

## CERTIFICATE

This is to certify that this project report on the topic "Spectrophotometric Determination of Cobalt" was carried out by Ms. Amrutha K, a student of M.Sc. IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Prof. B Narayana, Department of Chemistry, Mangalore University, Mangalagangothri.

Prof. B Narayana

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This is to certify that this project report on the topic "Spectrophotometric Determination of Titanium" was carried out by Mr. ANANDA, a student of M.Sc.IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Prof. B Narayana, Department of Chemistry, Mangalore University, Mangalagangothri

Prof. B Narayana

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This is to certify that this project report on the topic "Spectrophotometric Determination of Nitrite" was carried out by Ms. Annapoorna M R, a student of M.Sc.IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Prof. Dr. B Narayana, Department of Chemistry, Mangalore University, Mangalagangothri

  
15/11/2021

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This is to certify that this project report on the topic "Spectrophotometric Determination of Copper" was carried out by Ms. Ayshath Najeeba K, a student of M.Sc.IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Prof. Dr. B Narayana, Department of Chemistry, Mangalore University, Mangalagangothri



  
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This is to certify that this project report on the topic "Spectrophotometric Determination of Dissolved Oxygen" was carried out by Ms. Bindiya, a student of M.Sc. IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Prof. B. Narayana, Department of Chemistry, Mangalore University, Mangalagangothri.



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This is to certify that this project report on the topic "Spectrophotometric Determination of Cadmium" was carried out by Ms.Jisha K, a student of M.Sc.IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. Janet Maria Goveas, Guest Faculty, Department of Chemistry, Mangalore University, Mangalagangothri



Dr. Janet Maria Goveas

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## CERTIFICATE

This is to certify that the work presented in the project work entitled “**STARCH BASED HYDROGELS AS ADSORBENT MATERIALS FOR WATER PURIFICATION**” is an authentic record by **K CHETHAN** of M.Sc. Applied chemistry, as a partial fulfillment for the award of Masters of science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of **Prof.B.Vishalakshi**, Department of Chemistry, Mangalore University, Mangalagangothri.



**Prof.B.Vishalakshi**

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## CERTIFICATE

This is to certify that the work presented in the project work entitled "CARBOXYMETHYLCELLULOSE BASED HYDROGELS AS ADSORBENT MATERIALS FOR WATER PURIFICATION" is an authentic record by MALA NAGESH PATGAR of M.Sc. Applied chemistry, as a partial fulfillment for the award of Masters of science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of Prof.B.Vishalakshi, Department of Chemistry, Mangalore University.



Prof.B.Vishalakshi

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## CERTIFICATE

This is to certify that the work presented in the project work entitled "ALGINATE BASED HYDROGELS AS ADSORBENT MATERIALS FOR WATER PURIFICATION" is an authentic record by Nadana of M.Sc. Applied chemistry, as a partial fulfillment for the award of Masters of Science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of Prof. B. Vishalakshi, Department of Chemistry, Mangalore University.



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This is to certify that the work presented in the project work entitled "CARRAGEENAN BASED HYDROGELS AS ADSORBENT MATERIALS FOR WATER PURIFICATION" is an authentic record by Nikshitha M of M.Sc. Applied chemistry, as a partial fulfillment for the award of Masters of science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of Prof.B.Vishalakshi, Department of Chemistry, Mangalore University.

Prof.B.Vishalakshi

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## CERTIFICATE

This is to certify that this project report on the topic "Gum acacia based hydrogels as adsorbent material for water purification" was carried out by Nishmitha.N, a student of M.Sc.IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Prof. B.Vishalakshi , Department of Chemistry, Mangalore University, Mangalagangothri.



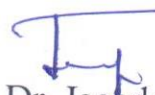
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This is to certify that this project report on the topic "KARAYA GUM BASED HYDROGELS AS ADSORBENT MATERIALS FOR WATER PURIFICATION" was carried out by **Ms. Nishwitha**, a student of M.Sc. IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of **PROF.B.VISHALAKSHI**, Department of Chemistry, Mangalore University, Mangalagangothri.



Prof.B.Vishalakshi  
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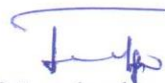
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## CERTIFICATE

This is to certify that the project entitled “**Green synthesis of zinc oxide nanoparticles (zno nps)**” the bonafide work carried out by, **NITHESH B K** II year (4<sup>th</sup> semester) M.Sc. Applied Chemistry, under the guidance of **prof. G.K.Nagaraja**, Department of chemistry, Mangalore university as a part of his academic year 2019-2020 in the partial fulfillment of the requirement for the award of the degree of Master of Science in Applied Chemistry.



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## CERTIFICATE

This is to certify that the project entitled "**A Review on Green Synthesis of Zinc Oxide Nanoparticles**" is an authentic work carried out by **Nithish** of M.Sc. Applied Chemistry, as a partial fulfillment for the requirements for the award of Master of Science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of **Prof. G.K Nagaraja**, Department of Chemistry, Mangalore University.



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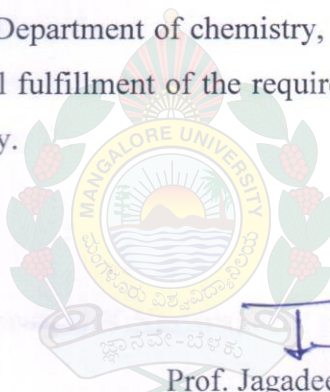
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This is to certify that the project entitled “**Green synthesis of zinc oxide nanoparticles (zno nps)**” the bonafide work carried out by, **PAVITHRA** II year (4<sup>th</sup> semester) M.Sc. Applied Chemistry, under the guidance of **prof. G.K.Nagaraja**, Department of chemistry, Mangalore university as a part of his academic year 2019-2020 in the partial fulfillment of the requirement for the award of the degree of Master of Science in Applied Chemistry.



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This is to certify that the project entitled “**Green synthesis of Copper oxide nanoparticles (CuO nps)**” the bonafide work carried out by, **POOJA P K** II year (4<sup>th</sup>semester) M.Sc. Applied Chemistry, under the guidance of **prof. G.K.Nagaraja**, Department of chemistry, Mangalore university as a part of his academic year 2019-2020 in the partial fulfillment of the requirement for the award of the degree of Master of Science in Applied Chemistry.



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This is to certify that the project entitled "**A Review on Green Synthesis of Zinc Oxide Nanoparticles**" is an authentic work carried out by **Prathiksha** of M.Sc. Applied Chemistry, as a partial fulfillment for the requirements for the award of Master of Science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of **Prof. G.K Nagaraja**, Department of Chemistry, Mangalore University.



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This is to certify that the project entitled "Green synthesis of Copper Oxide nanoparticles (NPs)" the bonafide work carried out by, **PREETHI H** □ year (4<sup>th</sup> semester) MSc. Applied Chemistry, under the guidance of **Prof.G.K.Nagaraja**, Department of Chemistry, Mangalore University as a part of this academic year 2019-2020 in the partial fulfillment of the requirement for the award of the degree of Master of Science in Applied Chemistry.

  
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## CERTIFICATE

This is to certify that this project report on the topic "Spectrophotometric Determination of Gold" was carried out by Ms.Priyanka, a student of M.Sc.IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. Janet Maria Goveas, Department of Chemistry, Mangalore University, Mangalagangothri




Dr. Janet Maria Goveas

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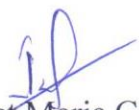
**CHAIRMAN**


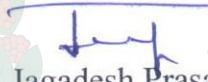
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This is to certify that this project report on the topic “Spectrophotometric determination of mercury” was carried out by Ms. Priyanka Fathima Lobo, a student of M.Sc IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of **Dr. Janet Maria Goveas**, Department of Chemistry, Mangalore University, Mangalagangothri.

  
Dr. Janet Maria Goveas  
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## CERTIFICATE

This is to certify that this project report on the topic "Spectrophotometric Determination of Zinc" was carried out by Ms. Sameeksha P Hegde, a student of M.Sc. IV Semester Applied Chemistry in partial fulfilment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. Janet Maria Goveas Department of Chemistry, Mangalore University, Mangalagangothri



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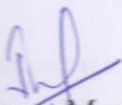
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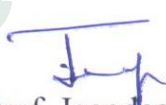
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This is to certify that this project report on the topic "Spectrophotometric Determination of Aluminium" was carried out by Ms. SANDHYA, a student of M.Sc.IV Semester Applied Chemistry in partial fulfillment for the award of degree of Master of Science in Applied Chemistry, Mangalore University.

The project work was carried out under the guidance of Dr. JANET MARIA GOVEAS, Department of Chemistry, Mangalore University, Mangalagangothri.



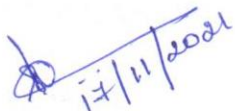
  
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## CERTIFICATE

This is to certify that the project entitled “**BANANA FLOWER BASED HYDROGEL FOR DYE ADSORBENT STUDY**” is an authentic record by **SHASHANK S** II year (4<sup>th</sup>semester) M.Sc applied Chemistry, as a partial fulfilment for the award of Masters of science in Applied Chemistry ,Mangalore University. This work has been carried out under the guidance of **Ms SHRUTHI S**, Department of Chemistry, Mangalore University.



Ms SHRUTHI S

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## CERTIFICATE

This is to certify that the project entitled “JUSTICIA WYNAADENSIS LEAVES BASED ON HYDROGEL FOR DYE ADSORPTION STUDY” bonafide work carried out by, **Mr.SHOURYA NC** II year (4<sup>th</sup>semester) M.Sc. Applied Chemistry, under the guidance of Miss **SHRUTHI S** as a part of his academic year 2020-2021, in the partial fulfilment of the requirement for the award of the degree of Master of Science in Chemistry.

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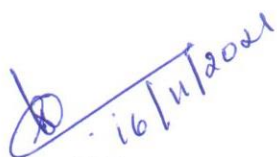
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This is to certify that the project entitled “**ARROWROOT POWDER BASED HYDROGEL FOR DYE ADSORBENT STUDY**” the bonafide work carried out by, **SHREYAS** II year (4<sup>th</sup> semester) M.Sc.Applied Chemistry, under the guidance of **Ms SHRUTHI S** as a part of his academic year 2019-2020 in the partial fulfillment of the requirement for the award of the degree of Master of Science in Chemistry.

 . 16/11/2021

Ms Shruthi S

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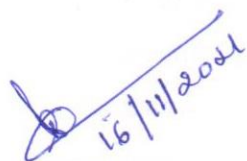
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This is to certify that the project entitled “COLACASIA ESCULENTA BASED HYDROGEL FOR ADSORPTION STUDY” bonafide work carried out by, **Miss.SHUSHMITHA N T** II year (4<sup>th</sup> semester) M.Sc.Applied Chemistry, under the guidance of **Miss.SHRUTHI** as a part of his academic year 2020-2021 in the partial fulfilment of the requirement for the award of the degree of Master of Science in Chemistry.

  
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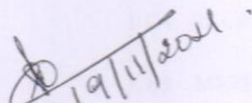


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## CERTIFICATE

This is to certify that the work presented in the project work entitled “**ALOEVERA GUM BASED HYDROGEL FOR DYE ADSORPTION STUDY**” is an authentic record by Smitha R Sooryavamshi of M.Sc. Applied chemistry, as a partial fulfillment for the award of Masters of science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of Ms Shruthi, Department of Chemistry, Mangalore University.

  
Ms SHRUTHI S

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## CERTIFICATE

This is to certify that the project entitled “**LITERATURE REVIEW ON TRIAZOLE AND ITS APPLICATIONS**” the bonafide work carried out by **Sudeeksha** II year (4<sup>th</sup> Semester) MSc Applied Chemistry, under the guidance of **Mr. Ganesh** as a part of his academic year 2019-2020 in the partial fulfilment of the requirement for the award of the degree of Master of Science in Chemistry.



Prof. Jagadeesh Prasad Dasappa

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This is to certify that the work presented in the project work entitled “**LITERATURE REVIEW ON THIAZOLE AND IT'S APPLICATION**” is an authentic record of literature review carried out by Suvetha Mariya Celin J, a student of M.Sc. (IV Sem.) Applied Chemistry, as a partial fulfilment for the award of Masters of Science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of **Mr.Ganesh G**, Department of Chemistry, Mangalore University.



Dr. Jagadeesh Prasad D.

Professor and Chairman

Department of Chemistry

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This is to certify that the work presented in the project work entitled “**LITERATURE REVIEW ON THIADIAZOLE AND IT’S APPLICATIONS**” is an authentic record of literature review carried out by **Veeksha**, a student of M.Sc (IV Sem.) Applied Chemistry, as a partial fulfillment for the award of the Master of Science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of **Mr.Ganesh G**, Department of Chemistry, Mangalore University.



Prof. Jagadeesh Prasad D.

Chairman

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This is to certify that the project entitled “**LITERATURE REVIEW ON IMIDAZOLE AND ITS APPLICATION**” the Bonafede work carried out by Veerabhadra S H II year (4<sup>TH</sup> semester) M.Sc. Applied Chemistry, under the guidance of **Mr GANESH G Department of Chemistry Mangalore university Mangalagangothri.** as a part of his academic year 2019-2020 in the partial fulfilment of the requirement for the award of the degree of Master of Science in Chemistry.



  
Prof. Jagadeesh Prasad Dasappa  
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## CERTIFICATE

This is to certify that the work presented in the project work entitled “**LITERATURE REVIEW ON PYRAZOLE AND IT'S APPLICATION**” is an authentic record of literature review carried out by Vinaya, a student of M.Sc. (IV Sem.) Applied Chemistry, as a partial fulfillment for the award of Masters of Science in Applied Chemistry, Mangalore University. This work has been carried out under the guidance of **Mr.Ganesh G**, Department of Chemistry, Mangalore University.

*Ganesh*

Mr. Ganesh G

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Dr. Jagadeesh Prasad D.

Professor and Chairman

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