



ESTD 1964

# **BASELIUS COLLEGE**

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**NAAC 4<sup>th</sup> CYCLE**





Dr. Biju Thomas  
Principal

# Baselius College

(NAAC Reaccredited @ A Grade (with CGPA 3.11) & Fully Accredited by IAO)

Kottayam, Kerala - 686 001

A Post Graduate Institution of the Orthodox Church with faculties of  
Arts, Science and Commerce, affiliated to Mahatma Gandhi University

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21/12/2021

## CERTIFICATE

The list of students who have undertaken Project Work/ Field Work/ Internship for various UG and PG programmes during the academic year 2019-20 are attached herewith.



  
PRINCIPAL

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
BBA	UGBA11	AKHIL M.K.
BBA	UGBA11	AKSHAY VIJAY
BBA	UGBA11	ALBY JACOB MATHEW
BBA	UGBA11	ALEPH SHAJI
BBA	UGBA11	ANAND PRAMOD
BBA	UGBA11	ANJALY SABU
BBA	UGBA11	CHRISTEENA MATHEW
BBA	UGBA11	FIDHA SHAREEF
BBA	UGBA11	JASMINE FARHANA M.
BBA	UGBA11	JAYARAJ T.A.
BBA	UGBA11	JISHA ANNIE THOMAS
BBA	UGBA11	KALYANI L.
BBA	UGBA11	KARTHIK ASHOK
BBA	UGBA11	NEERAJ K.
BBA	UGBA11	PARAYADYIL TOM GEORGE
BBA	UGBA11	PRIYA U.
BBA	UGBA11	RINTO REJI CHANDY
BBA	UGBA11	SERIN SEBASTIAN
BBA	UGBA11	SHREYA JAYAKUMAR
BBA	UGBA11	SONIA MATHEW
BBA	UGBA11	SUCHITHRA P.S.
BBA	UGBA11	SUHAIL N.N.
BBA	UGBA11	THOMAS P. CHERIAN
BBA	UGBA11	ADARSH UNNIKRISHNAN
BBA	UGBA11	ADITYA HARI
BBA	UGBA11	AISON C. JOHN
BBA	UGBA11	ALBIN JOHN MATHEW
BBA	UGBA11	ALEENA JOHNS
BBA	UGBA11	ANANDHU R. NATH
BBA	UGBA11	ANJANA P. K.
BBA	UGBA11	ANUJITH G.
BBA	UGBA11	APARNA DILEEP A.
BBA	UGBA11	AYANAMOL A. P.
BBA	UGBA11	DHANYA ELIZABETH CHACKO
BBA	UGBA11	FIDEL BABU
BBA	UGBA11	JASMINE P. J.
BBA	UGBA11	JOJI THOMAS
BBA	UGBA11	JUSTIN MATHEW ABRAHAM
BBA	UGBA11	MOHAMMED SHEEZ A. L.

BBA	UGBA11	RAHUL RAJU
BBA	UGBA11	ROBIN THOMAS
BBA	UGBA11	SREELAKSHMI T. L.
BBA	UGBA11	SURYABHAMA C. S.
BBA	UGBA11	VARSHA JJI
BBA	UGBA11	VISHAK VIJAYAN

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.Com Model I	UGCO10	ABHIRAMI K. RAJ
B.Com Model I	UGCO10	ABIN ABRAHAM JACOBSON
B.Com Model I	UGCO10	ABRAHAM ITTY
B.Com Model I	UGCO10	AILEEN SUSAN JOSEPH
B.Com Model I	UGCO10	AKHIL T.S.
B.Com Model I	UGCO10	AMALU DAS
B.Com Model I	UGCO10	ANAGHA S. NAMBOOTHIRY
B.Com Model I	UGCO10	ANEEZ FATHIMA
B.Com Model I	UGCO10	ANJALI PRASAD
B.Com Model I	UGCO10	ANJANA KRISHNA M.
B.Com Model I	UGCO10	ANUMOL SADAN
B.Com Model I	UGCO10	ARUNDHATHI K. MOHAN
B.Com Model I	UGCO10	ARUN KUMAR V.P.
B.Com Model I	UGCO10	ARYA SALI
B.Com Model I	UGCO10	ASHBIN K. NINAN
B.Com Model I	UGCO10	ASHLIN JAMES
B.Com Model I	UGCO10	ATHIRA KUNJUMON
B.Com Model I	UGCO10	ATHIRA VIJAYAN
B.Com Model I	UGCO10	ATHUL K.
B.Com Model I	UGCO10	CHITHRA J. NAIR
B.Com Model I	UGCO10	DEVIKA SHAJI
B.Com Model I	UGCO10	DEVIKA SOMAN
B.Com Model I	UGCO10	DIYA MARY ALEX
B.Com Model I	UGCO10	EMY ANN THOMAS
B.Com Model I	UGCO10	FEBIN K. KURIAN
B.Com Model I	UGCO10	GOVIND R. NAIR
B.Com Model I	UGCO10	GOWRI MOHAN
B.Com Model I	UGCO10	HIMA HARIDAS
B.Com Model I	UGCO10	KAVYA SABU
B.Com Model I	UGCO10	KRISHNA S. BABU
B.Com Model I	UGCO10	KRISHNA DEVI
B.Com Model I	UGCO10	KRISHNENDU V.R.
B.Com Model I	UGCO10	LIYA ELIZABETH PHILIP
B.Com Model I	UGCO10	MAREYA K. SAJI
B.Com Model I	UGCO10	MELVIN GEORGE K.
B.Com Model I	UGCO10	MELVIN MATHEWS
B.Com Model I	UGCO10	NEENU ABRAHAM
B.Com Model I	UGCO10	NEENU MANOJ
B.Com Model I	UGCO10	NEHA GRACE SHAJI
B.Com Model I	UGCO10	NIGIL DAVID KURIAN
B.Com Model I	UGCO10	NIKITTA ESTHER ZACHARIAH

B.Com Model I	UGCO10	NINA MERIAM JOHN
B.Com Model I	UGCO10	PANCHAMI P.K.
B.Com Model I	UGCO10	RAHUL SUNI
B.Com Model I	UGCO10	REVATHY S. NAIR
B.Com Model I	UGCO10	RIBY ANN VARGHESE
B.Com Model I	UGCO10	SAGARA B.S.
B.Com Model I	UGCO10	SETHULEKSHMI S.
B.Com Model I	UGCO10	SHIMA ANNA SHAJI
B.Com Model I	UGCO10	SHYAM JOSE
B.Com Model I	UGCO10	SIMI CHACKO
B.Com Model I	UGCO10	SREEJISHA LIJISH
B.Com Model I	UGCO10	SREEKUTTY M.
B.Com Model I	UGCO10	SREELAKSHMI K.S.
B.Com Model I	UGCO10	SURYA S. KUMAR
B.Com Model I	UGCO10	SWETHA K. PRASAD
B.Com Model I	UGCO10	THARA BENJAMIN

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.Com Model III	UGCO12	ABHIMANYU R NAIR
B.Com Model III	UGCO12	ABHISHEK VARGHESE KOSHY
B.Com Model III	UGCO12	AKSHAY.R
B.Com Model III	UGCO12	ALEN IPE SHAJAN
B.Com Model III	UGCO12	AMAL JOSE
B.Com Model III	UGCO12	AMAL M BABY
B.Com Model III	UGCO12	AMY ACHU MATHEW
B.Com Model III	UGCO12	ANAKHA.A
B.Com Model III	UGCO12	ANCHU JACOB
B.Com Model III	UGCO12	ANJALI DIVAKAR
B.Com Model III	UGCO12	ANN TESSY VARGHESE
B.Com Model III	UGCO12	ANNA JOSE
B.Com Model III	UGCO12	ARAVIND MOHAN
B.Com Model III	UGCO12	ARJUN KRISHNA.A
B.Com Model III	UGCO12	ARJUN SANKAR.J.A.
B.Com Model III	UGCO12	ARUNIMA.P.A.
B.Com Model III	UGCO12	ASISH J MATHEW
B.Com Model III	UGCO12	ASWIN PHILIP MARKOSE
B.Com Model III	UGCO12	ATHIRA BIJU
B.Com Model III	UGCO12	ATHUL M MADHU
B.Com Model III	UGCO12	BIBIN
B.Com Model III	UGCO12	CHRIS ABRAHAM MUNDACKAL

B.Com Model III	UGCO12	CHRISTEENA MARY ROY
B.Com Model III	UGCO12	CHRISTY MARY THOMAS
B.Com Model III	UGCO12	HARSHA REJI
B.Com Model III	UGCO12	JIBIN VARGHESE JOHN
B.Com Model III	UGCO12	JIKSON SEBASTIAN
B.Com Model III	UGCO12	JISSON DAVID
B.Com Model III	UGCO12	KAVYAMOL ANIL
B.Com Model III	UGCO12	MANU.K.M.
B.Com Model III	UGCO12	MERIN ELIZABETH REGI
B.Com Model III	UGCO12	MILIYA SAJAN
B.Com Model III	UGCO12	MUKUND SREENIVAS.K.S.
B.Com Model III	UGCO12	NIVINE MATHEW
B.Com Model III	UGCO12	PRATHEEK ZACHARIAH GEORGE
B.Com Model III	UGCO12	RAYAN VINOY JOHN
B.Com Model III	UGCO12	RIGIN PHILIP ABRAHAM
B.Com Model III	UGCO12	ROHIT PUNNEN
B.Com Model III	UGCO12	ROHIT RAVI
B.Com Model III	UGCO12	SANDEEP SABU
B.Com Model III	UGCO12	SARATH SUNDAR
B.Com Model III	UGCO12	SAURAV KIRAN
B.Com Model III	UGCO12	SHERIN M SHAJI
B.Com Model III	UGCO12	SNEHA SUSAN VARGHESE



B.Com Model III	UGCO12	SREELAKSHMI P NAIR
B.Com Model III	UGCO12	SUBRAMANYAN.V
B.Com Model III	UGCO12	SUJITH SATISH PAWAR

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.A. Malayalam	UGML02	ALEENA SIBICHAN
B.A. Malayalam	UGML02	ANJANA ANIL
B.A. Malayalam	UGML02	ANUJA P.P.
B.A. Malayalam	UGML02	APARNA CHANDRAN
B.A. Malayalam	UGML02	ARCHANA K. BAIJU
B.A. Malayalam	UGML02	ARJUN KARTHIKEYAN
B.A. Malayalam	UGML02	ASHIK JAYAN
B.A. Malayalam	UGML02	ATHIRA JOSE
B.A. Malayalam	UGML02	BENEETA BENNY
B.A. Malayalam	UGML02	GAYATHRI V. MOHAN
B.A. Malayalam	UGML02	KANNAN K.R.
B.A. Malayalam	UGML02	MAHITH V.S.
B.A. Malayalam	UGML02	MOBIN MONCY
B.A. Malayalam	UGML02	NEENU S. NAICK
B.A. Malayalam	UGML02	NISARIN FAIROOSE A.S.
B.A. Malayalam	UGML02	RAHANA R. NAIR
B.A. Malayalam	UGML02	REMYA REJI
B.A. Malayalam	UGML02	ROHITH JOSEPH
B.A. Malayalam	UGML02	ROSE MARY
B.A. Malayalam	UGML02	SREELAKSHMI R.
B.A. Malayalam	UGML02	TINCE BABU
B.A. Malayalam	UGML02	VAISHNAVI J.
B.A. Malayalam	UGML02	VARSHAMOL V.
B.A. Malayalam	UGML02	VIVEK M.S.

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.A. Political Science	UGPS04	ABILA BENNY
B.A. Political Science	UGPS04	AKHILA SUSAN MOHAN
B.A. Political Science	UGPS04	AKHILAMOL HARIDAS
B.A. Political Science	UGPS04	ALEENA THOMAS
B.A. Political Science	UGPS04	AMRUTHA APPUKUTTN
B.A. Political Science	UGPS04	ANJANAM JOY LOUIS
B.A. Political Science	UGPS04	ANJUMOL N.J.
B.A. Political Science	UGPS04	ARDRA S.
B.A. Political Science	UGPS04	ASHWIN SHAJI
B.A. Political Science	UGPS04	ATHIRA V.S.
B.A. Political Science	UGPS04	DEVIKA SASI
B.A. Political Science	UGPS04	FASEELA BEEGUM
B.A. Political Science	UGPS04	GOKUL SURESH
B.A. Political Science	UGPS04	JERRIN D. ROY
B.A. Political Science	UGPS04	JITTYMOL PHILIP
B.A. Political Science	UGPS04	JOSNA JOY
B.A. Political Science	UGPS04	JUBY JOHN
B.A. Political Science	UGPS04	JYOTHIMOL P.R.
B.A. Political Science	UGPS04	KIRAN M.T.
B.A. Political Science	UGPS04	MIRASH CHRIAN KURIAN
B.A. Political Science	UGPS04	NANDAN GIRISH
B.A. Political Science	UGPS04	NIKHIL BABU T.
B.A. Political Science	UGPS04	PARVATHY P.S.
B.A. Political Science	UGPS04	PHILIP P.
B.A. Political Science	UGPS04	RAHUL UNNI
B.A. Political Science	UGPS04	REMYA RADHAKRISHNAN
B.A. Political Science	UGPS04	REMYA REGHUNATHAN
B.A. Political Science	UGPS04	RESHMA N.R.
B.A. Political Science	UGPS04	ROBIN JOSE VARGHESE
B.A. Political Science	UGPS04	SAJITHA SAJEER
B.A. Political Science	UGPS04	SOUMYA P.B.
B.A. Political Science	UGPS04	SRESHTA HANNA JOSEPH
B.A. Political Science	UGPS04	SWATHY LAKSHMANAN

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.A. English	UGEN01	ABAN C. THOMAS P.
B.A. English	UGEN01	AILYN SUSAN REJI
B.A. English	UGEN01	ALEN GRACE JOSE
B.A. English	UGEN01	ALFIYA MUJEEB
B.A. English	UGEN01	ALINA RITA ALEX
B.A. English	UGEN01	AMOM RAJU SINGH
B.A. English	UGEN01	ANANDHU VENUGOPAL
B.A. English	UGEN01	ANJU THANKAM SHAJI
B.A. English	UGEN01	ANUMOL K.
B.A. English	UGEN01	ARCHANA E. S.
B.A. English	UGEN01	ATHIRA THARA B. K.
B.A. English	UGEN01	BIYA SUSAN KURIAN
B.A. English	UGEN01	DEVU BINOD KUMAR
B.A. English	UGEN01	GAUTHAMI S.
B.A. English	UGEN01	GEETHU K. S.
B.A. English	UGEN01	GIFTY C. GRACIOUS
B.A. English	UGEN01	GLADY ABRAHAM
B.A. English	UGEN01	HARIKRISHNAN S.
B.A. English	UGEN01	JIBY SUSAN KURUVILLA
B.A. English	UGEN01	JOBIN K. S.
B.A. English	UGEN01	JOEL JOSEPH
B.A. English	UGEN01	LAKSHMI PRIYA
B.A. English	UGEN01	MEENU MANOJ
B.A. English	UGEN01	MEREENA MARIYAM REJI
B.A. English	UGEN01	NANDU SIBY
B.A. English	UGEN01	NIDHI SUDHAKARAN
B.A. English	UGEN01	PARVATHY BABURAJ
B.A. English	UGEN01	PRAPHUL VIJAYAN
B.A. English	UGEN01	PRASTEEDA R.
B.A. English	UGEN01	RESHMA HARIKUMAR
B.A. English	UGEN01	RITTU MERIN RAJU

B.A. English	UGEN01	ROSHAN DANIEL REGI
B.A. English	UGEN01	RUMAIS K.
B.A. English	UGEN01	SAINO SUSAN BABY
B.A. English	UGEN01	SANDRA ANN VARGHESE
B.A. English	UGEN01	SERAH JACOB
B.A. English	UGEN01	SHAKEEL HASSAN
B.A. English	UGEN01	SHILPA C.S.
B.A. English	UGEN01	SHIVA PRASANTH K.
B.A. English	UGEN01	SIDHARTH K.
B.A. English	UGEN01	SINI BABURAJ
B.A. English	UGEN01	SIVA MOHAN
B.A. English	UGEN01	SNEHA ANN SHAJI
B.A. English	UGEN01	VISHNU SHIBU
B.A. English	UGEN01	VRINDA A. PILLAI

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.A. Economics	UGEC03	AJAY MATHEW
B.A. Economics	UGEC03	AKSHAY S.
B.A. Economics	UGEC03	ALAN TOM PRINCE
B.A. Economics	UGEC03	ALBIN BABY
B.A. Economics	UGEC03	AMALA V. ANIL
B.A. Economics	UGEC03	ANJU KRISHNAN P.R.
B.A. Economics	UGEC03	ASHWIN P.
B.A. Economics	UGEC03	ATHUL K. VENUKUTTAN
B.A. Economics	UGEC03	AVANI KOTTAYIL
B.A. Economics	UGEC03	DILIN SAJI
B.A. Economics	UGEC03	GODWIN T SHAJI
B.A. Economics	UGEC03	JERIN JOHN PULIYAYIL
B.A. Economics	UGEC03	JOJI JOHN
B.A. Economics	UGEC03	KAVYA SHAJAN
B.A. Economics	UGEC03	KRISHNAPRIYA MOHANDAS
B.A. Economics	UGEC03	KRISTIN SUSAN KOSHY
B.A. Economics	UGEC03	KRUPA MARIYA KOSHY
B.A. Economics	UGEC03	LEENA P.Y.
B.A. Economics	UGEC03	LIYA ZACHARIA
B.A. Economics	UGEC03	MANU A.N.
B.A. Economics	UGEC03	MOHINI MOHANAN
B.A. Economics	UGEC03	MUHAMMED SIRAJUDHEEN K B
B.A. Economics	UGEC03	NIDHIN K. MADHU
B.A. Economics	UGEC03	NOWRINE ELSA MADHU
B.A. Economics	UGEC03	P.K. ANUJA
B.A. Economics	UGEC03	PRIYANKA MARIYA SIBI
B.A. Economics	UGEC03	REEMA SHIBU
B.A. Economics	UGEC03	RESHMI RAJU
B.A. Economics	UGEC03	ROSHMI THOMAS
B.A. Economics	UGEC03	SANDRA MARIAM MATHEW
B.A. Economics	UGEC03	SHALU GEORGE

B.A. Economics	UGEC03	SREEJA RAJ
B.A. Economics	UGEC03	SRUTHYMOL CHANDRAN
B.A. Economics	UGEC03	TINTU MARY MATHEW
B.A. Economics	UGEC03	VINEETHA P.R.

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.Sc. Botany	UGBO08	AASHIN MANI RAJAN
B.Sc. Botany	UGBO08	AGRAJ MOHAN S.
B.Sc. Botany	UGBO08	ALEENA ANN ABRAHAM
B.Sc. Botany	UGBO08	ALEENA IYPE
B.Sc. Botany	UGBO08	AMRUTHA P.
B.Sc. Botany	UGBO08	AMRUTHA SAHADEVAN
B.Sc. Botany	UGBO08	ANILA B. KOTHAKERRY
B.Sc. Botany	UGBO08	ANJALY BABURAJ K.B.
B.Sc. Botany	UGBO08	ANJANA SAJI
B.Sc. Botany	UGBO08	ANJU SUSAN JACOB
B.Sc. Botany	UGBO08	ARCHANA SHAJI
B.Sc. Botany	UGBO08	ARDRA SEN
B.Sc. Botany	UGBO08	ATHIRA S. NAIR
B.Sc. Botany	UGBO08	DEVIKA M.R.
B.Sc. Botany	UGBO08	DURGA P. PAI
B.Sc. Botany	UGBO08	GEETHU GIRIDHARAN
B.Sc. Botany	UGBO08	KARTHIK M.S.
B.Sc. Botany	UGBO08	KAVYA M.S.
B.Sc. Botany	UGBO08	KEERTHY RAJU
B.Sc. Botany	UGBO08	MANESH SUDHAN
B.Sc. Botany	UGBO08	RENOSH PALLIKUNNEN
B.Sc. Botany	UGBO08	RESHMA RAMANKUTTY
B.Sc. Botany	UGBO08	RINU REJI
B.Sc. Botany	UGBO08	SANDRA PHILIP
B.Sc. Botany	UGBO08	SANVIN JACOB
B.Sc. Botany	UGBO08	SAVITHRI DEVI K.K.
B.Sc. Botany	UGBO08	SHANU SHAJAN
B.Sc. Botany	UGBO08	SHEMA JACOB
B.Sc. Botany	UGBO08	SHERSIA FAIZY
B.Sc. Botany	UGBO08	SONA C. KURIAN
B.Sc. Botany	UGBO08	SONI MATHEW



B.Sc. Botany	UGBO08	SREEHARI P.H.
B.Sc. Botany	UGBO08	SREERAGH M. AMBADY
B.Sc. Botany	UGBO08	SUKANYA B.S.
B.Sc. Botany	UGBO08	VANI VIJAYAN
B.Sc. Botany	UGBO08	VIJINA VIJAYAN
B.Sc. Botany	UGBO08	YADHU KRISHNAN

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.Sc. Chemistry	UGCH07	ABHINAV KANNAN
B.Sc. Chemistry	UGCH07	AISWARYADEVI M A
B.Sc. Chemistry	UGCH07	ALEENA ASLAM
B.Sc. Chemistry	UGCH07	ALKA C SHIBU
B.Sc. Chemistry	UGCH07	AMAL PRADEEP
B.Sc. Chemistry	UGCH07	ANANYA ANIL
B.Sc. Chemistry	UGCH07	ANJALI S
B.Sc. Chemistry	UGCH07	ANNA M ABRAHAM
B.Sc. Chemistry	UGCH07	ARYA S SHEKAR
B.Sc. Chemistry	UGCH07	ARYAMOL CHANDRABABU
B.Sc. Chemistry	UGCH07	ASHINA JOHNSON
B.Sc. Chemistry	UGCH07	ASHNA BIJOSH
B.Sc. Chemistry	UGCH07	ATHIRA KOCHUMON
B.Sc. Chemistry	UGCH07	BINCY KRISHNAN
B.Sc. Chemistry	UGCH07	BLESSY M THOMAS
B.Sc. Chemistry	UGCH07	BRINDA M NAIR
B.Sc. Chemistry	UGCH07	DEEPTHI MARIAM G
B.Sc. Chemistry	UGCH07	DEVIKA SANTHOSH
B.Sc. Chemistry	UGCH07	DEVIKA SURESH
B.Sc. Chemistry	UGCH07	DHIJA MARY KURIAKOSE
B.Sc. Chemistry	UGCH07	DONA SUSAN SHIBU

B.Sc. Chemistry	UGCH07	JISSMON S
B.Sc. Chemistry	UGCH07	JOMY JOSE PHILIP
B.Sc. Chemistry	UGCH07	K S GAYATHRI
B.Sc. Chemistry	UGCH07	KAILASNATH S
B.Sc. Chemistry	UGCH07	KARTHIKA K S
B.Sc. Chemistry	UGCH07	MIDHUN MANOJ
B.Sc. Chemistry	UGCH07	NAMITHA SANKAR
B.Sc. Chemistry	UGCH07	NAZIA NAZEER
B.Sc. Chemistry	UGCH07	NEHA ANNA IPE
B.Sc. Chemistry	UGCH07	NIMMI SARA EAPEN
B.Sc. Chemistry	UGCH07	RAHUL RAJAPPAN
B.Sc. Chemistry	UGCH07	SANJAI SUNIL
B.Sc. Chemistry	UGCH07	SAXENA SARATH K M
B.Sc. Chemistry	UGCH07	SHILPA V RAJU
B.Sc. Chemistry	UGCH07	SONU VINOD
B.Sc. Chemistry	UGCH07	SREEKUMAR K
B.Sc. Chemistry	UGCH07	VARSHA MARY SAJI
B.Sc. Chemistry	UGCH07	VISHNU A R

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.Sc. Mathematics	UGMM05	ABHIDHA SUNNY
B.Sc. Mathematics	UGMM05	ABHIJITH PRASAD
B.Sc. Mathematics	UGMM05	AJAY KRISHNAN
B.Sc. Mathematics	UGMM05	AKHILA M. ALEX
B.Sc. Mathematics	UGMM05	AKSHAI S. CHANDRAN
B.Sc. Mathematics	UGMM05	ANAGHA S.
B.Sc. Mathematics	UGMM05	ANAGHA R.
B.Sc. Mathematics	UGMM05	ANS SABU
B.Sc. Mathematics	UGMM05	ANSU MARIAM JOHN
B.Sc. Mathematics	UGMM05	ANUP SURESH
B.Sc. Mathematics	UGMM05	ASWATHY V.A.
B.Sc. Mathematics	UGMM05	ASWIN S. LAL
B.Sc. Mathematics	UGMM05	AUSTIN JOSE KURIAKOSE
B.Sc. Mathematics	UGMM05	DONA RACHEL ABEY
B.Sc. Mathematics	UGMM05	ELVIN HANNA VARGHESE
B.Sc. Mathematics	UGMM05	GAUTHAM S.
B.Sc. Mathematics	UGMM05	GODSON M.M.
B.Sc. Mathematics	UGMM05	HARISANKAR K.
B.Sc. Mathematics	UGMM05	JOEL JOHN
B.Sc. Mathematics	UGMM05	KESIA SARA KOSHY
B.Sc. Mathematics	UGMM05	KRISHNAPRASAD S.

B.Sc. Mathematics	UGMM05	LAN P. KUTTAN
B.Sc. Mathematics	UGMM05	MANNA CHIN ABRAHAM
B.Sc. Mathematics	UGMM05	MEGHA VIJU
B.Sc. Mathematics	UGMM05	MERIN THOMAS
B.Sc. Mathematics	UGMM05	MILAN THOMAS
B.Sc. Mathematics	UGMM05	NANDITHA RAJEEV
B.Sc. Mathematics	UGMM05	NEENU ANNA PUNNOOSE
B.Sc. Mathematics	UGMM05	NIDHEESH P.P.
B.Sc. Mathematics	UGMM05	NIDIYA ELSA ELIAS
B.Sc. Mathematics	UGMM05	NIKHIL MOHANAN
B.Sc. Mathematics	UGMM05	PARVATHY KUTTY T.G.
B.Sc. Mathematics	UGMM05	REEMA SUSAN MANU
B.Sc. Mathematics	UGMM05	RONY THOMAS
B.Sc. Mathematics	UGMM05	ROSE TRESA GEORGE
B.Sc. Mathematics	UGMM05	SARATH BABU S.
B.Sc. Mathematics	UGMM05	SHEMA MARIAM ANDREWS
B.Sc. Mathematics	UGMM05	SHYNA P. SHAJAN
B.Sc. Mathematics	UGMM05	SNEHA ANN BOBAN
B.Sc. Mathematics	UGMM05	SNEHALEKSHMI S.
B.Sc. Mathematics	UGMM05	SREELEKSHMI S.
B.Sc. Mathematics	UGMM05	TONY THOMAS

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.Sc. Physics	UGPH06	AISWARYA AMBADY
B.Sc. Physics	UGPH06	AKSHAYAMOL A K
B.Sc. Physics	UGPH06	ALBIN SABU
B.Sc. Physics	UGPH06	ANANTHU T S
B.Sc. Physics	UGPH06	ANN JACOB
B.Sc. Physics	UGPH06	ARJUN MANOJ
B.Sc. Physics	UGPH06	ASHIN RAY BIJU
B.Sc. Physics	UGPH06	ASHNA K
B.Sc. Physics	UGPH06	BLESSY ELSA ZACHARIAH
B.Sc. Physics	UGPH06	DEEPA MARY RAJU
B.Sc. Physics	UGPH06	GIGIMOL MURALLEDHARAN
B.Sc. Physics	UGPH06	GOKUL P
B.Sc. Physics	UGPH06	JOHNSON V T
B.Sc. Physics	UGPH06	LAKSHMI K B
B.Sc. Physics	UGPH06	MEGHA ANN PHILIP
B.Sc. Physics	UGPH06	NAVYA ANNA RAJAN
B.Sc. Physics	UGPH06	RESHMA RAJEEV
B.Sc. Physics	UGPH06	RIYA ELIZABETH JOHN
B.Sc. Physics	UGPH06	SIDHARTH S NAIR
B.Sc. Physics	UGPH06	SNEHA ROY
B.Sc. Physics	UGPH06	SREELAKSHMI R
B.Sc. Physics	UGPH06	VARGHESE REJI
B.Sc. Physics	UGPH06	VISHNU SHAJI

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
B.Sc. Zoology	UGZY09	ABI SEBASTIAN
B.Sc. Zoology	UGZY09	AJITH THOMAS V.
B.Sc. Zoology	UGZY09	AJNA SUSAN ALEX
B.Sc. Zoology	UGZY09	AKHIL DEVAN
B.Sc. Zoology	UGZY09	AKSHAY P. A.
B.Sc. Zoology	UGZY09	AMRUTHA C. K.
B.Sc. Zoology	UGZY09	AMRUTHA LAKSHMI
B.Sc. Zoology	UGZY09	ANANTHAKRISHNA K. S.
B.Sc. Zoology	UGZY09	ANASWARA RAJENDRAN
B.Sc. Zoology	UGZY09	ANJANA ELIZABETH KOSHY
B.Sc. Zoology	UGZY09	ANSU P. REJI
B.Sc. Zoology	UGZY09	ARCHA S. NAIR
B.Sc. Zoology	UGZY09	ASHWIN KRISHNAN
B.Sc. Zoology	UGZY09	BIBINA MOL C. B.
B.Sc. Zoology	UGZY09	DEVIKA M NAIR
B.Sc. Zoology	UGZY09	FEBIN V. ROY
B.Sc. Zoology	UGZY09	GAYATHRI J.
B.Sc. Zoology	UGZY09	HARIPRASAD P. S.
B.Sc. Zoology	UGZY09	HEPHZIBAH S.
B.Sc. Zoology	UGZY09	JEESON K. VARGHESE
B.Sc. Zoology	UGZY09	JINESH JOSEPH VARGHESE
B.Sc. Zoology	UGZY09	JOSMI ELSA JOSEPH
B.Sc. Zoology	UGZY09	KAVYA P. S.
B.Sc. Zoology	UGZY09	MARIAM REFKA JOHN
B.Sc. Zoology	UGZY09	MEENU PARTHAN
B.Sc. Zoology	UGZY09	MEREN BENNY
B.Sc. Zoology	UGZY09	N. S. SUNILJITH
B.Sc. Zoology	UGZY09	NASRIN FATHIMA
B.Sc. Zoology	UGZY09	NEHAMOL P. RAJ
B.Sc. Zoology	UGZY09	PRATEEKSHA UTHAMAN
B.Sc. Zoology	UGZY09	RAMEESHA RASHEED

B.Sc. Zoology	UGZY09	RESHMA KARTHIK
B.Sc. Zoology	UGZY09	SHARUKH ABBAS
B.Sc. Zoology	UGZY09	SHAWN S. MANICKASSERY
B.Sc. Zoology	UGZY09	SHEBA SOSA SHAJI
B.Sc. Zoology	UGZY09	SONA PHILIP
B.Sc. Zoology	UGZY09	SONAMOL BABU

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
M.Sc.Chemistry	PGCH43	ABHIJITH V
M.Sc.Chemistry	PGCH43	AKSHAY T JACOB
M.Sc.Chemistry	PGCH43	ALEN GEORGE PETER
M.Sc.Chemistry	PGCH43	ASHA V TOM
M.Sc.Chemistry	PGCH43	ELBEE MARIA CYRIL
M.Sc.Chemistry	PGCH43	FARZANA BEEGUM
M.Sc.Chemistry	PGCH43	GAYATHRI K R
M.Sc.Chemistry	PGCH43	JESSIN REJI
M.Sc.Chemistry	PGCH43	LITTY JOSE
M.Sc.Chemistry	PGCH43	MEFIN SABU
M.Sc.Chemistry	PGCH43	RAJILA AK
M.Sc.Chemistry	PGCH43	SHARON SHAJI
M.Sc.Chemistry	PGCH43	SHILPA BIJU
M.Sc.Chemistry	PGCH43	SMOONI ANNA VARGHESE
M.Sc.Chemistry	PGCH43	SREETHU N P
M.Sc.Chemistry	PGCH43	SRUTHY K
M.Sc.Chemistry	PGCH43	THOMAS P THOMAS
M.Sc.Chemistry	PGCH43	TOM BABU
M.Sc.Chemistry	PGCH43	TREESA JOHNY
M.Sc.Chemistry	PGCH43	VARSHA PRASAD



<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
M.Sc.Physics	PGPH42	JITHIN S
M.Sc.Physics	PGPH42	ANJANA.K.S
M.Sc.Physics	PGPH42	ANTO XAVIER MATHEW
M.Sc.Physics	PGPH42	ARUN P
M.Sc.Physics	PGPH42	ASWATHY. A
M.Sc.Physics	PGPH42	JOEL K JOSEPH
M.Sc.Physics	PGPH42	LINTU GEORGE
M.Sc.Physics	PGPH42	PHILOMINA ANTONY
M.Sc.Physics	PGPH42	RESHMA H
M.Sc.Physics	PGPH42	SHERIN ELSA VARUGHESE
M.Sc.Physics	PGPH42	SWATHI A S

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
M.A.English	PGEN40	AGATHA KURIAN
M.A.English	PGEN40	AIMIA MARIA ZACHARIAH
M.A.English	PGEN40	AISWARYA S NAIR
M.A.English	PGEN40	AMITHA ELZA JACOB
M.A.English	PGEN40	ANNINYA MATHEW
M.A.English	PGEN40	ANSA ANNIE PUNNOOSE
M.A.English	PGEN40	ANUJAMOL ABRAHAM
M.A.English	PGEN40	ARUN PHILIP ALEX
M.A.English	PGEN40	ATHIRA A
M.A.English	PGEN40	ATHIRA E K
M.A.English	PGEN40	HANNA MERIN VARGHESE
M.A.English	PGEN40	HARIKRISHNAN V.
M.A.English	PGEN40	KARTHIKA A.
M.A.English	PGEN40	KAVYA UNNI
M.A.English	PGEN40	MARIA GRACE FRANCIS
M.A.English	PGEN40	MATHEW P. THOMAS
M.A.English	PGEN40	MILU ANN SOJAN
M.A.English	PGEN40	NITHYA KRISHNAKUMAR

M.A.English	PGEN40	SOUMYA E. A.
M.A.English	PGEN40	SUMI SOMARAJ

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
M.A. Economics	PGEC41	AARATHI ANILKUMAR
M.A. Economics	PGEC41	ABHIRAM PARACKAL
M.A. Economics	PGEC41	ALEX MATHEW
M.A. Economics	PGEC41	DANIMOL JAMES
M.A. Economics	PGEC41	DHANYA
M.A. Economics	PGEC41	EMEEMA ELSA STANLEY
M.A. Economics	PGEC41	EMIN ZACHARIA ALEX
M.A. Economics	PGEC41	GOPIKA MOHAN
M.A. Economics	PGEC41	JANOVA JOHN
M.A. Economics	PGEC41	JAYASREE K R
M.A. Economics	PGEC41	JOSNA P SHAJAHAN
M.A. Economics	PGEC41	SHALINI SHEKAR
M.A. Economics	PGEC41	SILPA T J
M.A. Economics	PGEC41	SINJU RAJAN
M.A. Economics	PGEC41	VIDYA VIJAYAN

<b>Program Name</b>	<b>Program Code</b>	<b>Name of the student</b>
M.Com.	PGCO44	AJINPAL P S
M.Com.	PGCO44	AKHIL KUMAR A
M.Com.	PGCO44	ANIS K
M.Com.	PGCO44	BASIL M RAJU
M.Com.	PGCO44	BASIL SAJI ZACHARIA
M.Com.	PGCO44	CHAITHANYA CHANDRABABU
M.Com.	PGCO44	CIBU J THOMAS
M.Com.	PGCO44	GREGORY JACOB ABRAHAM
M.Com.	PGCO44	JOSEPH ALEX
M.Com.	PGCO44	NEEMA SUSAN VARGHESE
M.Com.	PGCO44	SANDHRABINOY
M.Com.	PGCO44	SREELAKSHMI SREEKUMAR
M.Com.	PGCO44	SUJIN JACOB
M.Com.	PGCO44	VIJIMOL V V
M.Com.	PGCO45	ABY . B KURIAN
M.Com.	PGCO45	ALBERT SHAJI
M.Com.	PGCO45	ANJU ANODH
M.Com.	PGCO45	ARYA RAJ
M.Com.	PGCO45	ASMITH A SANTHOSH
M.Com.	PGCO45	DONA ANN WILSON
M.Com.	PGCO45	ELIAS J JOHN
M.Com.	PGCO45	GEETHU S
M.Com.	PGCO45	GEORGE RENI
M.Com.	PGCO45	JOSHMA GEORGE
M.Com.	PGCO45	KEERTHANA VIJAY
M.Com.	PGCO45	KURIAKOSE JOHN
M.Com.	PGCO45	MELVIN ABY MATHEW
M.Com.	PGCO45	MELVIN M MONCY
M.Com.	PGCO45	RAJESHWARI RAMACHANDRAN
M.Com.	PGCO45	ROSEMOL JOSE

M.Com.	PGCO45	SAJITHA P SAJAN
M.Com.	PGCO45	SANTHI PRABHAKARAN
M.Com.	PGCO45	SHILPA RAJENDRAN
M.Com.	PGCO45	SHINTU MARY THOMAS
M.Com.	PGCO45	SNEHA EAPEN
M.Com.	PGCO45	SOPHIA THOMASKUTTY
M.Com.	PGCO45	TRISHALA MATHEW
M.Com.	PGCO45	NEHA R BIJU



*Signature*

Dr. BIJU THOMAS  
PRINCIPAL  
BASELIUS COLLEGE  
KOTTAYAM

**SAMPLES OF CERTIFICATES/ REPORTS OF FIELD TRIP**



# DEPARTMENT OF MANAGEMENT

BASELIUS COLLEGE, KOTTAYAM

Programmes Offered: **BBA**

Phone: Dept. - 0481-2582002  
College - 0481-2563918  
Fax: - 0481-2565958  
E-mail: management@baselius.ac.in

## FIELD VISIT REPORT

### INTRODUCTION

As per the curriculum of Mahatma Gandhi University, it was necessary for final year degree students to visit to a local area to document environmental grassland/ hill /mountain as a part of the course ENVIRONMENT SCIENCE AND HUMAN RIGHTS (BA5CRT23). Department of BBA, Baselius College planned, and organized such a field visit which helped the student to increase interest in environmental issues. The Visit was organized with prior permission and guidance of Dr. Biju Thomas, Principal (Baselius College) and Dr. Manoj Narayanan K.S., HOD. The Final year BBA students of Baselius College participated in this visit. The 23 students and four staff members visited Thiruvareppu , a flood affected panchayat of Kottayam Municipality on 27<sup>th</sup> September 2019.

### OBJECTIVES

- Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills.
- Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develop positive attitudes and values.
- To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources.
- To help the students in acquiring the basic knowledge about environment and the social norms that provide unity with environmental characteristics and create positive attitude about the environment.

In the late August 2019, Kerala was affected by severe flooding due to high rainfall in the state. In Kottayam, the low lying western areas as well as the tropical areas are the most affected regions. Flood affected mainly in Kottayam, Changanassery, Pala, Vaikom, municipalities and Kumarakom, Ayarkkunnam, Manarcad, Aymanam, Arppookkara, Thiruvappu, Velloor, Thalayolaparambu and Udayanapuram panchayths. According to the authorities, more than 33.000 persons have been displaced from their homes and joined the 275 relief camps opened in the district. Heavy rain and landslides are the major cause of destruction in the areas. Though water level has receded in several places, it will take a great effort to make the life of people to normal level.

Our team visited Thiruvappu, where the Meenachil and other rivers meet the Vembanad lake. The ecosystem near the banks of river were thoroughly changed. We spent time there with officials of Thiruvappu Panchayat. They explained the rehabilitation steps initiated by the Government over there. After spending time on analysing the damages to the ecosystem, we started our journey back to college.

#### **OUTCOMES OF FIELD VISIT**

- Introduced awareness among the students about the environment and its various problems and it helped the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources.

*[Handwritten Signature]*

Head of the Department





# POSTGRADUATE DEPARTMENT OF COMMERCE

## BASELIUS COLLEGE, KOTTAYAM

Programmes Offered: B.Com (Finance & Taxation), M.Com (Finance & Taxation)

Phone: Dept - 0481-2582002  
College: - 0481-2563918  
Fax - 0481-2565958  
E-mail: commerce@baselius.ac.in  
baseliuscommerce@gmail.com

### FIELD VISIT REPORT

#### INTRODUCTION

As per the curriculum of Mahatma Gandhi University, it was necessary for final year degree students to visit to a local area to document environmental grassland/ hill /mountain as a part of the course ENVIRONMENT MANAGEMENT AND HUMAN RIGHTS (CO5CRT15). Department of Commerce, Baselius College planned, and organized such a field visit which helped the student to increase interest in environmental issues. The Visit was organized with prior permission and guidance of Dr. Biju Thomas, Principal (Baselius College) and Dr. Manoj Narayanan K.S., HOD. The Final year B.Com. students of Baselius College participated in this visit. The 51 students and three staff members visited Kumarakom, one of the beautiful ecosystems of Kerala on 20<sup>th</sup> October 2019.

#### OBJECTIVES

- Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills.
- Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develop positive attitudes and values.
- To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources.



- To help the students in acquiring the basic knowledge about environment and the social norms that provide unity with environmental characteristics and create positive attitude about the environment.

Our team visited Kumarakom, one of the beautiful ecosystems of Kerala. We spent time there with officials of Kumarakom, Panchayat. They explained various cultivation methods adopted by Kumarakom Paddy for improved sustainability of income generation. Though a large variety of vegetables are cultivated in the village, paddy fields cover almost half of the total area. Rice cultivation here is laborious including many steps such as draining the fields and creating bunds. The village, like any other in Kuttanad, lies below sea-level and two crops are planted in a year – Viruppu (Kharif) cultivated between May and September and Punja (Rabi), cultivated between November and March. In Kumarakom, the rice is cultivated in blocks called padasekharams (polders). There are about 58 farmers' groups (padasekhara samithies) in Kuttanad. These samithies ensure joint sowing, dewatering, polder preparation and irrigation activities. Rice cultivation in Kumarakom, though economically viable, is not easy. There is a cycle of activities that begins with the removal of aquatic weeds from the rice fields. Another essential initial preparation is the construction or repair of outer bunds for the fields. As farming is done below the sea level, such bunds are necessary for dewatering.

Mixed crop cultivation is a thriving agricultural system in Kumarakom. In this type of cultivation, a variety of crops are cultivated and livestock farming is also carried out. This integration reduces risks. Moreover, the output from one sector can be used in others. This kind of farming has resulted in increased production and improved sustainability of income generation.

### **OUTCOMES OF FIELD VISIT**

- Helped students in acquiring the basic knowledge about environment and the social norms that provide unity with environmental characteristics and create positive attitude about the environment.

*[Handwritten Signature]*

Head of the Department





**FIELD VISIT REPORT**

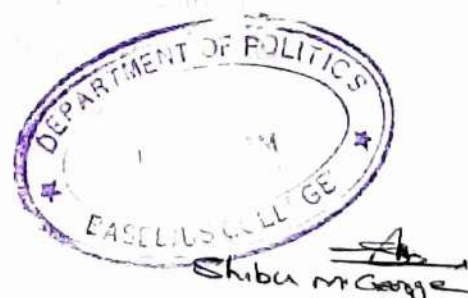
Date 28/10/2019

**INTRODUCTION**

As per the curriculum of Mahatma Gandhi University, it was necessary for final year degree students to visit to a local area to document environmental grassland/ hill /mountain as a part of the course ENVIRONMENTAL POLITICS AND HUMAN RIGHTS (PS5CRT08). Department of Political Science, Baselius College planned, and organized such a field visit which helped the student to increase interest in environmental issues. The Visit was organized with prior permission and guidance of Dr. Biju Thomas, Principal (Baselius College) and Shibu M. George, HOD. The Final year Political Science students of Baselius College participated in this visit. The 39 students and three staff members visited Vadavathoor, a polluted site in Vijayapuram Panchayat of Kottayam Municipality on 27<sup>th</sup> October 2019.

**OBJECTIVES**

- To Visit a local polluted site.
- Environmental Education encourages students to research, investigate how and why things happen, and make their own decisions about complex environmental issues by developing and enhancing critical and creative thinking skills.
- Environmental Education helps students to understand how their decisions and actions affect the environment, builds knowledge and skills necessary to address complex environmental issues, as well as ways we can take action to keep our environment healthy and sustainable for the future. It encourages character building, and develop positive attitudes and values.
- To develop the sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources.




- To help the students in acquiring the basic knowledge about environment and the social norms that provide unity with environmental characteristics and create positive attitude about the environment.

Solid Waste is an unavoidable byproduct of most human activities. Kerala state being enriched by natural resources and good environmental conditions is also going through the phase of urban development. Kottayam City is considered as the administrative capital of Kottayam district located in south-west of Kerala. The waste treatment practices of the city have major impact on human health, air quality, water quality, ecological, aesthetic and development dimensions. The dumping yard for Kottayam Town and nearby places like Panachikkad, Athiranpuzha, Naatakam, Aimanam, Puthupalli, Vijayapuram and Ettumannor is located at Vadavathoor. Currently at Vadavathoor, waste is dumped in an unhygienic manner. The dump yard at Vadavathoor is located in the Vijayapuram Panchayat of Kottayam Municipality and is 7.42 acres in area. Earlier the dump yard consisted of a compost manufacturing unit treating organic, putrescible matter. But due to change in composition of waste generated the treatment process became inefficient which resulted in open dumping. Segregation of waste was not done in a proper way which added to this menace. Increased dumping of collective waste in the yard gave rise to many public problems. Due to this the air had a bad stench and the ground water table was polluted due to the leachate leaking problems. Now the dump yard has no activities of waste treatment going on but problems arise due to leaking of leachate leading to water pollution resulting in degradation of the drinking water quality and making it unfit for drinking purposes. Various contagious diseases were reported due to the consumption of this water.

#### OUTCOME OF THE VISIT

- Developed sense of awareness among the students about the environment and its various problems and to help the students in realizing the inter-relationship between man and environment and helps to protect the nature and natural resources.

  
 Shibu M. George  
 HSY/c

## FIELD VISIT REPORT

### INTRODUCTION

As per the curriculum of Mahatma Gandhi University, it was necessary for B.SC. Botany to visit to any one of the ecosystems rich in Algae to experience algal diversity as a part of the course **Methodology of Science and an Introduction to Botany** (BO1CRT01) and **Phycology and Bryology** (BO3CRT03). Department of Botany, Baselius College planned, and organized such a field visit which helped the student to increase interest in algal diversity. The Visit was organized with prior permission and guidance of Dr. Biju Thomas, Principal (Baselius College) and Prof. Arabhi P., HOD. The Final year B.Sc. Botany students of Baselius College participated in this visit. The 39 students and four staff members visited Thirumullavarum, Kollam district on 8<sup>th</sup> June 2019.

### OBJECTIVES

- To identify and collect plant specimens to appreciate the diversity of plant kingdom.
- To identify plants with vascular elements, plants which produce flowers, fruits, seeds, cone, sporophyll, embryos and study their salient features.
- To experience algal diversity.

Marine ecosystem exploration and algal collection trip, were conducted to Thirumullavarum, Kollam district on 8<sup>th</sup> June 2019, accompanied by three teaching staff (Dr Geethalakshmi, K, Dr Sajish PR, Dr Krishnaraj M V ) and one laboratory assistant (Varghese A.M.) Students collected marine algae and learned about their distribution pattern.





### **OUTCOMES OF FIELD VISIT**

- Students collected plant specimens to appreciate the diversity of plant kingdom.
- Students collected marine algae and learned about their distribution pattern

## FIELD VISIT REPORT

### INTRODUCTION

As per the curriculum of Mahatma Gandhi University, it was necessary for B.SC. Botany to visit established horticultural/agricultural/ornamental/kitchen gardens and observe the components there and also to have idea about taxonomy as a part of the courses **Genetics, plant breeding and horticulture** (BO6CRT09) and **Angiosperm, Morphology & Economic Botany** (BO6CRT11) .Department of Botany, Baselius College planned, and organized such a field visit which helped the student to increase interest in taxonomy. The Visit was organized with prior permission and guidance of Dr. Biju Thomas, Principal (Baselius College) and Prof.Arabhi P., HOD. The Final year B.Sc. Botany students of Baselius College participated in this visit. The 39 students and four staff members visited Wayanad, Balur and Coorg on 02/01/2020 .

### OBJECTIVES

- To visit established horticultural/agricultural/ornamental/kitchen gardens and observe the components there
- To collect plants and make herbarium

Taxonomy field trip for plant collection to the final year students were conducted from 02/01/2020 to 06/01/2020 to Wayanad, Balur and Coorg. Plants were collected,pressed and made them as the herbarium specimens which were submitted at the time of practical exams. Students visited Gurukula botanical garden at Wayanad which is famous for ferns conservation. They also visited Tea factory where the technical assistants well explained the processing of tea leaves.





### **OUTCOMES OF FIELD VISIT**

- Students collected plant specimens and prepared herbarium which were submitted at the time of practical exams.
- Students got awareness regarding the functioning of horticultural/agricultural/ornamental/kitchen gardens

# **INDUSTRIAL VISIT REPORT**

## **RUBBER RESEARCH INSTITUTE**

### **PUTHUPALLY, KOTTAYAM**

#### **INTRODUCTION**

As per the curriculum of Mahatma Gandhi University, it was necessary for final year BSc Chemistry students to visit the industries / research institute to get the practical knowledge about best practices followed there, so that the Department of Chemistry, Baselius College planned, and organized research institute visit which helped for student to increase interest in research culture.

The Industrial Visit was organized with prior permission and guidance of Dr. Biju Thomas, Principal (Baselius College) and Dr. Suma Bino Thomas, HOD, Department of Chemistry.

The Final year B.Sc Chemistry students of Baselius College participated in this industrial visit. The 39 students and four staff members visited Rubber Research Institute of India (RRI) Kottayam on 2<sup>nd</sup> March 2020.

#### **PLACE AND DATE**

The Department of Chemistry, Baselius College organized a One Day Industrial Visit at Rubber Research Institute of India, Kottayam on 2<sup>nd</sup> March 2020.

#### **OBJECTIVES**

1. To increase interest and develop Research Culture
2. To enhance quality and skills of the student practically

#### **ABOUT RRI**

The Rubber Research Institute of India (RRI) was established in 1955. The Institute has attained a prestigious position in the international rubber scenario through its research contributions. RRI is a member of the International Rubber Research and Development Board (IRRDB) and actively participates in many international research programmes.

It is located on a hillock in the eastern suburb of Puthupally, Kottayam, eight kilometers from the town. The Institute is headed by the Director (Research) and the major divisions are

1. Agricultural Economics
2. Agronomy/Soils
3. Biotechnology / Genome Analysis
4. Botany / Clone Evaluation
5. Germplasm
6. Latex Harvest
7. Plant Pathology
8. Plant Physiology



- 9. Rubber Technology
- 10. Technical Consultancy

## **AREAS OF RESEARCH AND PRIORITIES**

The research priorities are:

Improvement in production and productivity through :

- Evolving and introducing location specific high yielding clones
- Molecular biology and genetic engineering

Integrated approaches to reduce cost of production and improve quality competitiveness through:

- Efficient field management systems to reduce immaturity period.
- Introducing appropriate rubber based farming systems in different agroclimatic regions.
- Exploitation systems to reduce tapping cost.
- Optimization of plant protection schedules.
- Molecular approaches in plant disease control.



## **DETAIL ABOUT INDUSTRIAL VISIT**

Dr. .... Scientist of Rubber Technology Division addressed the students and introduced about RRI. He explained about the history and functioning of the Institute. He detailed on how rubber was brought to the Indian Territory by the British. It was interesting to hear the details on the discovery of rubber and how it passed down to all the countries. The students were also informed of various technical terms and important processes involved in the rubber formation. Then we visit the Rubber Processing Lab.

Natural rubber is tapped from rubber trees (*Hevea brasiliensis*) as latex. Latex is a colloidal dispersion of solid particles of the polymer polyisoprene in water. Polyisoprene ( $C_5H_8$ )<sub>n</sub> is the chemical substance that comprises rubber, and its content in the emulsion is about 30%. The most common method of extracting the rubber from latex uses coagulation, a process that thickens the polyisoprene into a mass. This process is accomplished by adding an acid such as formic acid to the latex. The coagulation process takes about 12 hours. The coagulum, now soft solid slabs, is then squeezed through a series of rolls which drive out most of the water. The sheets are then

draped over wooden frames and dried in smokehouses. Rubber, whether natural or synthetic, arrives at processor plants in large bales. Once the rubber arrives at the factory, processing goes through four steps:

1. Compounding/Mastication

The process of softening by means of mechanical shearing is called mastication. This allows for better incorporation of materials, which leads to the mixing component, when the other materials for a compound are added. The raw rubber after being masticated, other ingredients needed to be compounded into the raw polymer either on a mixing Kneader or other rubber mixing machine and then pass to two roll mill for dispersion and sheeting out for rubber compound that is suitable for molding dimension. The most commonly used reinforcing filler is carbon black. Carbon black increases rubber's tensile strength and resistance to abrasion and tearing. Stearic acid is added to soften the compound. Activators like zinc oxide are added to the rubber to increase its properties. Antioxidants like ozone, water, oxygen or temperature is added to prevent atmospheric influences.

2. Mixing

The additives must be thoroughly mixed with the base rubber to achieve uniform dispersion of ingredients. To prevent premature vulcanization, the mixing usually takes place in two stages. During the first stage, additives like carbon black are mixed into the rubber. This mixture is referred to as a masterbatch. Once the rubber has cooled, the chemicals for vulcanization are added and mixed into the rubber.

3. Shaping

Shaping rubber products occurs using four general techniques: extrusion, calendaring, coating or molding, and casting. More than one shaping technique may be used, depending on the final product.

4. Curing / Vulcanizing

Vulcanization completes the rubber-production process. Vulcanization creates the cross-connections between the polymers of rubber, and the process varies depending on the requirements of the final rubber product.

After the talk, we moved to the Rubber Processing Lab to explain about the machines involved in the processing of rubber.

## **INTER MIXER & TWO MILL ROLL**

These were placed in 1966 in this institute. Various raw materials are weighed according to formulation and are prepared as a batch for mixing process. The raw materials are fed in the milling machine (inter mixer / open mixing mill) in a predefined sequence where mastication of rubber takes place. The above chemicals are masticated in the mixing mill to form sheets.



The two roll mill is composed of rolls, bearings, frame, frame cap. To produce the rubber used in tyres, hoses, shoes and many other applications, the rubber first has to be created using a two roll rubber mill. The rubber is fed through the gap and it is flattened out. The rolls rotate towards each other, one faster than the other. The distance between the two rolls can also be adjusted by the operator. The opposing rotation directions and different speeds produce a combined shear and compression force on the material being mixed on the mill. Quality checks such as rheometric properties testing are done on the compound prepared.



## RHEOMETER

A rheometer is a laboratory device used to measure the way in which a liquid, suspension or slurry flows in response to applied forces i.e. the viscoelastic properties of elastomeric and rubber compounds before, during and after curing.

It is a testing equipment that measures changes in torque that vary with rubber by oscillation and determines the vulcanization characteristics based on changes in the maximum torque, the minimum torque, scorch time, cure time, viscoelasticity, and other factors when the rubber component is entered between the upper and lower dies of a flat plate at a specified temperature and is subjected to sinusoidal torsional oscillation. The tests that are performed on the Rheometer are done in about 3-5 minutes and are used to identify the possible problems in a compounded rubber formula. The raw rubber sample is placed between two dies, in which the lower die oscillates with a  $\pm 0.5$  degree movement and the upper die is connected to the torque sensor to measure the torque response of the rubber at the deformation. The raw rubber is heated to a working temperature that is between  $170^{\circ}\text{C}$  and  $190^{\circ}\text{C}$ . They use plastic film which is usually polyamide or polyester that is placed between the samples to prevent cross contamination of the dies during the testing of different products.



The results of the test on the Rheometer are transferred to a computer screen and the results of the processing phase shows the cross linking characteristics and viscous behavior of the compound, creating working information about the how easy the material will process and how the rubber will act inside the molds.

## HYDRAULIC PRESS

The hydraulic press is the machine used to compress the rubber and mold into different products. It is done by feeding the temperature and cure time obtained from the rheometer and the machine runs till the particular time is reached. The main function of this machine is to give various desirable shapes to the rubber.



Then we moved on to the **Rubber Testing Laboratory** where the properties of rubber are tested out to ensure maximum quality. The Rubber Board operates a scheme for testing and inspection of rubber. Block Rubber (ISNR) and Centrifuged Latex are graded by physical and chemical tests and marked “ISI” to ensure conformity to the set standards. The Rubber Board is authorized to inspect and certify the Indian standards for Natural Rubber. In rubber testing laboratory the students were exposed to various machines such as,

## UNIVERSAL TESTING MACHINE



The **Universal Testing Machine** is used to test the mechanical properties (tension, compression etc.) of a given test specimen by exerting tensile, compressive or transverse stresses. The specimen is placed in the machine between the grips and an extensometer. An extensometer is used for measuring extension or deformation. It can automatically record to change in gauge length during the test.

## PARTICLE SIZE ANALYZER & ZETA POTENTIAL ANALYZER

There was also **Particle Size Analyzer** which uses the UV spectrum and scattering to find the particle size. The angle of light scattering is inversely proportional to **particle size** ie. the smaller the **particle size**, the larger the angle of light scattering. The equipment utilizes red and blue laser lights to measure particle sizes between 0.1 to 1000  $\mu\text{m}$ . The latex was first diluted to 0.01 wt% and then transferred into the particle size analyzer using a dispersing unit.





The Zeta Potential Analyzer finds the zeta potential of the particular rubber compound. Zeta potential is the charge on a particle at the shear plane. This value of surface charge is useful for understanding and predicting interactions between particles in suspension. The zeta potential of a sample is most often used as an indicator of dispersion stability. Large zeta potentials predict a more stable dispersion. The measurements are made by adding a small amount of suspension or emulsion to the measurement cell and inserting the cell into the instrument. The instrument software then automatically determines the appropriate electric field strength, adjusts the reference beam intensity to ensure the optimal signal to noise ratio, collects and analyzes the data, and presents the results to the user. The equipment uses a He-Ne laser (red Light) of 633 nm wavelength.

### **DEMATIA FLEXING FATIGUE TESTER**

The Demattia Flexing Fatigue Tester is used to test the fatigue property and ensure high quality of the material. The DeMattia Fatigue test is a dynamic test measuring the resistance of a material to cracking.



This cracking is performed by flexural extension or bending. The number of cycles is measured and the crack growth or resistance to crack growth is determined. This machine measures the fatigue resistance of rubber. It is used to determine the flex life of cured rubber compound like sidewall compound of a tyre in different extension modes of ambient and high temperatures. Rubber rings are mounted vertically on pulleys which are free to rotate. Each specimen is expanded repeatedly at various strains at 300 cycles per minute to failure.

After the completion of the visit, the students expressed their thanks to the officials for the opportunity given by them.

We conclude that while going through the entire industrial visit, the cooperation is found to be very well organized, developed & most ideal institute in every walk of its production, administration & management aspects. It is rightly said that “See & know’ is better than ‘read & learn’. We have got real feel of institute research activities after this visit.



केन्द्रीयसमुद्रीमात्स्यकीअनुसंधानसंस्थान

(भारतीयकृषिअनुसंधानपरिषद)

[कृषिअनुसंधानएवंशिक्षाविभाग, कृषिमंत्रालय, भारतसरकार]

Central Marine Fisheries Research Institute

(Indian Council of Agricultural Research)

[Department of Agricultural Research and Education, Ministry of Agriculture, Govt. of India]



पोस्टबोक्सं. 1603, एरणाकुलमनोर्तपी.ओ., कोच्ची- 682018, केरल, भारत

Post Box No. 1603, Ernakulam North P.O., Kochi - 682018, Kerala, India

Phone: 91 484 2394867/2391407 Fax: 91 484 2394909/2396685 Email: director@cmfri.org.in Web: www.cmfri.org.in

F.No. 20/2018-19/ATIC/SEETTD

Date:18/12/2019

From

Dr. V P Vipinkumar  
Manager ATIC  
CMFRI Kochi-18

To

The Principal  
Baselius College  
Kottayam

Sir,

Ref: Your communication /e-mail/ enquiry dated 17/12/2019

With reference to the communication cited above, I am directed to convey the permission of Director, CMFRI to visit your team to CMFRI on **02.01.2020 at 2 pm**, Subject to the following conditions:-

1. The students will be charged an entrance fee @ Rs. 10/- per head and the faculties/adults @ Rs. 20/- per head.
2. On arrival of your team at CMFRI please report to the Reception counter.
3. On arrival, please bring a hard copy of this permission – letter.

You will be permitted to visit only the Marine Biodiversity Museum & Aquarium. In case you are in need of any clarifications / information etc. Please contact Mrs.Salini K P (Contact No. 09446089588) or, Mr. Vysakhan. P (Contact No.9656803993). Kindly send your confirmation at the very earliest.

Thanking you,

Yours faithfully,

(Sign)  
Dr. V P Vipinkumar

Telephone : 0484-2412300  
Fax : 0091-484-2668212

www.cift.res.in  
E-mail : aris.cift@gmail.com  
cift@ciftmail.org



भाकृअनुप - केन्द्रीय मात्स्यिकी प्रौद्योगिकी संस्थान  
**ICAR - CENTRAL INSTITUTE OF FISHERIES TECHNOLOGY**  
सिफ्ट जंक्शन, विल्लिडन आईलैंड, मत्स्यपुरी पी.ओ., कोचिन, - 682 029, केरल, भारत।  
CIFT Junction, Willingdon Island, Matsyapuri P.O., Cochin, - 682 029, Kerala, India.  
(ISO/IEC 17025: 2005 Accredited & ISO 9001: 2008 Certified)



F.No.ATIC-2-1/2017-18(EIS)

17.12.2019

डॉ। रीजिता वी।

असिस्टेंट प्रोफेसर और विभागाध्यक्ष

जूलॉजी विभाग, बेसेलियस कॉलेज, कोट्टायम।

Dr. Rejitha V.

Assistant Professor & HoD

Department of Zoology,

Baselius College, Kottayam.

महोदया/Madam,

विषय/Sub : केमाप्रोसंके दौरे की अनुमति हेतु /Permission to visit ICAR-CIFTreg-

संदर्भ/Ref : आपका मेल / Yr. Lr. dt.17.12.2019

उपर्युक्तC संदर्भ के पत्र के अनुसार यह सूचित किया जाता है कि सक्षम अधिकारी के द्वारा आप 2 जनवरी 2020, 10:00 बजे भा कृ अनु प - केन्द्रीय मत्स्य प्रौद्योगिकी संस्थान में अपनी टीम के साथ आ सकते हैं। आप कृषि प्रौद्योगिकी सूचना केंद्र, जैव रसायन प्रयोगशाला, अभियांत्रिकी अनुभाग, मत्स्य संसाधन प्रयोगशाला और पयलेट प्लांट देख सकते हैं। कैंपस में वीडियो व फोटो लेना मना है। यदि आपको कोई सूचना या स्पष्टीकरण की जरूरत है तो अघो हस्ताक्षरी से संपर्क करें। आपकी पुष्टि तुरंत करें

With reference to your communication cited above, it is informed that permission is accorded by the competent authority for the visit of your team (37 Zoology students and 2 staff members from Baselius College, Kottayam) to the ICAR-Central Institute of Fisheries Technology on 2<sup>nd</sup> January 2020 at 10:00 hrs. You will be permitted to visit the Agricultural Technology Information Centre (ATIC), Biochemistry & Nutrition Laboratory, Engineering Division, Fish Processing Laboratory and Pilot Plant.

No videography or photography is permitted inside the campus. In case you are in need of any clarifications/information, please contact the undersigned. Kindly send your confirmation at the very earliest.

सधन्यवाद/Thanking you,

भवदीय/Yours faithfully,

डॉ. अमृत्युकुमारमोहंती / Dr. Amulya Kumar Mohanty

प्रधान वैज्ञानिक & प्रभाग के प्रमुख / Principal Scientist & Head

विस्तार सूचना एवं सांख्यिकी अनुभाग/ Division of Extension, Information & Statistics

Ph. +91-9485175853 (Mob.) +91-484-2412316 (O)


# BASELIUS COLLEGE, KOTTAYAM

## PROPOSAL FOR THE STUDY TOUR PROGRAMME (2019-20)

1. Name of the College : BASELIUS COLLEGE, KOTTAYAM
2. Department of study : ZOOLOGY
3. Subject of study : ZOOLOGY
4. Academic year : 2019-2020
5. Number of students participating : 37 nos. Attached separately  
(Gender wise list indicating name & age)
6. Proposed date of commencement of tour : 02-01-2020
7. Date of completion of tour : 05-01-2020
8. Total number of Days : 03 days
9. Whether the study tour is as per syllabus. : Yes, Copy of syllabus attached  
(attach the relevant part of syllabus)
10. Proposed place of visit outside Kerala : Mysuru, Coorg
  
11. Total number of Halt : 01
12. Programme Chart : Tour itinerary attached  
(Detailed Itinerary to be attached)
13. Mode of Conveyance : By road (Bus)
14. Name and Designation of Staff accompanying students }
  1. Dr. Rejitha V, Assistant Professor
  2. Dr. Anit M. Thomas, Assistant Professor
15. Lady Escort with Designation : Dr. Rejitha V, Assistant Professor

### CERTIFICATE

Certified that the study tour organized by the Department is purely academic in nature, prescribed syllabus and the tour report is subjected to evaluation.

Signature, Name and Designation of HOD with Date:  Dr. Rejitha V., Assistant Professor.

Recommendation of the Principal :

Principal  
Basellus Colle  
Kottayam

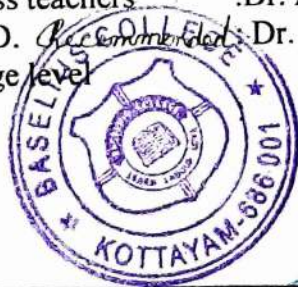




**BASELIUS COLLEGE, KOTTAYAM**  
**PROFORMA FOR STUDY TOUR/ EXCURSION (2019-20)**

(To be submitted by the HOD to the Principal)

01. Name of the Department : ZOOLOGY
02. Class : D3 ZOOLOGY
03. No. and name of the students (Separate list should be attached.) : Separate list attached
04. Teacher/s in-charge with phone No. : Dr. Rejitha V, Mob. No. 9495324041  
Dr. Anit M. Thomas, Mob. No. 9446552081
05. Places to be visited (Detailed Itinerary to be attached) : CIFT-Kochi, CMFRI-Kochi (IV), Mysuru, Coorg (Attached separately)
07. Date and time of departure : 02-01-2020, 06.00 am
08. Date and time of arrival : 05-01-2020, 06.00 am
09. Lodging places on the way and Telephone Numbers, if known :SK Continental, Mysuru,09481218237
10. Name of the Tour operator and name & Register No. of Vehicle :Sky Holidays Tours and Packages, Kollam.  
Mr. Sanjo Wilfred  
Mob. Nos. 8660329877,8129054168  
KL-31-P-0076
11. Name and signature of the student leader : Shawn S. Manickassery *Shawn*
12. Name and signature of the class teachers :Dr. Anit M. Thomas *Anit*
13. Recommendation of the H.O.D. : Dr. Rejitha V *Rejitha*
14. Recommendation of the college level Tour Co-ordinator : *Recommended Rejitha*



**PRINCIPAL**

**GUIDELINES FOR ORGANISING TOURS**

- (A) Prior permission from the Principal should be obtained for all Tour Programmes.
- (B) A detailed time schedule and itinerary should be submitted along with the application form
- (C) At least one lady teacher should accompany the Tour Party whenever female students are included.
- (D) Departments with study tours in their syllabus should get prior sanction of the Deputy Director of Collegiate Education for travelling outside Kerala to avoid audit objection regarding T.A., D.A., for accompanying Staff.
- (E) Please see that the study tour as per syllabus should be limited to the days prescribed for them and excursions should be limited to a period of two days and three nights.
- (F) All communications regarding study tours should be sent to the college level Tour Coordinator.

Date: 18/12/2019

Accompanying staff members : 1. Dr. Rejitha V, Assistant Professor  
2. Dr. Anit M. Thomas, Assistant Professor

Name & Signature of the HOD : Dr. Rejitha V



(Dept Seal)

Place : Kottayam

Date : 18/12/19



  
Principal  
Baselius C



# BASELIUS COLLEGE, KOTTAYAM

## DAY WISE TOUR ITINERARY

Day & Date	Scheduled time of activity	Particulars of tour	Details of Accommodation and other information if any
Day 01 02/01/2020	06.00AM  08.00AM 09.30AM 12.30PM 1.15PM 04.00PM  05.30PM 08.30 PM	Pickup from College and proceed to Ernakulum. Breakfast CIFT -KOCHI (TV) Lunch CMFRI -KOCHI(TV) Boat Cruise and local sightseeing at Kochi Proceed to Mysuru Dinner	
Day 02 03/01/2020	07.30 AM  09.30 AM 10.30AM 12.00 PM 01.30PM 02.00PM 03.00PM 05.30PM 07.30PM 08.30PM	Reach at Mysuru and check in to Hotel Breakfast Mysuru Zoo Shuka Vana Lunch Mysuru Palace Chamundi Hills Bridhavan Garden DJ Camp fire Dinner and Overnight stay	Accommodation at  S K Continental Nazarbad Main Road, Nazarbad Mysuru-570010. Ph. No. 09481218237
Day 03 04/01/2020	06.00AM  08.30AM 10.30AM 11.30AM 02.00PM 02.30PM  06.00 PM 08.30PM	Proceed to Coorg from Mysuru Breakfast Golden Temple River Rafting Lunch Nisargadhama Bamboo forest. Shopping and free life Dinner proceed back to College	
Day 04 05/01/2020	07.00 AM	Return at College	

Name & Signature of the HOD : Dr. Rejitha V



(Dept Seal)

Date: 13/12/19

Recommendation of the College level Tour Coordinator:

*Dr. Rejitha V*  
Dr. Rejitha V



## GUIDELINES FOR CONDUCTING TOUR FOR THE ACADEMIC YEAR 2019-20

- Prior permission from the Class teachers, HODs & Principal should be obtained for all Tour Programmes.
- A detailed time schedule and itinerary should be submitted along with the application form
- At least one lady teacher should accompany the Tour Party whenever female students are included.
- Departments with study tours in their syllabus should get prior sanction of the Deputy Director of Collegiate Education for travelling outside Kerala to avoid audit objection regarding T.A., D.A., for accompanying Staff.
- Please see that the study tour as per syllabus should be limited to the days prescribed for them and excursions should be limited to a period of **two days and three nights**.
- Application for study tour should be given in the prescribed proforma and it should reach the Principal's office at least 20 days before the scheduled day of departure as prior sanction from Deputy Director of Collegiate Education is required for the tour.
- The Department Heads are requested to take extra care in finalizing the tour operators to avoid any possible inconveniences in the future.
- The departments should ensure that the campus and the surroundings will not be polluted by noise, crackers, explosives, etc. while leaving for tour or returning from it.
- Tour should follow the schedule.
- Teacher and student participants of the tour must conduct a meeting with the Principal before the scheduled departure.
- The directions by the UGC, Government and M. G. University from time to time will have to be strictly adhered to.
- It is requested to finish the study tours preferably by 20<sup>th</sup> of January 2020.
- All communications regarding study tours should be sent to the college level Tour Coordinator.

### **Directions to the students**

- The students shall obey the directions given by the teachers accompanying them and any act of indiscipline will be severely punished. The teachers can cancel the trip at any time if found necessary after intimation to the HOD and the Principal.
- The use of alcohol drugs and tobacco is strictly prohibited.
- The tour party shall leave the college campus either by 6.30 pm or before 6.30 am on the scheduled day of departure and shall reach the college by 7.00 am or by 7.00 pm on the scheduled day of arrival.
- Any Cyber related offences will be reported to the cyber cell.
- Only those students in the tour list will be permitted to enter the bus and those students who are not in the nominal roll shall not be a part of the tour party
- Each student should give the consent letter from the parent and get it signed by them.



## **FIELD VISIT- OCCUPATIONAL ZOOLOGY**

### **INTRODUCTION**

Apiculture or beekeeping is the practice of maintaining honeybee colonies, usually in hives. This could be for collecting honey, beeswax or for pollinating crops, or for the purpose of selling bees to other beekeepers. Apiary is a farm/location at which bees are kept.

### **TRIP OBJECTIVES**

The objective of the trip was to know more about apiculture in more details in terms of their seasonal vice culture, how to culture honey bees, and also to learn about the culture of honey bees in our college also.

### **FIELD OBSERVATION**

The field visit to an apiary located at Kanjirapally was conducted on 22nd November 2019. A group of 51 students and 2 teachers started their journey at 10am and reached the site at 11.45am. Joseph sir, the apiarist, welcomed the group. He had been engaged in this field for the past 10 years.

In the theory session he gave a small introduction about bee species and its gathering ability. The bees domesticated in the apiary were *Apis indica* and *Apis florea*. He taught about various periods of bee development that is May-June: the period of scarcity (food should be provided), Sep-June: the growth period and June-April as the period of honey collection. Then he explained about the enemies that are a threat to honeybees or cockroaches, wasps etc., and various techniques to capture them, this was followed by a demonstration on beehive structure, their parts, layers, uses etc.

In the practical session, he explained the importance and morphological differences between queen, drones, and worker bees. The methods of honey extraction, various tools and techniques used for the extraction and the working principle behind them.

We were guided by a host Mr. Joseph sir and his partner who explained in details about their honey culture. During our trip, we jotted down some notes and interviewed the host about the production of honey bees over seasons. Some questions and answers session between students and the host, while on our trip observation we also studied to manage to collect more information about honey bees.



Due to time about 12:45 pm we started to find one honeybees box to transver to a new box for that 1st we should find the Queen from the comb then only we should change to next box, but we couldn't found Queen from the box, we separate them to 2 boxes for finding Queen, then we move on to another area we choose another box and start finding Queen there also we couldn't found but we got a chance to see how the baby honey bee comes out from the comb, it was an other experience after that we again move to the 1st box there we find the Queen.

Due to time constraints as there were many things to watch and to ask. We tried to get the contact number of the host to arrange a honey bee farm in our college. We learned various things and fiund many products, we got more information about this.

About to the end of our trip the host requested to share experience 2 students share there experience. We thanked the host for giving a chance to visit here.



honey extractor



honey heating containers



honey storage tank

## CONCLUSION

The field visit was very successful as well as amazing and informative. We were able to taste pure honey, and touch and learn visually about bees in a tactile manner. We decided to start a honey bee unit in our college and made arrangements for the implementation. After thanking Joseph sir for the wonderful session we reached back college at 3.00pm.





International and Inter University  
Centre for Nanoscience and Nanotechnology  
Mahatma Gandhi University  
Kottayam-686 560, Kerala, India

Tel: 0481 2731043, 2731669 (Office), 09447671962(Mobile) E-mail: <nkkalarikkal@mgu.ac.in>

Prof. (Dr.) Nandakumar Kalarikkal  
Hon: Director

07<sup>th</sup> July 2020  
06/IIUCNN/2020-21

### CERTIFICATE

This is to certify that the dissertation entitled "*SYNTHESIS OF SPINEL NICKEL FERRITE NANOPARTICLES AND CHARACTERISATION USING FTIR*" is an authentic record of project work carried out by Ms. ELBEE MARIA CYRIL (PRN: 180011010224) under my supervision in partial fulfilment of the requirement for the degree of Master of Science in Chemistry during 2018-2020, and further that no part thereof has been presented before any other degree.

*Handwritten signature/initials*  
07/07/2020



Prof. (Dr.) Nandakumar Kalarikkal

DIRECTOR

International & Inter University Centre  
for Nanoscience & Nanotechnology



പ്രായോഗിക രസതന്ത്ര വിഭാഗം  
**DEPARTMENT OF APPLIED CHEMISTRY**  
 കൊച്ചി ശാസ്ത്ര സാങ്കേതിക സർവ്വകലാശാല  
**COCHIN UNIVERSITY OF SCIENCE AND TECHNOLOGY**  
 KOCHI - 682 022, KERALA, INDIA

**Certificate**

This is to certify that the thesis entitled "METAL OXIDE RGO NANOCOMPOSITE MODIFIED PLATINUM ELECTRODE FOR ELECTROCHEMICAL DETECTION OF L-DOPA." submitted by ABHIJITH V V in partial fulfilment of the requirements for the degree of Master of Science in Chemistry, of Mahatma Gandhi University, Kottayam. is an authentic record of the original work carried out by him under my guidance and supervision. The results embodied in this thesis, in full or in part, have not been submitted for the award of any other degree.

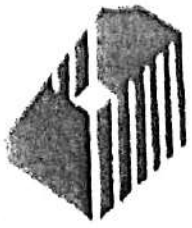
Kochi-22  
 Date:09.07.2020



*Leena R*  
 Dr. Leena R  
 (Supervising Guide)

Dr. Leena R  
 Department of Applied Chemistry  
 Cochin University of Science and Technology  
 Kochi - 682 022 Kerala

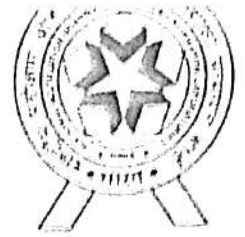




# J. J. Murphy Research Centre

(ANABH ISO IEC 17025:2017 Accredited Laboratory)

Rubber Park India (P) Ltd  
(A joint venture of Rubber Board & KINFRA)  
I A, Kautileeyam, Rubber Park, Valayanchurangara  
Ernakulam - 683 556, Kerala, India



Certificate Number: TC-R657

Email: [contactjrmrc@gmail.com](mailto:contactjrmrc@gmail.com)  
[dra@rubberparkindia.org](mailto:dra@rubberparkindia.org)  
Website: [www.rubberparkindia.org](http://www.rubberparkindia.org)

Ph: (0484) 2655548  
2655538  
Fax: 2657218

RP/R/PR/

14720

07.07.2020

## CERTIFICATE

Certified that this project report titled "SYNTHESIS OF NANO CELLULOSE AND ITS REINFORCEMENT IN NR-GELATIN BLEND" is the bonafide work of Miss. JESSIN REJI (Register No.180011010227) who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Supervising guide

  
07/07/2020



External: Mr. DILEEP P.

ASST. DIRECTOR  
J J MURPHY RESEARCH CENTRE  
RUBBER PARK INDIA (P) LTD.  
ERNAKULAM - 683 556




1415: Trng: P- 4028

23rd December 2019

## CERTIFICATE

This is to certify that **Mr. Alen George Peter** student of **Baselius College Kottayam** has successfully completed his Project work titled "**Quality assessment study of High Speed Diesel using various analytical techniques**" at Bharat Petroleum Corporation Limited-Kochi Refinery from 06.05.2019 to 17.5.2019 and submitted report. He has shown enthusiasm in learning and involved himself during the period of training.

We at Bharat Petroleum Corporation Limited-Kochi Refinery wish him the best and success in his life and career.

  
Rafiha Khan  
Chief Manager L&D, KR



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Centre for Nanoscience and Nanotechnology

Mahatma Gandhi University

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Prof. (Dr.) Nandakumar Kalarikka  
Hon. Director

07<sup>th</sup> July 2020  
08/HUCNN/2020-21

### CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERISATION OF NICKEL FERRITE NANOPARTICLES" is an authentic record of project work carried out by Ms. SMOONI ANNA VARGHESE (PRN: 180011010233) under my supervision in partial fulfilment of the requirements for the degree of Master of Science in Chemistry during 2018-2020, and further that no part thereof has been presented before any other degree.

  
07/07/2020



  
Prof. (Dr.) Nandakumar Kalarikka  
DIRECTOR  
International & Inter University Centre  
for Nanoscience & Nanotechnology

भारत पेट्रोलियम कॉर्पोरेशन लिमिटेड

भारत सरकार का उपक्रम  
कोच्चि रिफ़ाइनरी



BHARAT PETROLEUM CORPORATION LIMITED

A Govt. of India Enterprise

Kochi Refinery

1415: Trng: P- 4011

23<sup>rd</sup> December 2019

## CERTIFICATE

This is to certify that **Ms. Gayathri K R** student of **Baselius College Kottayam** has successfully completed her Project work titled "**Quality assessment study of Motor Spirit by adding Heavy Naphtha**" at Bharat Petroleum Corporation Limited-Kochi Refinery from 06.05.2019 to 17.05.2019. She has shown enthusiasm in learning and involved herself during the period of Project work. She has submitted a detailed report which is found to be Good.

We at Bharat Petroleum Corporation Limited-Kochi Refinery wish her the best and success in her life and career.

Rafiha Khan  
Chief Manager L&D, KR

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## CERTIFICATE

This is to certify that this internship work entitled "PREPARATION OF IRON OXIDE PIGMENT FROM EFFLUENT" is carried out by RAJILA A K, Reg no: 180011010230 under the guidance of Dr J. PUSHPARAJAN, Deputy Manager R&D, Travancore Titanium Product Limited, Thiruvananthapuram in partial fulfillment of requirement of the degree Master of Science in Chemistry at Baselius College, Kottayam .

Place:

Project Supervisor,

Date:

Dr. J. Pushparajan

## CERTIFICATE

This is to certify that the thesis entitled "SYNTHESIS OF ZINC TETRANAPHTHYL PORPHYRIN AND ITS OPTICAL STUDIES" submitted by THOMAS P THOMAS in partial fulfilment of the requirements for the degree of Master of Science in Chemistry, to the Cochin University of Science and Technology, Kochi-22, is an authentic record of the original work carried out by her under my guidance and supervision. The results embodied in this thesis, in full or in part, have not been submitted for the award of any other degree.

Kochi 22  
11.03.2020

Dr. Leena R  
(Supervising Guide)



**Kerala State Drugs & Pharmaceuticals Ltd.**  
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Website: www.ksdp.ltd.in

KSDP/PRS/PT.42/2020/ 157

06/06/2020

**CERTIFICATE**

This is to certify that Ms. Asha V Tom, MSC Chemistry student of Baselius College, Kottayam has undergone a project on the topic "Formulation, Evaluation and Pharmacokinetics of Metformin Hydrochloride Tablet IP 500 mg " in the company from 06.05.2019 to 20.05.2019.

Manager (Personnel & Administration)



MANAGER - P & A  
K. S. D. P. Ltd.  
Alappuzha - 688 522



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Website: www.ksdp.com

KSDP/PRS/PT.42/2020/ 158

06/06/2020

**CERTIFICATE**

This is to certify that Ms. Litty Jose, MSC Chemistry student of Baselius College, Kottayam has undergone a project on the topic "Formulation, Evaluation and Pharmacokinetics of Amoxicillin Capsule IP 500 mg" in the company from 06.05.2019 to 20.05.2019.

Manager (Personnel & Administration)



MANAGER - P & A  
K.S.D.P. Ltd.  
Alappuzha - 688 522



## CERTIFICATE

This is to certify that the project work entitled 'Effect of precipitated calcium carbonate on hardness and elongation at break of strap compound' is an authentic work carried out by Mr. Mefin Sabu, Reg No: 180011010229, under the guidance of Mr. SONY CHERIYAN for the partial fulfillment for award of degree of Master of Science in Chemistry from Mahatma Gandhi University, Kottayam. The work presented in this report has not been submitted for any other degree or diploma earlier.



Mr. SONY CHERIYAN

(Supervisor, RUBCO Koothuparamba)



# J. J. Murphy Research Centre

(A NABL ISO/IEC 17025:2017 Accredited Laboratory)

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Website: [www.rubberparkindia.org](http://www.rubberparkindia.org)

RP/R/PR/ 14356

07.07.2020

## CERTIFICATE

Certified that this project report titled "SYNTHESIS OF NANO SILICA FROM BAMBOO LEAVES AND ITS APPLICATION IN NATURAL RUBBER" is the bonafide work of Miss. TREESA JOHNY (Register No.180011010238) who carried out the project under my supervision. Certified further, that to the best of my knowledge the work reported herein does not form part of any other project report or dissertation on the basis of which a degree or award was conferred on an earlier occasion on this or any other candidate.

Supervising guide

  
07/07/2020

External: Mr. DILEEP P.



ASST. DIRECTOR  
J J MURPHY RESEARCH CENTRE  
RUBBER PARK INDIA (P) LTD.  
ERNAKULAM - 683 556



**THE TRAVANCORE CEMENTS LIMITED**  
(A GOVT. OF KERALA UNDERTAKING)



June 10 2020

PD/005

**TO WHOMSOEVER IT MAY CONCERN**

This is to certify that Mr. Tom Babu, M.Sc (Chemistry) Student, Department of Chemistry, Baselius College, Kottayam had undergone a project work on "Chemical Analysis And Comparative Study of Different Brands Of Cements" in our Company during the period from 06.05.2019 to 11.05.2019 as part of his curriculum.

During this period he had shown keen interest in learning various aspects connected with his academic requirement and was found obedient as well as industrious.

Yours faithfully,

**FOR THE TRAVANCORE CEMENTS LTD.,**

*Sujal*  
Deputy Manager (P&A).



## DECLARATION

I hereby declare that the work entitled "PREPARATION AND CHARACTERISATION OF LITHIUM METATITANATE ( $\text{Li}_2\text{TiO}_3$ ) BY HYDROTHERMAL PROCESS" submitted to the Mahatma Gandhi University for the partial fulfillment of the requirement for the Degree of Master of Science in Chemistry is an authentic record of the project work carried out by me under the supervision and guidance of Dr. J. Johnson DGM (QM & RD) Travancore Titanium Products Ltd, Kochuveli , Trivandrum .The results embodied in this project have not been submitted to any other institute for the award as fulfillment of the requirement of a course of study.

Place: KOTTAYAM

Date:

SHARON SHAJI

PRN: 180011010231



1415: Trng: P- 4028

23<sup>rd</sup> December 2019

## CERTIFICATE

This is to certify that **Mr. Akshay T Jacob** student of **Baselius College Kottayam** has successfully completed his Project work titled "**Effect of addition of heavy Naphtha from vacuum gas oil on Aviation Turbine Fuel**" at Bharat Petroleum Corporation Limited-Kochi Refinery from 06.05.2019 to 17.05.2019 and submitted report. He has shown enthusiasm in learning and involved himself during the period of training.

We at Bharat Petroleum Corporation Limited-Kochi Refinery wish him the best and success in his life and career.

Rafiha Khan  
Chief Manager L&D, KR



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Prof. (Dr.) Nandakumar Kalarikkal  
Hon: Director

07<sup>th</sup> July 2020  
07/IIUCNN/2020-21

### CERTIFICATE

This is to certify that the dissertation entitled "SYNTHESIS AND CHARACTERISATION OF SPINEL NICKEL FERRITE NANOPARTICLES USING UV VISIBLE SPECTROSCOPY" is an authentic record of project work carried out by Ms. SHILPA BIJU (PRN: 180011010232) under my supervision in partial fulfilment of the requirements for the degree of Master of Science in Chemistry during 2018-2020, and further that no part thereof has been presented before any other degree.

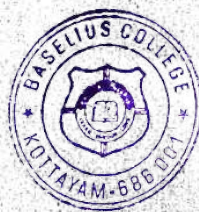


*[Handwritten Signature]*

Prof. Dr. Nandakumar Kalarikkal

DIRECTOR

International & Inter University Centre  
for Nanoscience and Nanotechnology



*[Handwritten Signature]*

Dr. BIJU THOMAS  
PRINCIPAL  
BASELIUS COLLEGE  
KOTTAYAM