshitha.R (Reg No CH191030) Ms. Vanitha H (Reg No CH191047) for the award of the Master of Science in Chemistry, based on the results of experiments in project carried out under my supervision.

Dr. Pushpa.B **Assistant Professor**

Department of studies in Chemistry

Davangere University

Shivagangotri, Davangere-577007

T. B.P. 1112021 Dr. B. P. Nandeshwarappa

Chairman

Department of studies in Chamistry

Davangere Oni क्यें और करिक्रिकेटिया.

Shangangons, Davangere-577007





DEPARTMENT OF STUDIES IN CHEMISTRY, DAVANGERE UNIVERSITY, SHIVAGANGOTHRI, DAVANGERE – 577 007, KARNATAKA, INDIA.

CERTIFICATE

This is to certify that Ms.Bhanupriya.K.H., Ms.Devika.E.U., Mr.Mohanbabu.S.R., Ms.Priyanka.N., Ms.Ranjitha.V., and Mr.Syedyounus.S.N., bearing Reg. No CH191005, CH191011, CH191019, CH191026, CH191031, and CH191041 of IV Semester,

Chemistry has satisfactory completed the project work entitled "MnCr₂O₄ Nanocomposite modified carbon paste electrode for selective detection of Adenosine: A cyclic voltammetry study "submitted in partial fulfilment for the award of Degree in Master of Science in Chemistry from Davangere University, Shivagangothri, Tholahunase, during the academic year 2020 - 2021.

Real + Hall

Dr.MAHANTHESHA.K.R M.Sc., Ph.D, Post Doc

Assistant Professor

Department of Studies in Chemistry,

Davangere University, Shivagangothri,

Davangere - 577 007

Chairman:

Dr.NANDESHWARAPPA.B.P M.Sc., Ph.D

J. B. F (102)

ಅಧ್ಯಕ್ಷರು ressor

Associate Professor ಅದ್ಯಯನ ವಿಭಾಗ

Department of Studies in Chemistry. ಶಿವರಂಗೋತ್ರಿ. ದಾವಣಗೆರೆ-577007

Davangere University, Shivagangothri,

Davangere - 577 007

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Department of studies in Chemistry

Davangere University Shivagangotri, Davangere-577007 Karnataka State, INDIA

Date:- 08 / 11 /2021

CERTIFICATE

This is to certify that the project work entitled " Ecofriendly And Hydrothermally Synthesis Of BiMnFe₂O₄ Nanoparticles For Multiple Application" submitted by Mr.Abhishek G R (Reg.No.:CH191001), Ms. Sowmya B N (Reg. No: CH191037) and Ms. Swapna G Y (Reg. No: CH191039)

for the award of the Master of Science in Chemistry, based on the results of experiments in project carried out by under my supervision.

Supervisor

Dr. Chidananda B

Assistant Professor

Department of studies in Chemistry

Davangere University

Shivagangotri, Davangere-577007

Dr. B. P. Nandeshwarappa

Department of studies in Chamistry

Davangere University

Shivagangotri, Davangere-577007







Department of studies in Chemistry

Davangere University Shivagangotri, Davangere-577007 Karnataka State, INDIA

Date:- 08 / 11 /2021

CERTIFICATE

This is to certify that the project work entitled "Synthesis And Characterization Of BiCoAl₂O₄ Nanocomposite For Photodegradation Application" submitted by Ms. Pushpa M (Reg. No: CH191028) and Ms. Usha S (Reg. No: CH191046) for the award of the Master of Science in Chemistry, based on the results of experiments in project carried out under my supervision.

Supervisor

Dr. Chidananda B

Assistant Professor

Department of studies in Chemistry

Davangere University

Shivagangotri, Davangere-577007

Dr. B. P. Nande Chairman

Department of studies in Che

Davangere University

Shivagangotri, Davangere-577007





Department of Studies in Chemistry Shivagangothri, Davanagere- 577 007

Certificate

This is to certify that the project work entitled "Synthesis, Characterization and Biological Studies of Nitrogen Containing heterocyclic Azodyes" submitted by Deepa A, Nayana B S, Pooja G P, Prashant Shivaputrappa Madiwalar, Shashank M E and Thejashwini M in partial fulfillment for the degree of Master of Science in Chemistry is the result of work carried out by her in the of Studies in Chemistry, Davangere University, Department Davanagere-577007, under the guidance of Dr.Keerthi Kumar C T during 2020-2021 and it has not formed the basis for the award of any diploma or degree of this University or elsewhere before.

Dr. B P. NANDEESHWARAPPA සු ප්රාල්ථ වනාගේ Chairman ්නාගාන් පාත්ය වනාග්

Department of studies in Chemistry Shivagangothri, Davanagere - 577 007.

Examiners:

Ale 08/11/21





CERTIFICATE

This is to certify that Ms. Gowri S Dixit, M. sSumaiyya Afshan G bearing Reg. No CH191014, CH191038 of IV Semester, Chemistry has satisfactory completed the project work entitled "Synthesis, characterization of composite crystal growth" submitted in partial fulfilment for the award of Degree in Master of Science in Chemistry from Davangere University, Shivagangothri, Tholahunase, during the academic year 2020 - 2021.

Guide:

Dr.SHOUKAT ALI R. A

Assistant Professor

Department of Studies in Chemistry,

Davangere University, Shivagangothri,

Davangere - 577 007

Chairman:

Dr.NANDESHINA ತಾತ್ರಗಳದ್ಯಯನ ವಿಭಾಗ Associate ದ್ವಾಪಣಗೆರೆ ಎಕ್ಟ ವಿದ್ಯಾನಿಲಯ.

Department of Studies in Chemistry

Davangere University, Shivagangothri,

Davangere - 577 007

Examiners: 1) C. ...

12/11/21

2) ..







CERTIFICATE

This is to certified that, the dissertation work entitled "Azo dyes" submitted by Pushpalatha Chimpigara M.Sc., Chemistry fourth semester, Davangere University, Davangere under the guidance of Dr.Shoukat Ali R A in partial fulfillment for the award of degree of master of science in chemistry, Davangere University, shivagangothri, Davangere-577002 during the academic year of 2020-2021.

> Department of Chemist Davangere Universi

Place: Davangere

Date: 08/11/21

) C. T. Collecte 08/11/21 Dr. Ste 08/11/21

DAVANGERE UNIVERSITY SHIVAGANGOTHRI, DAVANGERE - 577002

CERTIFICATE

This is to certified that Varshini.T, Thippesh.Y B, bearing Reg.no CH191048, CH191045 respectively of IV semester, chemistry has completed the project work entitled "Synthesis and characterization of azo dyes" submitted in partial fulfillment for the award of degree of master of science in chemistry from Davangere University, shivagangothri, Davangere-577002 during the academic year of 2020-2021.

Project associates:

VARSHINI T

CH191048

THIPPESH Y B

CH191045

Chairman কান্তু ভন্ত কান্ত কা

2) SAli 88/11/21

Place: Davangere

Date: 08/11/2021







SHIVAGANGOTHRI, DAVANGERE - 577002

CERTIFICATE

This is to certified that, the dissertation work entitled "Azo dye metal complexes" submitted by Tanuja.N.Rajaput M.Sc., Chemistry fourth semester, Davangere University, Davangere under the guidance of Dr. Shoukat Ali R A in partial fulfillment for the award of degree of master of science in chemistry, Davangere University, Shivagangothri, Davangere-577002 during the academic year of 2020-2021.

Place: Davangere Date: 08/11/2021

To janians Dr. CT.K -C.