CHEMISTRY ASSOCIATION REPORT

METALLICA 2017-18 PG DEPARTMENT OF CHEMISTRY BASELIUS COLLEGE, KOTTAYAM

Submitted by

Dr.Jalaja J Malayan

Teacher in Charge of Chemistry Association

CERTIFICATE

Certified that this is a genuine report of the Chemistry Association, Baselius College,
Kottayam during the academic year 2017-18.

Head of the Department

Dr. Suma Bino Thomas

Teacher in Charge Dr. Jalaja J.Malayan

Association Secretary

SidharthK.Mohan Aiswarya Mohan

REPORT OF THE ACTIVITIES OF CHEMISTRY ASSOCIATION

METALLICA 2017-18

As an effort to highlight the inner determination to go forward despite the challenges and create self-affirmation in our students, association activities are started. Each department has its own association. The association plays a key role in conducting seminars, workshops, intercollegiate competitions and other department level functions. The students are also guided to participate in various activities to develop their scientific and technical skills in various aspects. The science of chemistry is fundamental to the understanding of the world and cosmos. The real importance of chemistry is that it serves as the interface to practically all of other sciences as well as the many other areas of human endeavor. An executive committee was selected which comprised two members from each class. Sidharth Mohan and Aiswarya Mohan of D₃Chemistry were selected as the Association Secretaries. Dr. Jalaja J. Malayan was nominated as the teacher in charge of the Chemistry Association.

Office Bearers of the AssociationMETALLICA2017-18

President: Dr.SumaBino Thomas

Teacher in Charge: Dr.JalajaJ.Malayan

Secretary: Sidharth Mohan, Aiswarya Mohan (D₃Chemistry)

Committee Members: AbinK.Sabu, AswathyAnilkumar (M₂Chemistry)

Nandu T.S, RubinaShajahan P (M₂Chemistry)

JishnuSankar, AthiraS.Sharma (D₂Chemistry)

Jomy Jose Philip, Anna M.Abraham (D₁Chemistry)

The Chemistry Association METALLICA 2017-18 was formallyinaugurated 8-8-17by Dr.JoshyT.Joseph of NIIST Trivandrum, even though the activities were commenced in the month of June. In the Inaugural Address he did a talk on Career aspects and Research in Chemistry. The Inaugural Ceremony was followed by FRESHERS DAY CELEBRATION. It was a beautiful and entertaining Cultural Program comprising of Dances, Songs and Skits.

Departmental Activities:

Intercollegiate Achievements:

Paper Presentation and Poster Designing Competition

- 1. Elizabeth Jacob of M₂Chemistry and Sanjay Sunil of D₁ Chemistry participated in the Poster designing competitionChemspark2k18 ,All Kerala Science Fest conducted by Department of ChemistrySt.Xaviers College, Vaikom on 15-2-2018, Sanjay Sunil won the second prize and Elizabeth Jacob won the third prize.
- 2. VeenaG.Nair and Sreedevi Rajeev of M₂Chemistry participated andwon thesecond prize in the Paper Presentation Competition of the One Day Seminar and Science Competition CIENCIA -2018 held on 22-2-2018 hosted by Mangalam College of Engineering, Ettumanoor, Kottayam.
- 3. MeeraJaison and Merin George of M₂Chemistry participated in the Paper Presentation Competition of the One Day Seminar and Science Competition CIENCIA -2018 held on 22-2-2018 hosted by Mangalam College of Engineering, Ettumanoor, Kottayam.
- **4.** SilpaRachel Bennyand Dhinu Asha Kuriakose of D₃Chemistry participated in the Intercollegiate Poster Designing competition conducted as part of ATMOS2K18 organized by Research and PG Department of Chemistry, St. Thomas College, Palai on 19-1-18.
- **5.** Jomy Jose Philip and Anna Abraham of D₁ Chemistry participated in the PowerPoint Presentation Competition on Help HIV,Fight HIV conducted by Department of Zoology, Baselius College, Kottayam on 4-11-17.

Quiz Competition

- JishnuSankar of D₂Chemistry and ArppanaBinu of D₃Chemistry bagged the third prize in the Science Quiz Competition EXCELUS 2k17 held on 4-8-2017at Bishop Kurialassery College for Women, Amalagiri, Kottayam.
- 2 JishnuSankar of D₂Chemistry participated in the LA-SCALA2K17 an All Kerala Intercollegiate Chemistry Quiz competition organized by the Research and PG Department of Chemistry, St. George College, Aruvithura on 7-11-17.
- 3 SoumyaSukumar, SonaAlex,ArppanaBinu, AiswaryaMohan andMalavika Raj of D₃Chemistry participated in the Intercollegiate Quiz competition conducted as part of

- ATMOS2K18 organized by Research and PG Department of Chemistry, St. Thomas College, Palai on 19-1-18.
- 4 Sreedevi Rajeev of M₂Chemistry participated in the Intercollegiate Science Quiz Competition, Scientia 3 held on 20-2-2018 at St. Thomas College, Palai.

Debate competition

Malavika Raj and Midhun M ofD₃Chemistry participated in the Intercollegiate Debate Competition conducted as part of ATMOS2K18 organized by Research and PG DepartmentOf Chemistry, St. Thomas College, Palai on 19-1-18.

Group Dance Competition

AthiraVasavan and ReebaPunnan of D₃ Chemistry participated in the Group Dancecompetition conducted by the Department of Physics, BCM College, Kottayam on 2nd and 3rd Feb 2018 as part of intercollegiate Physics Fest

Treasure Hunt Competition

Abhijith P, Karthika S, Kavya Subramanian and Krishnendu Prakash D3Chemistry participated in the Intercollegiate Treasure HuntCompetition conducted as part of ATMOS2K18organized by Research and PG Department of Chemistry, St. Thomas College, Palai on19-1-18.

Power Quiz Competition

Nandu T.S and RubeenaShajahan P of M₁Chemistry participated in thePreliminary Power Quiz Competition conducted by KSEB conducted at Baselius College, Kottayam on 25-10-17, Nandu T.S bagged the first prize and RubinaShajahan won the second prize.

Interdepartmental Competitions

- 1. In association with June 5th the Environmental Day, JishnuSankar of D₂Chemistry as Quiz Master conducted an Environmental Quiz Competition on 6-6-17. A Team of Two Students from Commerce Department(Sreelakshmi Harikumar-D₂Commerce) won the First Prize.
- 2. In association with World Drug Day, A Power Point Presentation Competition was conducted on 30-6-17 .Dr.Leena R (Chemistry Department) and Prof. NibuB. Thomas

- (Electronics Department) chaired the presentation and Jithu Sunny and Meenu of D_3 Zoology won the first prize.
- 3. Alby Sebastian of D₃Chemistry won the first prize in the Photography Competition Conducted by the English Association on July 2017.
- 4. AbinK.Sabu, Merin George, Anna M.Abraham, Nimmi Sara Eapen,andVineethaP.George won the second prize in Group Song Competition in Syriac Language Smoro 2018 conducted by the Department of Syriac ,Baselius College, Kottayam on 5-3-18.

Sports Activities

- 1. Anjumol E S of D₂Chemistry participated in the Intercollegiate Football Tournament for the Year 2017-18 held at Marthoma College, Thiruvalla in October 2017 and bagged the second prize.
- 2. Anjumol E S of D₂Chemistry participated in the Football discipline and secured second position in the College Games2018 held at Kozhikode from 1stto 3rdMarch 2018, Organized by Kerala State Sports Council.
- 3. Anjumol E S of D₂Chemistry a member of MG University Football (W)Team, Represented South Zone Inter University Football Championship for the Year 2017-18 held at Annamalai University, Chennai.

PTA Merit Scholarship (17-2-18)

The following Students of Chemistry Department won the Merit Scholarship of PTA

Class	Name of Student
M_2	SreedeviRajeev
M_1	Sabitha S B
D_3	Ashly Susan Itty
D_2	ArchanaVijayakumar
D_1	Anna M.Abraham

Prathibhasangamam – (14-3-18)

Scholarship Winners

Name of the Award	Name of the Student	Class
JeevaKarunya Trust Scholarship	ArppanaBinu	D ₃ Chemistry
Dr A.M Unnikrishnan award	Sangeethamol Santosh	D ₃ Chemistry
Dr.AP Mani Memorial	KeerthiRavindran	D ₃ Chemistry
RebeccaGeurge Memorial	Sruthy SusanVarghese	D ₃ Chemistry
A J Chanda Pillai Memorial	Ashly Susan Itty	D ₃ Chemistry
	Sreedevi Rajeev	M ₂ Chemistry
C.Paulose Memorial	AmmuAravind	D ₃ Chemistry
Jain George Memorial	Anna M.Abraham	D ₁ Chemistry
Social Science League	Sanjay Sunil	D ₁ Chemistry
Prof J.K Onatt Endowment	NagaNandini	M ₂ Chemistry
K.C Chacko Kuttanchira	Veena G Nair	M ₂ Chemistry
Vengal Endowment	MeeraJaison	M ₂ Chemistry

Intradepartmental Activities

- OneDay Symposium on Promoting Science and Mathematics sponsored by IISER,
 Trivandrum and organized by PG Department of Chemistry was conducted at Baselius
 College, Kottayam on 19-9-2017. All UG students of our College and nearby Colleges
 were participated. Resource Persons Dr.Ravi Pant, Dr.SabariTirupati, Dr.
 SubrataKundu and DR.Sreelakshmi.
- 2. A Chemspell Competition was conducted on 12-1-18, Ashly Susan Itty of. D₃Chemistry And Pankaj O of D₃Chemistry won the IstandIIndPrizes respectively.
- 3. An Intercollegiate quiz, documentary and spot photography competition CHEMZONE 2K18, was conducted on 9-2-18. The students from various Colleges participated and an amount of Rs-7000/- were distributed for the winners of the above events.

Onam Celebration

We have participated in the pookalam and other competitions held in association with CollegeOnamCelebration on 31-8-17. MerinGeorge (M₁Chemistry)andNihalNujum (D₂Chemistry) participated in the SreemanSreemathiCopetition and Merin Georgebagged the first prize. TDepartment also conducted various games in connection with the

Celebration.

Arts Festival

The following students participated in the College Arts Festival conducted during 21-23 December 2017. and won the prizes,

Event	Name of the Student	Class	Prize
Kavyakeli-	Aiswarya S	D ₂ Chemistry	Second prize
Essay Writing (Hindi)	Sreelakshmi P.G	D ₃ Chemistry	First prize
Short Story Writing (Hindi)	Sreelakshmi P.G	D ₃ Chemistry	Third prize
Recitation (Hindi)	Gayathri K.S	D ₁ Chemistry	Third prize
Recitation (Sanskrit)	Gayathri K.S	D ₁ Chemistry	First prize
Classical Music	Gayathri K.S	D ₁ Chemistry	Second prize

Seminars attended

- 1.Ann Mary Alex and Sreedevi Rajeev of M₁Chemistry participated in the three day Colloquimon Spectroscopy Theory and Applications, organized by SrinivasaRamanujan Institute for Basic Sciences, Pampady, in connection with School of Chemical Sciences, MG University, Kottayam during 5-7 May 2017.
- 2. MerinUnny, Gopika Raj and Betsymol Cherian of M₁Chemistry attended the two day International Seminar on Advances in Photoresponsive Materials held at Maharajas College, Ernakulam during 14-15 November 2017.
- 3. All M.Sc Students attended the Linus Pauling Lecture Award held at MG University on 9-11-2017.

A Seminar on Stephen William Hawking

A Brief glimpse on Biography of Stephan William Hawking was given by Angel Susan Zachariah of D_2 Chemistry. This visionary Physicist was an inspiration to us and contributed so much to the fieldof ModernPhysics.

KSCSTE Student Project

KSCSTE Sanctioned M.Sc Student Projects (Completed) were submitted on November 2017.

- 1) M.Sc Student-AkhilaBinny, PI- Dr.JalajaJ.Malayan
- 2) M.Sc Student-Julie George PI-Prof Jinu Mathew

Regional Seminar

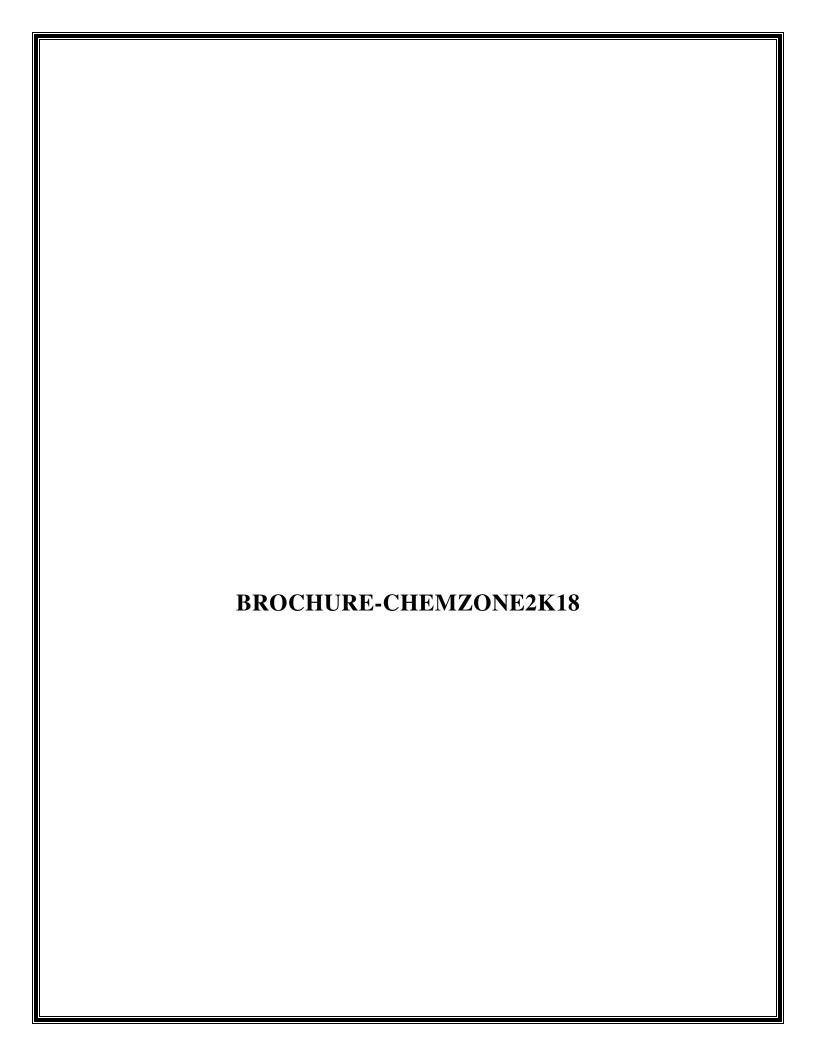
A Regional Seminar **SPECORD 2018** on FTIR, NMR and Coordination Chemistry was conducted on 20th and 21stMarch 2018. Dr.SSugunan and Dr. K KMuhammedYusuff from CUSAT were the Resource Persons. The PG Students and Teachers of our College and various other Colleges Participated..

Farewell

Farewell to D_3 and M_2 Students were conducted on 2-3-18. All Teachers and Students participated in the program which was comprised of Dances, Songs and Felicitations.

Conclusion

Chemistry Association METALLICA 2017-18 put all its efforts in organizing many competitions and tried to support the cultural talents as well as moral values in students. All UG and PG students actively participated in the Association activities. We express our sincere thanks to Respected Principal Dr. Jancey Thomas, Teachers and each and every Chemistry Community for their valuable cooperation and guidance which made these endeavors a grand success.



BASELIUS COLLEGE

KOTTAYAM

(NAAC ACCREDITED WITH A GRADE)

INTERCOLLEGIATE QUIZ

FIRST PRICE : 2K

SECOND PRICE: 1K

DOCUMENTARY REVIEW

FIRST PRICE: 2K

SECOND PRICE: 1K

SPOT PHOTOGRAPHY

FIRST PRICE: 1K

SECOND PRICE: 500

CHEMZONE 2K18

INTERCOLLEGIATE QUIZ

DOCUMENTARY REVIEW &

SPOT PHOTOGRAPHY COMPETITON

ORGANISED BY,

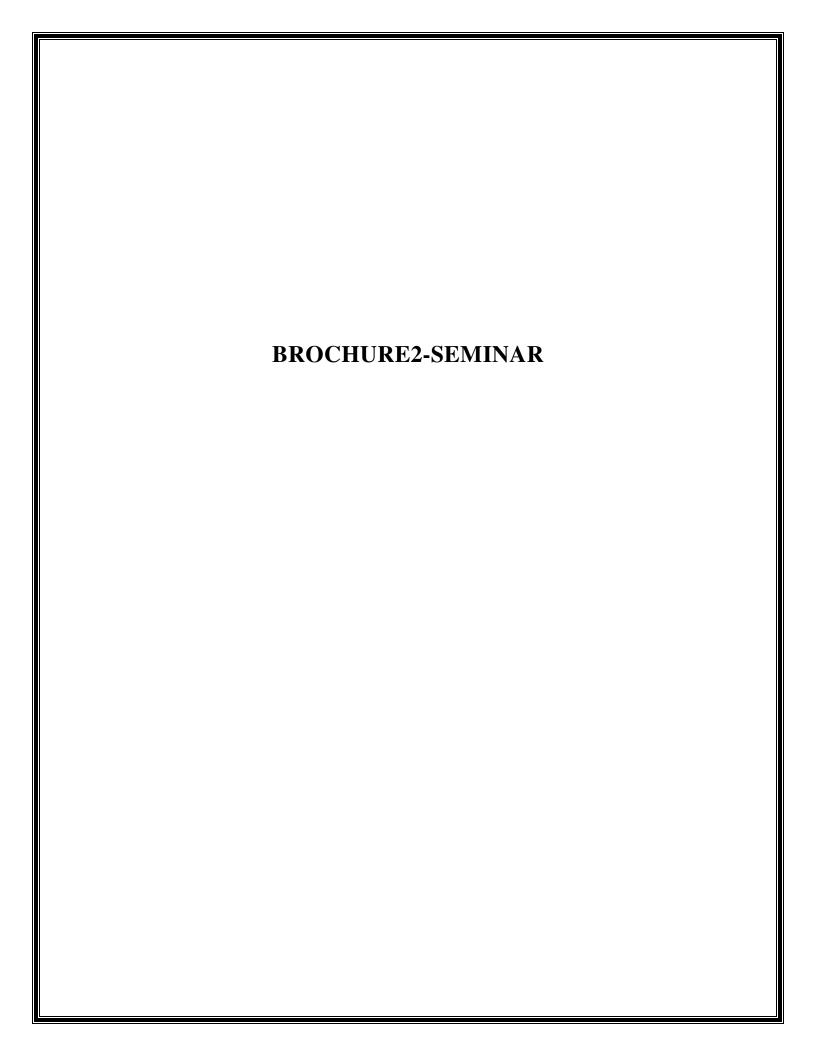
DEPARTMENT OF CHEMISTRY

DATE: FRIDAY 09 FEB 2018

TIME: FROM 9AM

VENUE: DEPARTMENT OF CHEMISTRY,

BASELIUS COLLEGE



DEPARTMENT OF CHEMISTRY

Baselius College is a NAAC accredited with CGPA of 3.11 (A Grade) established in the year 1964. The department of Chemistry commenced functioning under the eminent leadership of Sri. George in 1964 and in 1984, the department was elevated at the post graduate level with the introduction of M.Sc Pure Chemistry.

ORGANISING COMMITTEE

Dr. SUMA BINO THOMAS HOD

Dr. JALAJA J. MALAYAN

Dr. Priya Thambi

Ms. Shetal Elizabeth Thomas

Ms. Binimol C.K.

Ms. Reshmi John

Ms. Ambatty A.S.

Ms. Tharamol M.P.

Ms. Manjusha Murali

For More Details Kindly Contact

Dr. SUMA BINO THOMAS HOD

Mobile: 9446125353 sumapm@gmail.com

Dr. JALAJA J. MALAYAN

Convenor, SPECORD-2018 Mobile: 9961510352 jalajajmalayan@yahoo.co.in

SPECIONAL SEMINAR

REGIONAL SEMINAR

FTIR, NMR SPECTROSCOPY AND COORDINATION CHEMISTRY

20[™], 21ST March - 2018 Venue: Mrs. MAMMEN MAPPILAI HALL



Organised by



POST GRADUATE DEPARTMENT OF CHEMISTRY Baselius College, Kottayam-686001

Dear Sir/Madam.

Coordination Complexes have been known since the beginning of modern Chemistry and spectroscopic studies can be used to detect, identify and quantify information about the atoms and molecules. We the department of chemistry is organising a regional seminar on FTIR, NMR spectroscopy and coordination chemistry on 20th, 21st March 2018.

The seminar aims at updating the scientific and academic communities with the current advancement in different areas of chemistry and will provide a platform for interaction and exchange of ideas. Molecular spectroscopy finds application in determining the structure of molecules and study of intermolecular interactions. The great structural diversity of inorganic compounds make them important in industrial feeds stock, fine chemicals, catalyst and advanced materials. Spectroscopic aspects of coordination complexes can be studied using its symmetry properties.

We earnestly solicit your whole hearted participation for the success of the programme.

Dr. Suma Bino Thomas HOD Dept. of Chemistry Dr. Jalaja Malayan Convenor, Specord-2018 Dept. of Chemistry

PROGRAMME

DAY-I

9.00 A.M. : Registration (Rs: 100) 9.30 A.M. : Inaugural Session

Session-I

10.00 A.M. : Lecture-I

Dr. S. SUGUNAN, Former HOD, Professor (Adjunct) Department of Applied Chemistry

(CUSAT)

Topic : FTIR Fundamentals and applications

11.15 A.M : Tea Break 11.30 A.M. : **Dr. S. SUGUNAN**

(Continuing)

1.00 P.M. : Lunch Break

Session-II

2.00 P.M. : Lecture-2

Topic : NMR Spectroscopy

3.30 P.M : Tea Break

DAY-II

Session-III

10.00 A.M : Lecture-3

Dr. K.K. MOHAMMED YUSUFF, Former HOD,

Professor (Adjunct), Department of Applied

Chemistry (CUSAT)

Topic : Coordination Chemistry

11.15 A.M. : Tea Break

11.30 A.M : Dr. K.K. MOHAMMED YUSUFF

(Continuing)

1.00 P.M. : Lunch Break

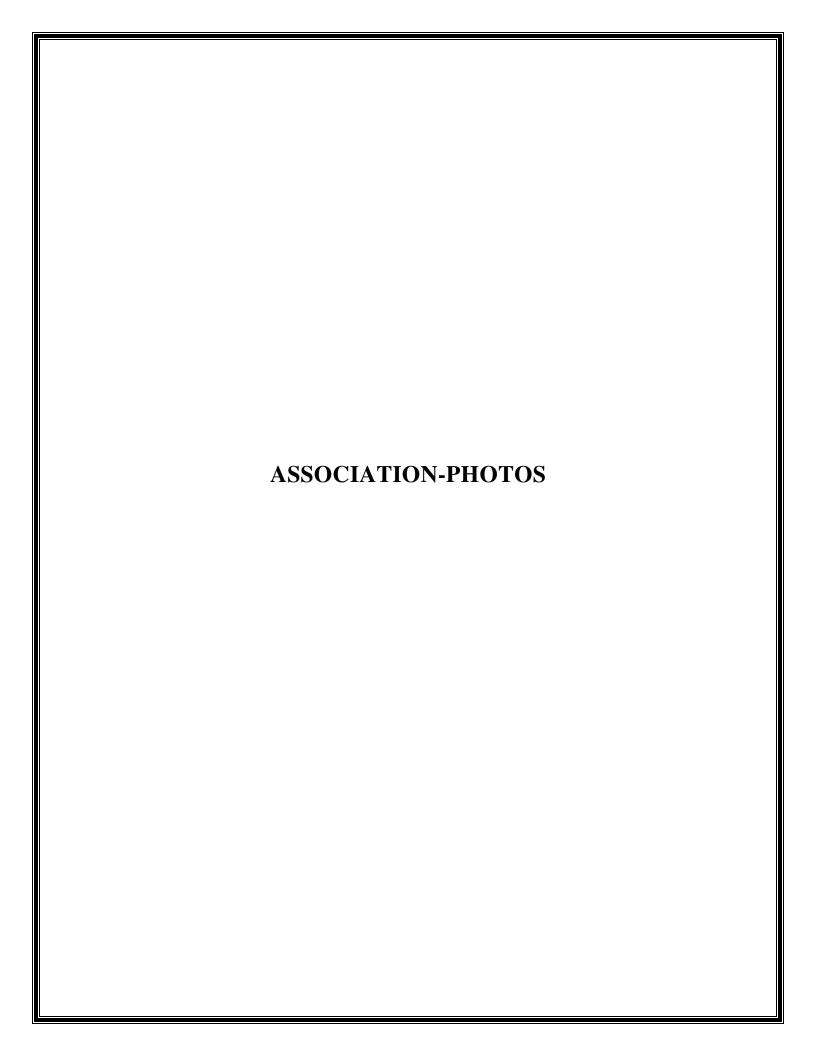
Session-IV

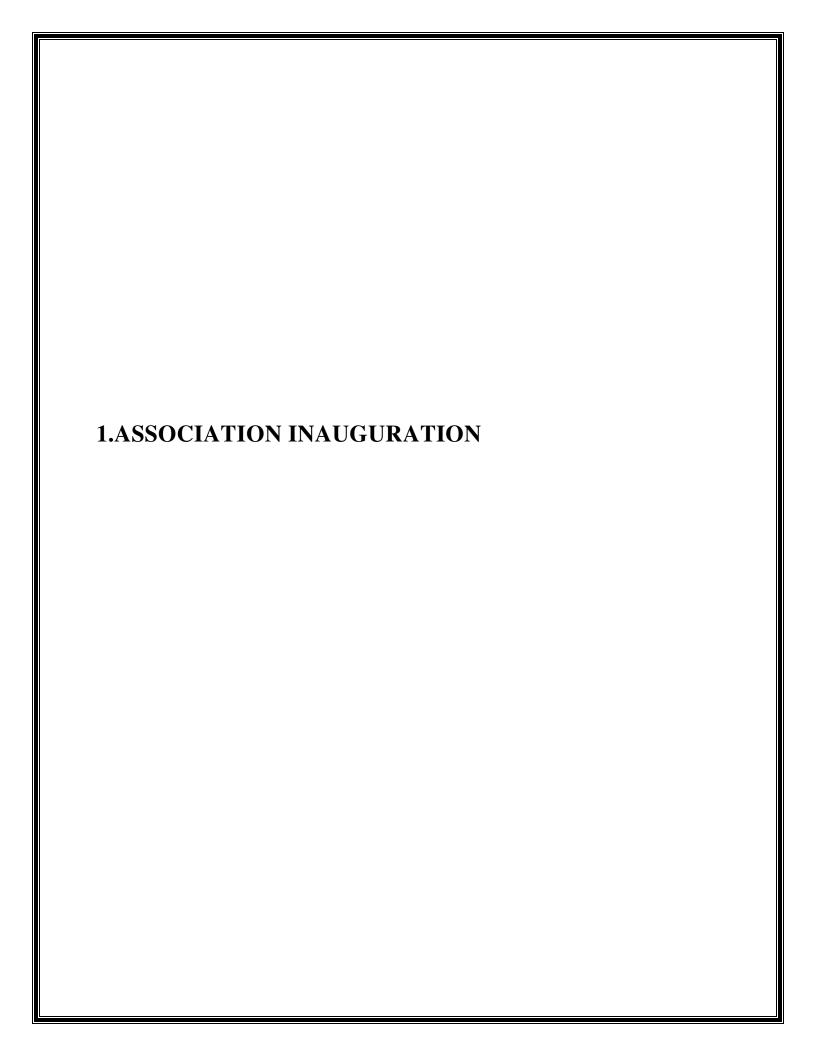
2.00 P.M. : Lecture - 4

Topic : ORGEL, TANABE, SUGANO AND

CORRELATION DIAGRAMS

3.30 P.M : Tea Break









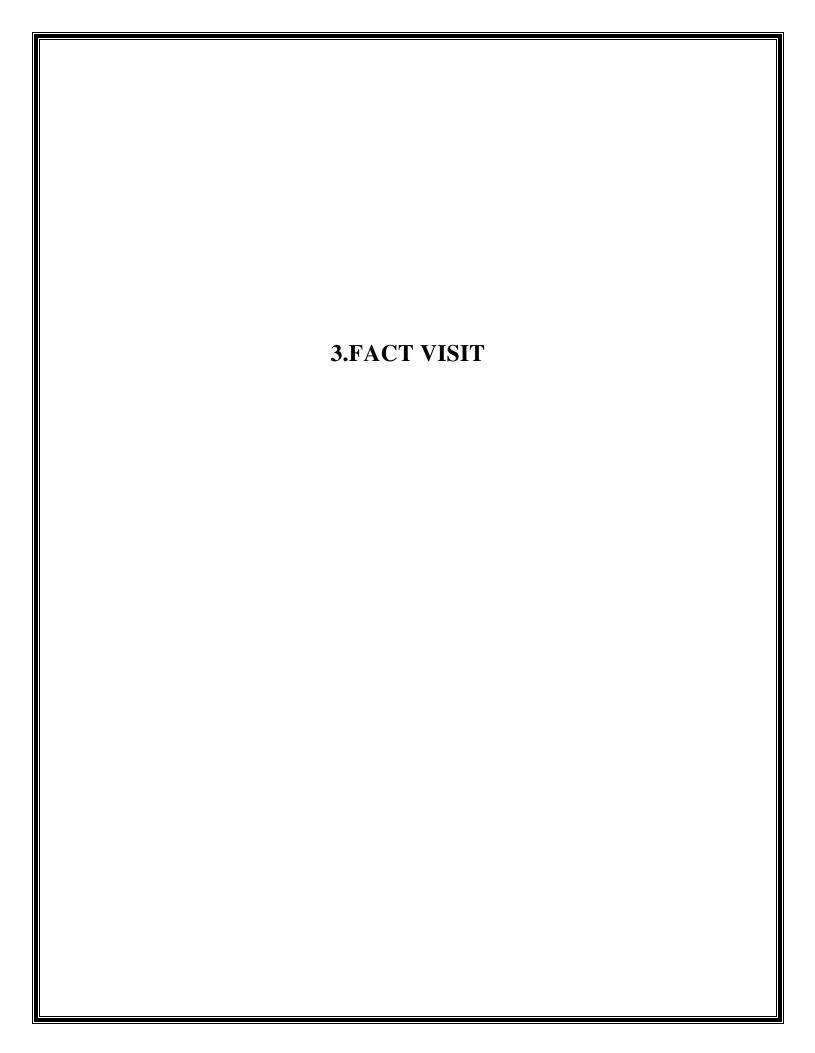




	2. ENVIR
	CONMENTA
	L DAY AN
	D WORL
	D DRUG DA
	ΛY









FACT IS STORYES AND CHEMICALS TRAVAMONDE LTS

TO WHOM SO EVER IT MAY CONCERN

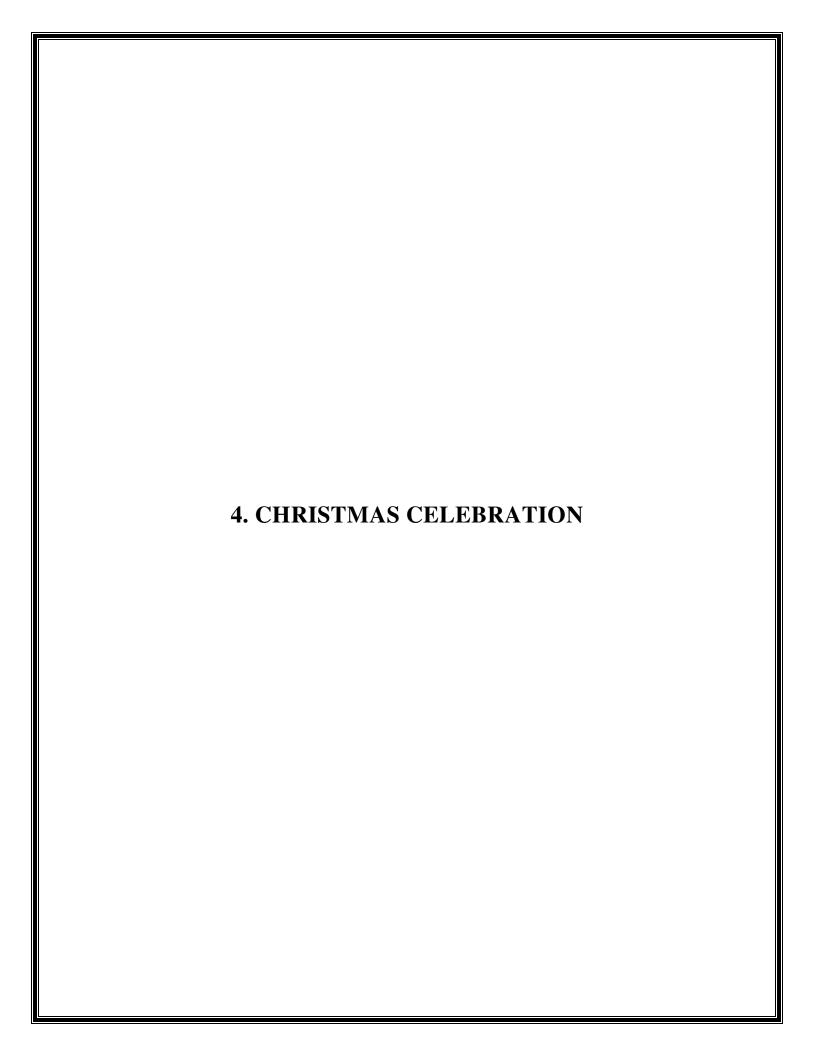
This is to certify that a team of 35 BSc Chemistry shuberts and 3 faculty members from Baselius College. Kottayam instead FACT as Udyogamandal on July 27, 2017. This certificate is issued as set their request to produce before the college, authorities.

N M Macranarar Dy Manager (Public Relations)

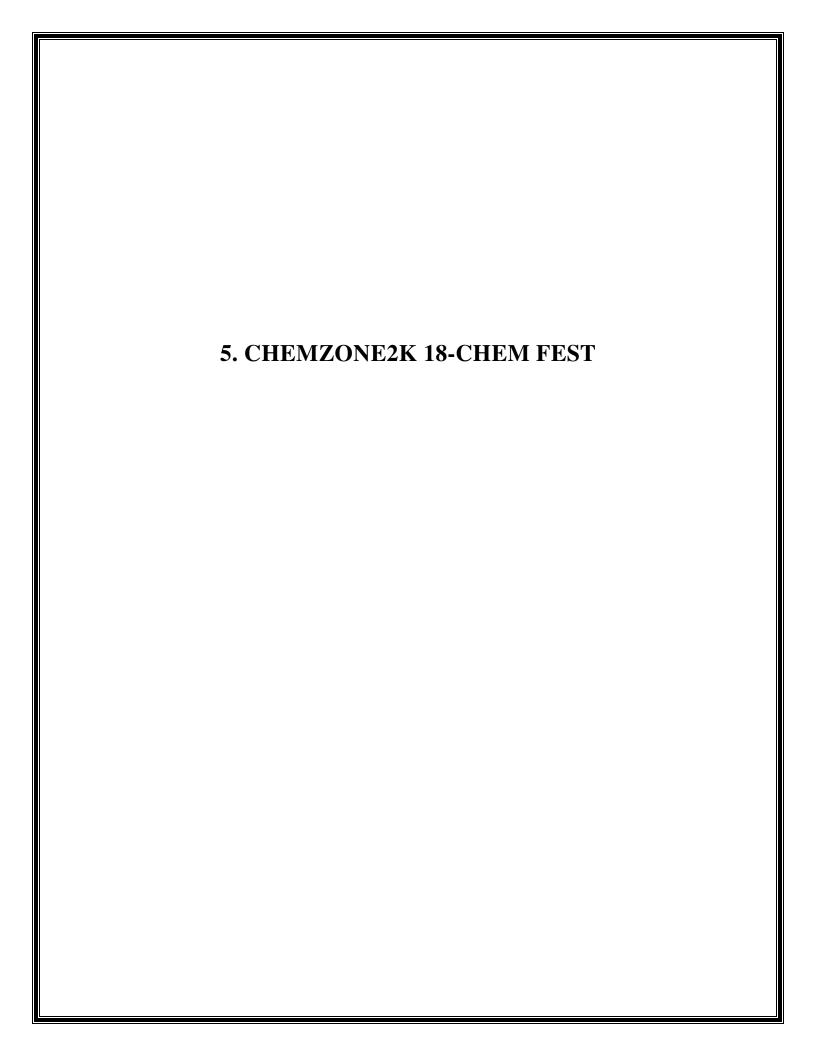
Udyogamandal 27 07 2017















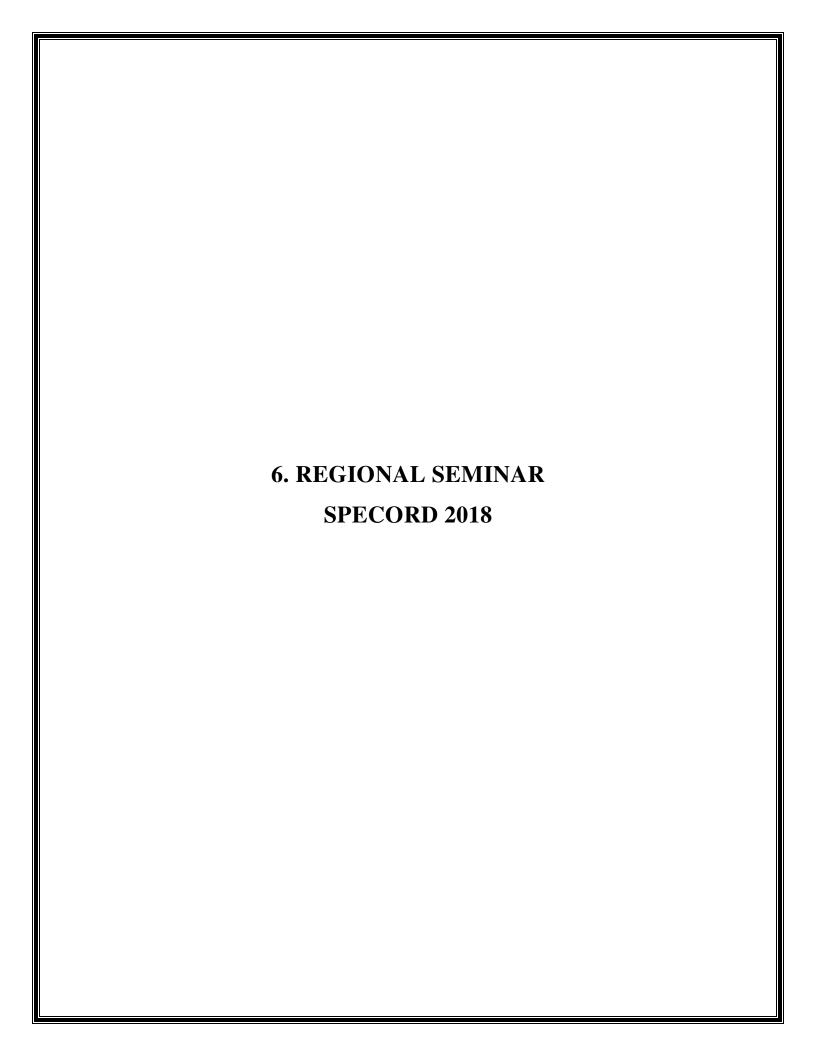


















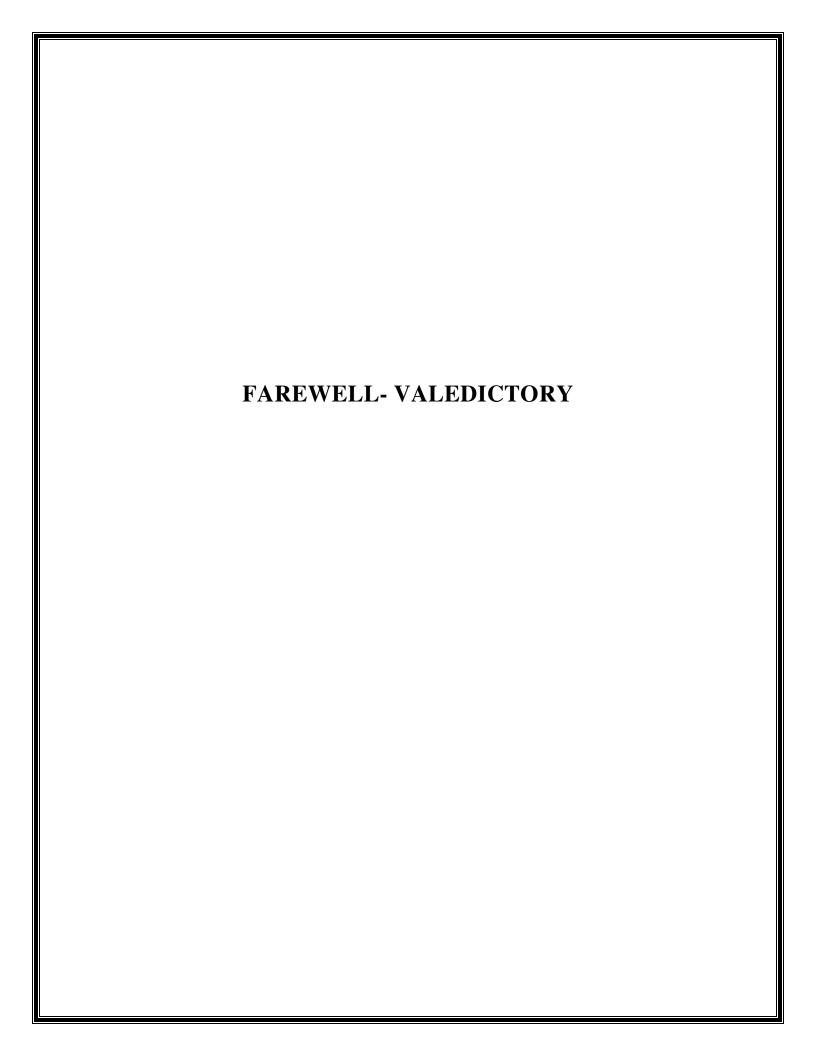












BASELIUS COLLEGE, KOTTAYAM Dept. of Chemistry

Farewell 2k18

1.Prayer

2. Welcome Speech

: Athira S Sharma

3.Presidential Address

: Dr.Jancey Thomas

(Principal in Charge)

4.Felicitation

: 1) Dr.Suma Bino Thomas (HOD)

2) Dr.Jalaja J Malayan

3) Dr. Priya Thampi.P

5.Dance

: D1 Girls

<Felicitation by Teachers>

6.Task

<Felicitation by Teachers>

7. Song

:D1 Boys

8.Task



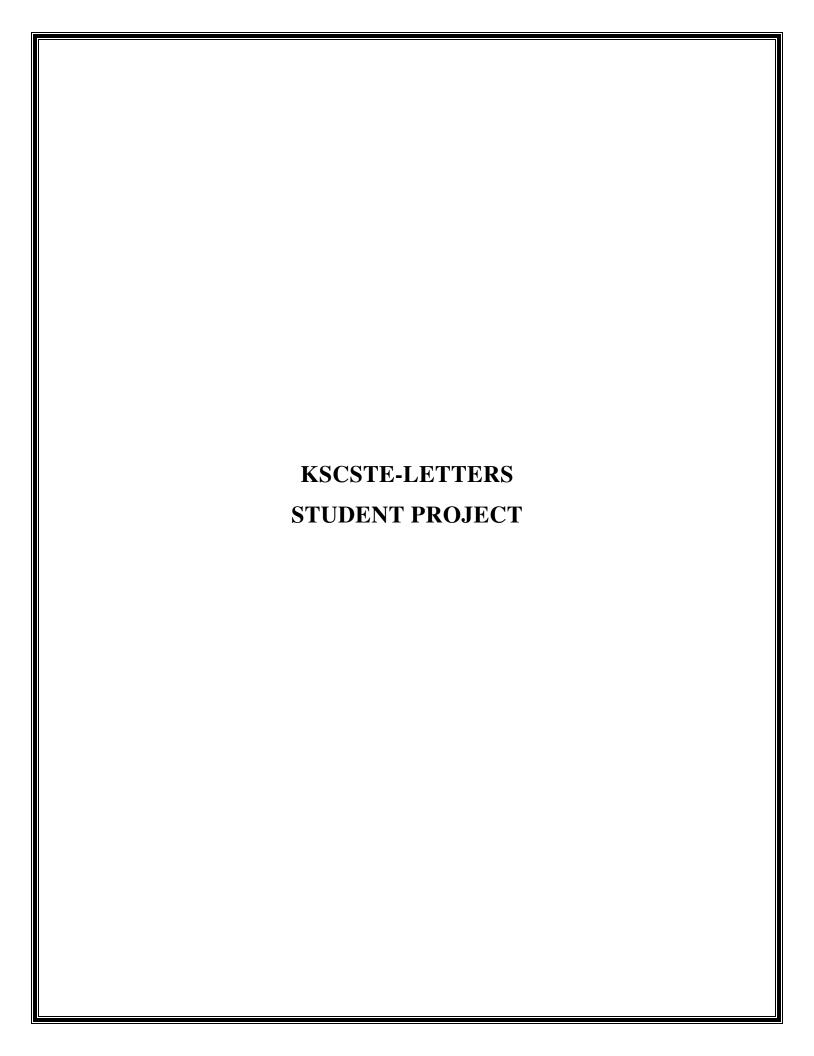












KERALA STATE COUNCIL FOR SCIENCE, TECHNOLOGY AND ENVIRONMENT An Autonomous body of the Government of Kerala

KSCSTE - Student Project entitled-"Surface characterisation and catalytic activity of ZnO-Al₂O₃ mixed oxides " submitted by Dr. Jalaja J Malayan, Associate Professor, Dept. of Chemistry, Baselius College, Kottayam-686001 as P1 and Ms.Akhila Binny as student investigator - financial assistance - Orders issued.

Council (P) Order No. 1093/2017/KSCSTE

Thiruvananthapuram, Dated:22.12.2017

Ref: (1) Decision of the 59th SP Committee meeting dated 5th September 2016 on item No. SP- 59/04 (2) File No: 04/SPS59/2016/KSCSTE

ORDER

Kerala State Council for Science Technology and Environment (KSCSTE) is operating a programme for supporting student projects in colleges and university departments. Dr. Jalaja J Malayan, Associate Professor, Dept. of Chemistry, Baselius College, Kottayam-686001 has submitted a student project titled as PI with Ms Akhila Binny as student investigator for financial assistance. The 59th SP Committee meeting dated 5th September 2016 has sanctioned Rs. 13,000/-(Rupees Thirteen thousand only) for the conduct of the above said project. The PI has submitted the final report and financial statements after completion of the project.

KSCSTE has verified the submitted documents and is pleased to accord sanction for the release of Rs.13,000/- (Rupees Thirteen thousand only) towards financial assistance for the student project titled "Surface characterisation and catalytic activity of ZnO- Al₂O₃ mixed oxides" submitted by Dr. Jalaja J Malayan, Associate Professor, Dept. of Chemistry, Baselius College, Kottayam-686001. The amount will be disbursed to The Principal, Baselius College, Kottayam-686001by means of Electronic Fund Transfer as per their bank details given below.

Beneficiary Account Name	Principal,Baselius College
Beneficiary Account Number(SB/CC)	35339144122
Beneficiary IFSC code	SBIN0001891
Name of bank	STATE BANK OF INDIA, KOTTAYAM
Beneficiary Address	Principal, Baselius College-686001

The expenditure in this regard will be met from the Council fund (III) Schemes and Programmes of KNSTE. Student project scheme

of KSCSTE - Student project scheme.

The above sanction has been issued under delegated powers of the Council, with the approval of The Director, KSCSTE vide sanction no. 1085/DIR/2017-18/KSCSTE dated.22.12.2017

Dr.Anilkumar C Principal Scientist & Head Science Education Division

To

The Principal, Baselius College, Kottayam 686001

Copy to:

Dr. Jalaja J Malayan, Associate Professor, Department of Chemistry, Baselius College, Kottayam Ms. Akhila Binny, Student, Department of Chemistry, Baselius College, Kottayam The Cash Section KSCSTE, Auditors file, Stock File/Office Copy.

KERALA STATE COUNCIL FOR SCIENCE, TECHNOLOGY AND ENVIRONMENT An Autonomous body of the Government of Kerala

KSCSTE-StudentProjectentitled-"Synthesis, Characterisation and antimicrobial study of mixed ligand dithiocarbamato complex of Cu(II)" submitted by Prof Jinu Mathew, Dept. of Chemistry, Baselius College, Kottayam-686001 as PI and Ms. Julie Geroge as student investigator - financial assistance - Orders issued.

Council (P) Order No.1082 /2017/KSCSTE

Thiruvananthapuram, Dated:22.12.2017

Ref: (1) Decision of the 59th SP Committee meeting dated 5th September 2016 on item No. SP-59/05 (2) File No: 05/SPS59/2016/KSCSTE

ORDER

Kerala State Council for Science Technology and Environment (KSCSTE) is operating a Rerala State Council for Science Technology and Environment (RSCSTE) is operating a programme for supporting student projects in colleges and university departments. Prof. Jinu Mathew, Assistant Professor, Dept. of Chemistry, Baselius College, Kottayam-686001 has submitted a student project as PI with Ms Julie George as student investigator for financial assistance. The 59th SP Committee meeting dated 5th September 2016 has sanctioned Rs. 13,000/-(Rupees Thirteen thousand only) for the conduct of the above said project. The PI has submitted the final report and financial statements after completion of the project. financial statements after completion of the project.

KSCSTE has verified the submitted documents and is pleased to accord sanction for the release of Rs.8,525/- (Rupees Eight thousand five hundred and twenty five only) towards financial assistance for the student project titled "Synthesis, Characterisation and antimicrobial study of mixed ligand dithiocarbamato complex of Cu(II)" submitted by Prof. Jinu Mathew, Assistant Professor, Dept. of Chemistry, Baselius College, Kottayam-686001. The amount will be disbursed to The Principal, Baselius College, Kottayam-686001 by means of Electronic Fund Transfer as per their bank details given below.

Beneficiary Account Name	Principal,Baselius College
Beneficiary Account Number(SB/CC)	35339144122
Beneficiary IFSC code	SBIN0001891
Name of bank	STATE BANK OF INDIA, KOTTAYAM
Beneficiary Address	Principal, Baselius College, Kottayam-686001

The expenditure in this regard will be met from the Council fund (III) Schemes and Programmes

of KSCSTE - Student project scheme.

The above sanction has been issued under delegated powers of the Council, with the approval of The Director vide sanction no. 1095/DIR/2017-18/KSCSTE dated. 22.12.2017

Dr.Anilkumar C Principal Scientist & Head Science Education Division

To

The Principal, Baselius College, Kottayam 686001

Prof. Jinu Mathew, Assistant Professor, Department of Chemistry, Baselius College, Kottayam-01 Ms.Julie Geroge, Student, Department of Chemistry, Baselius College, Kottayam-01 The Cash Section KSCSTE, Auditors file, Stock File/Office Copy.