



Government Victoria College Palakkad

Workshops/seminars conducted on
Research Methodology, Intellectual
Property Rights (IPR) and
entrepreneurship

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AADIVASI SAHITYA IN HINDI AND MALAYALAM

REPORT: Dept of Hindi, Govt. Victoria College, Palakkad conducted a two day National Seminar on 3rd and 4th of December 2015 on the topic AADIVASI SAHITYA IN HINDI AND MALAYALAM. Dr. Bagwan.N.Gawahde (HOD of Dr. Baba Saheb Marathwada University Auragabad) was the chief guest of this seminar. Teachers from different colleges participated in this seminar. Research Scholars and teachers presented papers in this seminar. The seminar ended on 4th of December 2015.

TITLE: **BRIEFING FROM THE FRINGES: NARRATING SELF**

The seminar attempted to render visibility to the discourses from the fringes to the central stage and to confer about the emerging perspectives in literatures from the margin. Marginalized discourses utter languages/voices that often get appropriated by the reigning discursive hegemonies and are therefore also counter discursive. The narrating- self in the post modern world situates itself at the margin where its terms and conditions are dictated by global perspective of the media and the market. For the consumerist market, voices are the big data that supplies its economy. When authenticity of the voices are determined by market processes, the institutionalization of narrative voices from the fringes become an important political act.

Self-Narration has a history that arches back to the antiquity in Western knowledge. The desire for self expression is deeply entwined with human self-constitution. Though, autobiography as a genre emerged as a significant byproduct of Christian confessional practices, the socio cultural space created by institutionalised literature helped to strengthen the power of the narrative voice. Be it Ars Didactica, Seneca's hypomnemata or St Augustin's Confessions, the archival role that self-narrations play in collective ethical conscience is indelible. When the concept of 'self' itself was renegotiated as an ideological construct in 20th century psycho-analysis, post structuralism and new historicism, self-narration became even more problematic. "What I write about myself is not the last word" warns Barthes in his *Roland Barthes by Roland Barthes* (1977).

Self-narratives/autobiographies of the marginalized have transformed texts into a vibrant space. These self-narratives about many unheard and unimaginable experiences of hurt and humiliation challenge the hegemonic caste structure and gendered oppression. Autobiographies of the marginalized are often viewed as a form of 'political strategy'. But in truth they speak for and beyond the individual. To illustrate, Dalit autobiographies are studied today as sociographies because they voice 'history of Dalit oppression'. Baby Kamble in her autobiography states, "This performance is not an individual act but is collected in nature: I wrote about what my community experienced".

This seminar attempted to shed some light into the literary space generated when private, silenced, smothered voices get articulated in public domain.

Two Day National seminar on Communal Consciousness, Identities and Politics

October 28-19, 2015

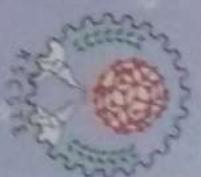
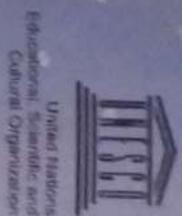
A two Day national seminar was held on October 28-29, 2015. The co-ordinator of the seminar was Dr Aneesudheen P K. The programme was inaugurated by Principal Dr T N Sarasu. Leading scholars spoke on various themes connected to the topic.



Vidyavijayam Press 9446237819

2015

**INTERNATIONAL YEAR OF LIGHT AND LIGHT
BASED TECHNOLOGIES**



**District Level Participation of students and staff
as part of celebrations**

Seminar, Essay Competition And Quiz Competition

**Date :- 10th November 2015
In Honour of Sir C V Raman**

**Venue :- College Auditorium,
Govt. Victoria College, Palakkad**

Organized by

**KERALA STATE COUNCIL
FOR SCIENCE TECHNOLOGY
AND ENVIRONMENT**

**PHYSICS DEPARTMENT
GOVT.VICTORIA COLLEGE
PALAKKAD**

"INNOVATIONS IN LITERARY GENRES

WITH SPECIAL REFERENCE TO MALAYALAM LITERATURE"

BY THE DEPARTMENT OF MALAYALAM,
GOVT. VICTORIA COLLEGE, PALAKKAD
(November 29, 30 - 2016)

എഴുത്തിന്റെ പുതുവഴികൾ

ദിദിനദേശീയസെമിനാർ

എഴുത്തിന്റെയും വായനയുടെയും ലോകത്ത് 'സാഹിത്യം' എന്നും 'സാഹിത്യേതരം' എന്നുമുള്ള വേർതിരിവുകൾ വളരെ നേർത്തുവരുന്ന ഒരവസ്ഥ ഇന്നു ലോകമെമ്പാടും പ്രത്യക്ഷപ്പെടുന്നുണ്ട്.

പരമ്പരാഗതസാഹിത്യരൂപങ്ങൾക്കു പുറത്ത് സ്വാഭാവികമായും രൂപപ്പെട്ടുവരുന്ന എഴുത്തിന്റെ പുതിയ കൈവഴികളെ അഭിസംബോധന ചെയ്യാതെ സാഹിത്യപഠനം പൂർണ്ണമാവുകയില്ല. മലയാളത്തിൽത്തന്നെ ജീവിതമെഴുത്ത്, പാട്ടെഴുത്ത്, ശാസ്ത്രമെഴുത്ത്, മണലെഴുത്ത്, കേട്ടെഴുത്ത് ആത്മകഥനങ്ങൾ, ഫോട്ടോ എഴുത്ത്, വിമതരചനകൾ തുടങ്ങി ഒട്ടേറെ കൈവഴികൾ ശക്തവും സർഗ്ഗാത്മകവുമായി ഇന്ന് സാന്നിധ്യമറിയിക്കുന്നുണ്ട്. ഈ നവീനപ്രതിഭാസത്തിന്റെ നേരനുഭവങ്ങൾ പങ്കുവയ്ക്കാനായി, പുതുശാഖകളിലെ മുഴുവൻ എഴുത്തുകാരുടെയും ഒരപൂർവ്വസംഗമത്തിന് ഗവ. വിക്ടോറിയ കോളേജ് മലയാളവിഭാഗം 2016

നവംബർ 29, 30 തീയതികളിൽ കോളേജ് വിദ്യാഭ്യാസവകുപ്പിന്റെ ധനസഹായത്തോടെ അരങ്ങൊരുക്കി.

ഉദ്ഘാടനം : ശ്രീ. വി.കെ. ശ്രീരാമൻ

അവതരണം ഒന്ന് :

ബദൽ ജീവിതം, ബദൽ സാഹിത്യം :

ശ്രീ. വി.കെ. ശ്രീരാമൻ

അവതരണം രണ്ട് :

ഫോട്ടോഗ്രാഫിയുടെ സാഹിത്യ സാധ്യതകൾ :

റവ. ഫാദർ പത്രോസ് ഓ.ഐ.സി.

അവതരണം മൂന്ന് :

രൂപമൂലികവാദം മലയാളസാഹിത്യത്തിൽ :

ശ്രീ. വി. മുസഫർ അഹമ്മദ്

അവതരണം നാല് :

ശാസ്ത്രമെഴുത്തിലെ സർഗ്ഗാത്മകസാധ്യതകൾ :

ശ്രീ. ജീവൻ ജോബ് തോമസ്

അവതരണം അഞ്ച് :

മലയാളത്തിലെ ജീവിതമെഴുത്ത് : ഭാഷയും ഉള്ളടക്കവും

ശ്രീ. താഹ മാടായി

അവതരണം ആറ് :

വന്യജീവിത ഛായാഗ്രഹണവും ധാർമ്മികതയും

ശ്രീ. എൻ. എ. നസീർ

അവതരണം ഏഴ് :

പുതിയ വായനക്കാർ, പുതിയ രചന

ശ്രീ. ജി. ആർ. ഇന്ദുഗോപൻ

അവതരണം എട്ട് :

വിമത എഴുത്തും വിമതരുടെ എഴുത്തും:

ഡോ. രേഷ്മ ഭരദാജ്

അവതരണം ഒമ്പത് :

കാഴ്ചയിലെ എഴുത്തും എഴുത്തിലെ കാഴ്ചയും

ഡോ. ടി. ജിതേഷ്











Three Day National Seminar Sponsored By University Grants Commission

Multiple Lives of Malayali: Literature, Culture and Society

28, 29, 30 September 2015

Department of Malayalam, Govt. Victoria College, Palakkad

Seminar Coordinator: Dr. T. Sreevalsan

This seminar aimed to portray the Multiple lives of Malayalis in our current scenario. Three day seminar analysed Both social and Cultural aspects of Literature by eminent scholars from various fields of Arts and Literature. The seminar was inaugurated by Eminent Tamil Malayalam Writer Sri. Jayamohan. Other scholars include Dr. Sunil P Elayidom, Dr. P. Pavithran, Dr. P.M.Girish, Dr. T. Githesh, Dr. Lal Mohan, Dr. Pradeepan Pambirikkunnu, Dr. H.K. Santhosh, Smt. E.K.Sheeba, and Researches from many universities. Total number of participants were above 100. The seminar was sponsored by University Grants Commission, New Delhi.





REPORT OF THE NATIONAL SEMINAR “RECENT ADVANCES OF STATISTICS IN MEDICAL FIELD”

on 23 November 2015, sponsored by Directorate of collegiate education, Govt. of Kerala

Department of Statistics

Govt Victoria College, Palakkad

Post graduate department of Statistics, Government Victoria College, Palakkad organized a two day national seminar on “RECENT ADVANCES OF STATISTICS IN MEDICAL FIELD” on 23 November 2015, sponsored by Directorate of collegiate education, Govt. of Kerala as per the order No.P1/17214/2015/DCE dated 20/07/2015.

Medical Statistics plays an essential role in all stages of a qualitative health care sector. There has been a significant development in different areas of Statistics and are now being applied to Medical field. This seminar encompasses the methodology and theory of Statistics as applied to problems in the life and health services. It will bring interaction between young researchers from different disciplines of Statistics with eminent persons in these areas. The programme was inaugurated by Principal Dr T N Sarasu followed by felicitations by IQAC coordinator and head of the department. The academic sessions then started by the plenary talk by Professor P G Sankaran, department of statistics, Cochin university of science and technology. He described the essential concepts used in medical statistics especially about the survival analysis. The talk was very informative and the participants were very much interested in the tools of survival analysis applied in medical statistics. After the plenary talk, Dr V N Sreeja introduced the literature review on the topic statistics in medicine. She shed some light about the hidden role of statistics in the field of medicine. Many of the participants were listening to this points very interestingly. The afternoon session started by Dr Jilesh V, Assistant professor, Govt. Arts and science college, Kozhikkode, by demonstrating the practical way of implementing the statistical theory in the field of medicine using popular statistical software SPSS. Needless to say, the whole session was a great experience for the participants as far as the hands on training was concerned.

The second day of the seminar opened a new window to the participants to the world of multivariate techniques used in medical statistics. Professor S M Sunoj of CUSAT delivered the excellent talk about the multivariate aspect of the medical data analysis. He beautifully pictured the multi dimensional tools available in the context of medical statistics and their importance. The next session in the morning was led by Dr Haritha N Haridas, Assistant Professor, Farook College. She has portrayed the beauty of the open software R to analyse the medical data. The last session was engaged by Professor N Raju from University of Calicut. He explained the much used popular tool of logistic regression applied in the medical field. The participants were active and raised some valuable questions about the applicability of the tool. The classification problem using the logistic regression analysis was described by Professor Raju.

After the session, the valedictory function was called. Program co coordinator Ravikumar delivered the vote of thanks. The participants were asked to fill the feedback form.

| | | |
|--|---|--|
| <p style="text-align: center;">ABOUT US</p> <p>Government Victoria College is located in the heart of Palakkad Town. This institution was started in the year 1866 as Rate School and became a Govt. High School in 1877. In 1888 the high school was raised to the rank of Second Grade College and was affiliated to the University of Madras. Currently, the college is affiliated to University of Calicut with 16 UG course and 10 PG courses in Arts and Science subjects and is recognized as a Centre of Excellence by Govt. of Kerala. The college is re-accredited with "A" Grade by NAAC. It is spread over a campus of 25 acres with a number of heritage buildings. The clock tower, the popular college maidan with its Victorian giant tree and the towering Sri.M.Krishnan Nair Gate, are just a few major attractions of this College.</p> <p>The department of Statistics was established in 1957. It offers PG course in statistics and offers complementary courses in various disciplines. Several of its alumni are well placed in government as well as in private sectors. The department is providing consultancy services in statistical data analysis, statistical software training and clarification of statistical concepts. The department was successful in the value addition of students in transforming them to the knowledge assets of the society.</p> | <p style="text-align: center;">Registration Form</p> <p style="text-align: center;">DCE Sponsored National Seminar on STATISTICS IN MEDICAL SCIENCE 2015 November 23-24</p> <p>Name of the Participant:</p> <p>Gender:.....</p> <p>College/Institution:.....</p> <p>Designation:.....</p> <p>Contact Address:.....</p> <p>Mobile/Phone No :</p> <p>Email Id:.....</p> <p>Areas of Interest:.....</p> <p>Accommodation required: Yes/No</p> <p>Signature of Applicant:</p> <p>Place:</p> <p>Date:</p> <p>Your participation may please be intimated to:</p> <p style="text-align: center;">Sri. Ravikumar K., +919495013289 Email Id: statistics@victoriacollege.in</p> | <p style="text-align: center;">NATIONAL SEMINAR ON RECENT ADVANCES OF STATISTICS IN MEDICAL FIELD November 23-24, 2015</p>  <p style="text-align: center;">Venue: Seminar Hall (Chemistry Block) Govt. Victoria College, Palakkad</p>  <p style="text-align: center;">Organized by P.G. Department of Statistics, Govt. Victoria College, Palakkad, Kerala-678001</p> <p style="text-align: center;">(Sponsored by Directorate of Collegiate Education, Govt. of Kerala)</p> |
|--|---|--|

Dear Sir/Madam,

We are happy to inform that the Dept. of Statistics, Govt. Victoria college Palakkad is organizing a Two Day National Seminar on "RECENT ADVANCES OF STATISTICS IN MEDICAL FIELD" during 23-24 November, 2015. The seminar is sponsored by the Dept. of Collegiate Education, Govt. of Kerala. The focus of the seminar is on recent developments of Statistics in Medical Sciences. We cordially invite your participation and support for making the programme a grant success.

With warm regards,

Dr. T. N. Sarasu
Principal

Dr. S. S. Maya
HOD

K. Ravikumar
Co-ordinator

OBJECTIVE OF THE SEMINAR

Medical Statistics plays an essential role in all stages of a qualitative health care sector. There has been a significant development in different areas of Statistics and are now being applied to Medical field.

This seminar encompasses the methodology and theory of Statistics as applied to problems in the life and health services. It will bring interaction between young researchers from different disciplines of Statistics with eminent persons in these areas.

Resource Persons

1. **Dr. P.G. Sankaran**
Professor & Head
Department of Statistics
Cochin University of Science & Technology, Cochin.
2. **Dr. V.N. Sreeja**
Assistant Professor
Department of Statistics
Sree Krishna college, Guruvayoor.
3. **Dr. Jilesh V.**
Assistant Professor
Department of Statistics
Govt. Arts & Science College,
Meenchanda,
4. **Dr. S.M.Sunoj**
Professor
Department of Statistics
Cochin University of Science & Technology, Cochin
5. **Dr. Haritha N.Haridas**
Assistant Professor
Department of Statistics
Farook College, Calicut.
6. **Dr. N. Raju**
Professor
Department of Statistics
University of Calicut, Calicut.

PROGRAMME SHEDULE

23/11/2015 (Monday)

Registration: 9.00-9.45 am

Inauguration : **Dr. T. N. Sarasu, Principal**
Govt. Victoria College

Session 1 : 11.00 am-12.30 pm
Dr. P.G. Sankaran
Introduction to Survival - Analysis

Session 2 : 1:30pm-3.00pm
Dr. V.N. Sreeja
Statistics in Medicine

Tea- break: 3.00pm-3.15pm

Session 3 : 3.15pm-4.30pm
Dr. Jilesh V.
Analysis of Medical Data using SPSS

24/11/2015 (Tuesday)

Session 1 : 9.45am-11.15am
Dr. S. M. Sunoj
Use of Multivariate Techniques in Medical Sciences

Tea-break : 11.15am-11.30am

Session 2 : 11.30am-1.00pm
Dr. Haritha. N. Haridas
Survival Analysis in R

Lunch-break : 1.00pm-2.00pm

Session 3 : 2.00pm-3.15pm
Dr. N. Raju
Logistic Regression-A technique of Medical Statistics

Tea-break : 3.15pm-3.30pm
Session 3 continues

Valedictory Function







**REPORT OF THE THREE-DAY NATIONAL SEMINAR ON
FUNCTIONAL ANALYSIS
OCTOBER 28--30, 2015.**

The department of collegiate education sanctioned a Three-day national seminar to the Department of Mathematics, Government Victoria College Palakkad under the faculty development (plan) in response to the request made by the department during 2015-2016 academic year. The letters inviting participation were sent to various institutions across Kerala and neighboring states. Students and teachers from various colleges of the state were participated in the seminar. The Inaugural session was presided over by the respected Principal Dr.T N Sarasu and Prof.A Vijayakumar, CUSAT, Kochi inaugurated the seminar. The talks were very informative and interactive. As per the feedback collected from the participants the seminar was rated as excellent in its quality of talks topics covered and the local hospitality provided.

Schedule of the seminar is the following.

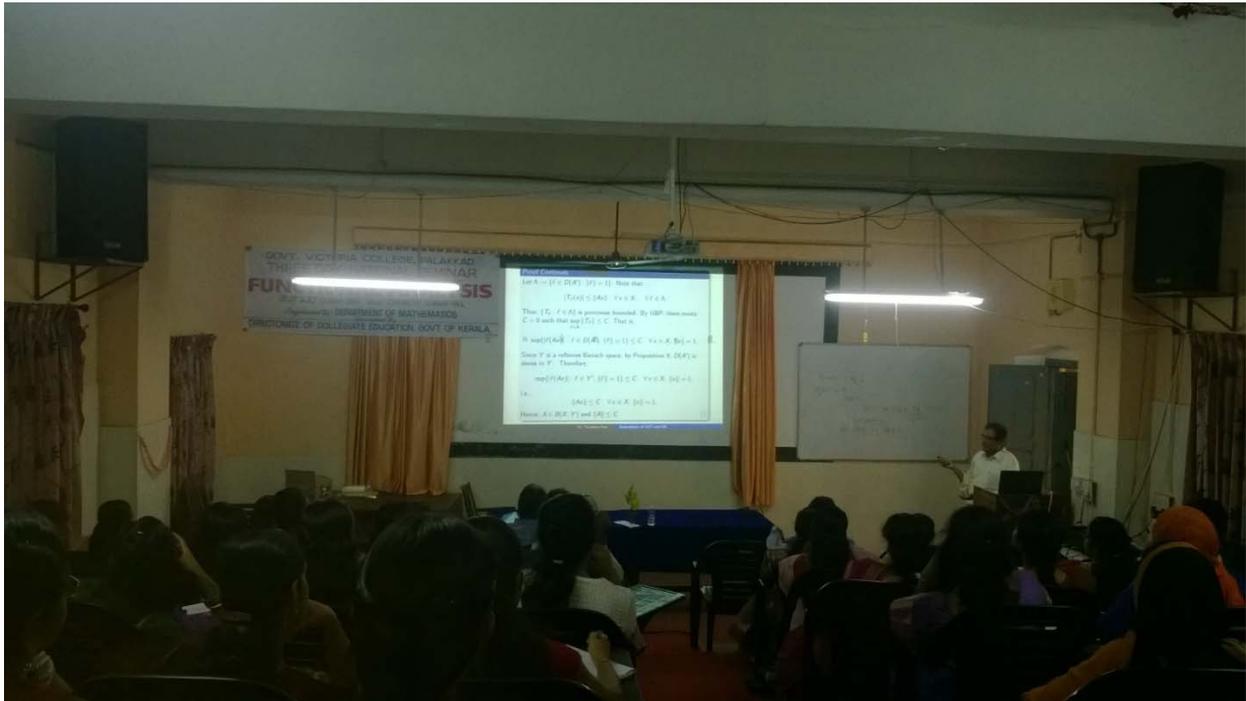
THREE-DAY NATIONAL SEMINAR ON OPERATORS AND MATRICES

Registration: October-28, 8.30-9.00 AM

Inauguration: 9.00 AM

| TIME DATE | 9.30AM - 11.00 AM | 11.15 AM - 12.45 PM | 1.30PM - 3.00 PM | 3.15 PM - 4.45 PM |
|-------------------|--|--|--|--|
| 28-10-2015 | <p>Prof.A.Vijayakumar</p> <p>Challaenges and excitements in Mathematics</p> | <p>Prof. M N Narayanan Namboothiri</p> <p>Toeplitz Matrices and Operators</p> | <p>Prof. K Parthasarathy</p> <p>Frame Theory/ Hilbert space Operators/ Spectral Theorem</p> | <p>Prof. K Parthasarathy</p> <p>Frame Theory/ Hilbert space Operators/ Spectral Theorem</p> |
| 29-10-2015 | <p>Prof. K Parthasarathy</p> <p>Frame Theory/ Hilbert space Operators/ Spectral Theorem</p> | <p>Dr. K Ali Akbar</p> <p>The Horseshoe Map</p> | <p>Dr. K Ali Akbar</p> <p>The Horseshoe Map</p> | <p>Prof. K Parthasarathy</p> <p>Frame Theory/ Hilbert space Operators/ Spectral Theorem</p> |
| 30-10-2015 | <p>Prof. M Thmpan Nair</p> <p>Equivalence of Closed Graph Theorem and Uniform Boundedness Principle</p> | <p>Dr. Mubeena T C</p> <p>Twisted Conjugacy Problem</p> | <p>Dr.Santhosh George</p> <p>Seperation Theorems and Locally Convex Vector Spaces</p> | <p>Dr.Santhosh George</p> <p>Seperation Theorems and Locally Convex Vector Spaces</p> |





GOVT. VICTORIA COLLEGE, BALAKRISHNAPURAM
THE 10th INTERNATIONAL SEMINAR
FUN IN MATHEMATICS
DEPARTMENT OF MATHEMATICS
GOVERNMENT OF KERALA
DIRECTORATE OF HIGHER EDUCATION, GOVT OF KERALA

Let $X = (X_1, X_2, \dots, X_n)^T$. Show that
$$(X_1 + X_2, \dots, X_{n-1} + X_n)^T \in \text{span}\{X_1, X_2, \dots, X_n\}$$

Then, $\{X_1, X_2, \dots, X_n\}$ is a minimal spanning set. By UBT, show that
 $C = \text{span}\{X_1, X_2, \dots, X_n\}$. Then,
$$C = \text{span}\{X_1 + X_2, X_2 + X_3, \dots, X_{n-1} + X_n\}$$

Since V is a reflexive Banach space, by Proposition 3, $C \cap C^\perp = \{0\}$.
Therefore,
$$\text{span}\{X_1 + X_2, X_2 + X_3, \dots, X_{n-1} + X_n\} \cap C^\perp = \{0\}$$

Hence, $\text{span}\{X_1 + X_2, X_2 + X_3, \dots, X_{n-1} + X_n\}$ and C^\perp are orthogonal.

Programme

Programme

Day 2 25.11.2015

Technical Session IV
Innovative approaches in
molecular biological
experiment

9.30 AM -11.00 AM

Dr. Radhakrishna Pillai

Dept of Life Science, Uiy of Calicut
(Pre, SDS-PAGE, Gel Scanning UV, Visual, IR Spectro photometer, Lamellar Flow etc..)

Technical Session V
Demonstration

11.30 AM-1.00 M

Separation Techniques

Dr. Haridas, V HOD Zoology

SNGS College Pattambi

Syamdas

Research scholar Dept of Biochemistry,
University of Kerala & Guest Lecturer,
PMSA PTM College, Kadakkal

Lunch Break

Technical Session VI
Quantitative Techniques
Demonstration

1.30 P M - 3.00 P M

Sri. Shanthil

Asst Professor Chemistry,

Govt Victoria College

Aneesha

Research Assistant Dept Of
Zoology, Govt Victoria College
3.00 P M- 4.30 P M

Technical Session VII
Microbiological Techniques
Demonstration

Dr. Biju, C.P

Asst Professor Zoology,

Merry College, Palakkad

Jennifer (Research Scholar)

Technical Assistance

Day 3 26.11.2015

Technical Session VIII
Welcome and
Introducing the Guest

9.30 AM -11.00 AM

Shihabudeen, A.S

Asst Professor Zoology

KKTM College Pulloot, Kodungalor

Dr. Nishi

HOD Zoology SN College, Alathur

Data Analysis

Dr. Biju, K Asst professor,

Regional Institute of Education Mysore

Syama, S Guest Lecturer,

Dept of Zoology,
Govt Victoria College, Palakkad

Vote of thanks

Invited lecture

Chair of the session

Technical Session IX
Statistical packages
Demonstration

11.30 AM-1.00 PM

Dr. Biju, K

Asst professor, Regional Institute of

Education Mysore

Ranjini, s

Guest Lecturer, Dept of Zoology,
Govt Victoria College

Technical assistance

Lunch Break
Technical Session X

1.30 PM-3.00 PM

Consolidation and

compendium Preparation

Dr. C. V. Sreeranjitkumar

HOD Zoology

Dr. K. A. Rasheed,

Workshop Co ordinator

Chair of the session

Moderator

Valedictory session

Welcome speech

Presidential address

Valedictory address

Report presentation

Concluding remarks

Vote of thanks

Smt. Bindu, K

Dr. C. V. Sreeranjitkumar,

HOD Zoology

Dr. T. N. Sarasu, Principal,

Govt Victoria College, Palakkad

Smt. Shilina, K

Dr. K. A. Rasheed

Smt. Beena, S. John

National Anthem

Dr. C. V. Sreeranjitkumar,
HOD Zoology
Mob : 9249425095

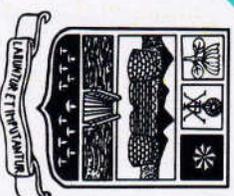
Dr. K. A. Rasheed
Co-Ordinator
Mob : 9447628709

email : zoology@victoriacollege.in



National Workshop on Methodology of Biological Research

November 24-26, 2015
at Seminar Hall Govt Victoria College,
Palakkad



Organised by
Post Graduate & Research Department
of Zoology
Govt. Victoria College,
Palakkad

Sponsored by:
Collegiate Education Department
Govt. of Kerala

कालिदास. सभा

DEPARTMENT OF SANSKRIT

THREE DAY NATIONAL WORKSHOP ON NLP

27-10-2015 TO 29-10-2015

at Kalidasa Hall, Govt. Victoria College, Palakkad.

Sponsored By: **DCE**



“OPTIKA-2015”
National Seminar on
“Light and light based technologies”
December 3 & 4, 2015

Seminar Report

Department of Physics, Govt. Victoria College, Palakkad, organised a two day national seminar “OPTIKA-2015” on “Light and light based technologies” on 03-12-2015 & 04-12-2015 at College Chemistry Seminar hall, with the financial support from the Directorate of Collegiate Education, Govt. of Kerala. The International Year of Light and light based technologies ,2015(IYL 2015) is "a global initiative adopted by the United Nations to raise awareness of how optical technologies promote sustainable development and provide solutions to worldwide challenges in energy, education, agriculture, communications and health. Light plays a vital role in our daily lives and is an imperative cross-cutting discipline of science in the 21st century. IYL 2015 also aims in celebrating noteworthy anniversaries in 2015—from the first studies of optics 1,000 years ago to discoveries in optical communications that power the Internet today. To be a part of this global initiative the Department had decided to conduct a national seminar in commemoration of International Year of Light.

Seminar was inaugurated by Prof. Valsakumar M.C from Indian Institute of Technology Palakkad. Shri. O.K. Ramesan, Head of the Department of Physics, welcomed the resource persons and participants. The principal Dr. T.N. Sarasu presided over the function. The IQAC co-ordinator Dr Sreeranjith Kumar and representing the Department of Chemistry Dr. Padmakumar.K offered felicitations.





The Inaugural Session by Prof. Valsakumar M.C on “Entangled light and it’s applications”

30 teachers (18 from other colleges) and more than 50 PG students(27 from other colleges) and 35 UG students attended the seminar.

The inaugural session was taken by Prof. Valsakumar M.C from IIT, Palakkad. The first session dealt with the theory of entangled light. The talk started with the explanation of the concept of entangled light and how measurements of physical properties such as position, momentum ,spin etc. performed on entangled particles were found to be appropriately correlated. The next session dealt with the applications of entangled light. Among the best-known applications of entanglement discussed were superdense coding and quantum teleportation. Also the need of entanglement to realize quantum computing, quantum cryptography ,Interferometric applications etc were discussed. The two sessions of 90 minutes duration was concluded by about 12.45 pm and lunch was provided to all the participants.

The afternoon session of 1.30 to 3.00 pm was taken by Dr.Saji K.J,Assistant Professor of Physics,Govt.Victoria College.The talk dealt with “Two dimensional materials for Optoelectronic Applications” These novel materials that’s just a few atoms thick can be used to create devices that can harness or emit light. According to the resource person this proof-of-concept could lead to ultrathin, lightweight, and flexible photovoltaic cells, light emitting diodes (LEDs), and other optoelectronic devices.



Dr.Saji K.J delivering the talk on “Two dimensional material for Optoelectronic Applications”

Dr. Pradeesh. K ,Assistant Professor of Physics, from Govt.Victoria College, Palakkad took the next session that is the fourth session of the day from 3.00 to 4.30 pm.The lecture was on the topic “Semiconductor : Physics and Optoelectronic Devices “ .The basic theory for semiconductor based Optoelectronic devices was discussed in this session.



Dr.Pradeesh.K delivering the talk on “Semiconductor:Physics and Optoelectronic Devices”

After the Question Answer session the afternoon session concluded by 4.45 pm.

On 4/12/15 the morning session started at 9.30 am with the talk from Dr.Anith Nelleri,Associate Professor School of Electronics Engineering,VIT University, Chennai Campus.The talk was on “Methods of Digital Holography”.The history of holography , the acquisition and processing of holograms with a digital sensor array, typically a CCD camera or a similar device, Image rendering, and reconstruction of object data etc were elaborately discussed in this session.

In the next session from 11 am to 12.30 pm Dr.Anith Nelleri spoke on the applications of Digital Holography. According to the speaker the applications of digital holography are based on CCD-recording, computer storage, and numerical reconstruction of the wavefields, and on the other hand on numerical calculation of computer generated holograms (CGH) and the transfer of these CGHs to spatial light modulators (SLM) for optical reconstruction of the wave fields. The first mentioned type of digital holography finds applications in digital holographic microscopy, particle analysis, and interferometric form and deformation measurement, while the second type constitutes the basis for holographic 3D TV. The space-bandwidth-problem occurring in this context was addressed and first partial solutions were presented.





Dr. Anith Nelleri giving the talk on “Methods of Digital Holography and its applications”

The afternoon session was handled by Dr. Dr. R. Prasanth, Assistant Professor, Centre for Green Energy Technology, Madanjeet School of Green Energy Technologies, Pondicherry University. The talk “What light does with nanomaterials” interlinked the areas of photonics and nano technology. Dr. R. Prasanth also took the last and the eighth session of the two day seminar so that more interesting physical phenomena could be explained on light and nano materials.



Dr. R. Prasanth delivering the talk on “What light does with nanomaterials”

The seminar concluded with the valedictory session from 4.30 pm to 5.00 pm.

A three day national workshop on Recent trends in Indian Financial Market has been organised by the department on 18th, 19th, and 20th November coordinated by Smt.Sreevidya P V, Asst.Professor of Commerce. PG students from the college, faculties from other colleges etc. participated. The Principal inaugurated the workshop. There were sessions by Dr. Saji, Dr. Subha, Mr. Aneesh etc. There were interactive sessions and many paper presentations.



NATIONAL WORKSHOP
RECENT TRENDS IN INDIAN

(18th, 19th and 20th Nov)

Organised by

P G DEPARTMENT OF

Govt. Victoria College

Sponsored by

DIRECTOR OF **THE EDUCATION**

Venue: **DEPARTMENT OF**







NATIONAL SEMINAR ON
TRANSCREATION LITERATURE IN TAMIL

12-11-2015 TO 13-11-2015

DEPARTMENT OF TAMIL
GOVT. VICTORIA COLLEGE, PALAKKAD - 678 001



Certificate

This is to Certify that Dr./ Prof./ Sri..... Salma Maha Jabeen T.M.
..... Co-ordinator..... has attended the
Two-Day National Seminar on 12th & 13th November 2015. Organised by the Department of Tamil,
Govt. Victoria College, Palakkad assisted by the Govt. of Kerala.

He/ She has presented a paper / Lecture on.....




Dr. T.N. Sarasu
Principal
GOVT. VICTORIA COLLEGE
PALAKKAD


Salma Maha Jabeen, T.M
Co-ordinator
GVC Palakkad

Dr. S. Sai Sree Regha
HOD of Tamil Department
GVC Palakkad

DEPARTMENTS OF ECONOMICS GOVT.VICTORIA COLLEGE, PALAKKAD

Report of seminar organised on 12-13, November 2015

The Department of Economics Govt. Victoria College, Palakkad organised Two Day National Seminar on “Transition to Knowledge Economy-Prospects for India” on 12th and 13th November, 2015 with the financial assistance of Department of Collegiate Education, Govt of Kerala. Ms. Vijaya K M co-ordinated the programme.

Dr, K P Mani, Professor and Head of the Department of Economics, University of Calicut inaugurated the seminar

The technical sessions:

- Knowledge in Economic Growth Theory - Dr. M Parameswaran (Associate Professor, Centre for Development Studies, Trivandrum)
- Knowledge Management and Quintessence for Enhanced Productivity - Dr. P J Christabelle (Assistant Professor, Dept. of Futures Studies, University of Kerala, Trivandrum)
- Role of Knowledge Management in Transforming India into a Knowledge Economy - Dr. Chacko Jose P, (Associate Professor, Department of Economics, Sacred Heart's College, Chalakkudy)
- Engendering the Knowledge Society: Perspectives and the Prospects in the Indian Context – Dr. C Krishnan (Associate Professor, Department of Economics, Govt. College, Kodenchery)
- Moving Towards a Knowledge Economy- Opportunities and Challenges for India : Dr. T J Joseph, (Asst. Professor, Central University of Kerala, Kasaragode)
- Paper Presentations
- Chair: Dr. Maya C Pillai (Assistant Professor, Department of Economics, NSS College, Ottappalam)



Report on three day National Workshop on “Western Ghats Biogeography: Challenges in conservation - 3-5th December 2015

The Great Escarpment of India, the Western Ghats, World Heritage Site of UNESCO is one of the eight "hottest hotspots" of biological diversity in the world extending from the Satpura in the north to Kanyakumari in south, passing through Goa, Karnataka, Kerala and Tamil Nadu. The mountains intercept the rain-bearing westerly monsoon winds, and are consequently an area of high rainfall, particularly on their western side. The topographic variations and the different microclimatic regions specifically in the Palghat Gap promote mottled diversity favouring the escalation of *ca.* 300 globally threatened species. So, intense acquaintance about this stunning, sole and species rich ecosystem of our country which is already under threat is the need of hour. Abrupt measures to conserve this area from devastation are also important. The workshop was aimed to engender a meticulous awareness on various aspects of this ‘ hottest hotspot of biodiversity’ by bringing scientists and experts from assorted fields and to publicize information to safeguard our prized biodiversity.

We managed to get eminent personalities for each session and all the session including the field trip was refreshing. The seminar has been attended by 16 out station faculty members and 13 research scholars along with 8 faculty members from our institution. The student participation include 12 PG students from St. Mary’s College Thrissur, 2 PG students from SNGS College Pattambi, 24 PG students and few interested UG students from our own institution.

Dr. Easa, Former Director, KFRI, Peechi, Thrissur inaugurated the Workshop on 3/12/2015. Presidential address was given by Hon. Principal Dr. T.N. Sarasu. Dr. C.V. Sreeranjith Kumar (IQAC Co Ordinator), Sri.Ravi Kumar (PTA Secretary) were presented in the inaugural session and extended felicitation in the seminar.

The keynote address in the second session was given by Dr. Easa, Former Director, KFRI, Peechi, Thrissur on the topic “ Western Ghats biogeography, conservation and development”. He explained about the bio geographic distribution of Western Ghats and the reasons for the loss of biodiversity. He also highlighted the conservation challenges in Western Ghats. The third and fourth session in the afternoon was handled by

Pro. E. Kunhikrishnan, Ret. Prof. of Zoology, University College, Trivandrum. He delivered talks on Biodiversity of Western Ghats Endemic and endangered taxa of Western Ghats.

On 4th December 2015 fifth session was handled by Prof. Sathish Gowda, Assistant Professor of Law, Bangalore University on the topic “Environment protection laws, Legal aspects of western Ghat Protection. He explained about the environment legislation in India and the role of non Governmental organization in environmental protection. Sixth session was handled by Dr. T.V. Sajeev on “Western Ghats: Biogeography and Governance structures”. He highlighted the geographic features of western Ghats, conservation methods and climate change experienced by us. Dr. Kishore Kumar, Assistant Professor, Department of Botany, Farook College, Calicut handled the seventh and eight session. He delivered the lectures on Shola forests of Kerala and Rare and Endemic plants in High ranges of Kerala.

On 5th December 2015 a field trip was conducted to Nelliampathy Hills in Western Ghats with resource persons, Dr. Jommy Augustine, Associate Professor and Head Department of Botany, St. Thomas College, Pala, Kottayam., Dr. Rajesh K.P., Assistant Professor, Department of Botany Zamorins Guruvayoorappan College, Calicut., Dr. Manju C Nair, Assistant Professor, Department of Botany, Zamorins Guruvayoorappan College, Calicut. In the field trip participants were given Field Level Training on Identification of Rare, Endangered and threat plants of Western Ghats at Nelliampathy Forest. The resource persons handled the 9th 10th and 11th session with their rich experience in the field of angiosperm taxonomy, Bryology and pteridology. The feedback and valedictory session was conducted in the field itself.

Dr. A.R. Rasmi

Workshop Co ordinator

DEAR SIR/ MADAM

THE DEPT. OF BOTANY, GOVT. VICTORIA COLLEGE, PALAKKAD, HAS IMMENSE PLEASURE IN INVITING YOU TO THE WORKSHOP ON WESTERN GHATS BIOGEOGRAPHY : CHALLENGES IN CONSERVATION, SPONSORED BY COLLEGIATE EDUCATION DEPARTMENT, THIRUVANANTHAPURAM, WHICH WILL BE HELD ON 3RD, 4TH AND 5TH OF NOVEMBER, 2015. YOUR ESTEEMED PRESENCE IS PLEADED WITH.

DR. T. N. SARASU
PRINCIPAL

DR. MAYA C. NAIR
CONVENER & HEAD
DEPT. OF BOTANY

DR. A. R. RASMI
CO-ORDINATOR



PROGRAMME

Day 1 3.12.15
Registration 9.00 am
Inaugural Session 10.00 am
Prayer
Welcome speech : Dr. Maya C Nair
Head, Department of Botany
: Dr. T.N. Sarasu
Principal, Govt. Victoria College
Palakkad
Inaugural address : Dr.P.S. Easa
Former Director, Kerala Forest
Research Institute Peechi, Thrissur
Felicitations :
1. Sri. T.K. Rajan
Vice Principal
2. Dr. C. V. Sreeranjith Kumar
Head, Department of Zoology &
IQAC Co - ordinator
3. Sri. Ravikulmar
PTA Secretary
Vote of thanks : Dr. A.R. Rasmi, Work Shop
Co - ordinator
Tea Break
Technical Session I 11.30 am -1.00 pm
Keynote address : Western Ghats biogeography and
conservation challenges
Dr.P.S. Easa
Former Director, Kerala Forest
Research Institute
Peechi, Thrissur
Lunch Break
Technical Session II 1.30 pm-3.00 pm
Invited lecture : Biodiversity of Western Ghats /
An over view Prof. E. Kunhikrishnan
Ret. Professor of Zoology,
University College, Thiruvananthapuram
Technical Session III 3.00pm-4.30 pm
Invited lecture : Endemic and endangered taxa of
Western Ghats Prof. E. Kunhikrishnan
Ret. Professor of Zoology,
University College, Thiruvananthapuram

Day 2 04.12.15
Technical Session IV 9.30 am-11 am
Invited lecture Environment protection
laws, Legal aspects of Western Ghats
Protection Prof. Sathish Gowda
Assistant Professor of Law,
Bangalore University.

Technical Session V 11.30 am-1.00 pm
Invited lecture Western Ghats
: Biogeography and Governance
structures
Dr. T.V. Sajeev Scientist,
Department Forest Entomology,
Kerala Forest Research Institute,
Peechi, Thrissur

Technical Session VI 1.30 pm-3.00 pm
Invited lecture Shola forests of Kerala
Dr.Kishore Kumar Assistant Professor,
Department of Botany
Farook College, Calicut, Kerala

Technical Session VII 3.00pm-4.30 pm
Invited lecture Rare and Endemic plants in High ranges
of Kerala
Dr.Kishore Kumar
Assistant Professor, Department
of Botany Farook College, Calicut, Kerala

Day 3 05.12.15
Field Level Training on Identification of Rare, Endangered and threat
plants of Western Ghats at Nelliampathy Forest along with Experts
Technical Session VIII 9.30am-11 am
Field level Training on Life meet Life

Identification : The Essence of fieldwork
Dr.Jomy Augustine
Associate Professor and Head Department
of Botany St. Thomas College, Pala, Kottayam.
1.30 pm-3.00 pm

Technical Session IX 1.30 pm-3.00 pm
Field level Training on Fern walk
Identification : To know them in the wild
Dr. Rajesh K.P. Assistant Professor
Department of Botany
Zamorins Guruvayoorappan College, Calicut
1.30 pm-3.00 pm

Technical Session X 1.30 pm-3.00 pm
Field level Training on Bryosphere of Nelliampathy: Meet them
in the wild
Dr. Manju C Nair Assistant Professor
Department of Botany
Zamorins Guruvayoorappan College,
Calicut Valedictory Session

WORKSHOP ON WESTERN GHATS BIOGEOGRAPHY: CHALLENGES IN CONSERVATION
DECEMBER 3 - 5, 2015

ORGANIZED BY
DEPARTMENT OF BOTANY
GOVT. VICTORIA COLLEGE
PALAKKAD-673001
CO-ORDINATED BY AAS WITH 'A' GRADED

SPONSORED BY
COLLEGIATE EDUCATION DEPARTMENT
GOVT. OF KERALA

Dear Sir/ Madam,
The Dept. of Botany Govt. Victoria College, Palakkad, has immense pleasure in inviting you to the Workshop on Western Ghats Biogeography - Challenges in Conservation, sponsored by Collegiate Education Department, Thiruvananthapuram, which will be held on 3rd, 4th and 5th of December 2015. We cordially invite the faculty members, research scholars and PG students to participate in the workshop.

Dr. Maya C. Nair
Convener & Head
Dept. of Botany

Dr. T. N. Sarasu
Principal

Dr. A. R. Rasmi
Co-Ordinator

Our Institution

Govt. Victoria College, is located in the heart of Palakkad town. The institution was started in the year 1886 as a rare school & became a high school in 1888. The high school was elevated to rank of State grade college and was affiliated to University of Madras. Currently, the college is affiliated to university of Calicut with BA, B.Com and B.A. PG courses in Arts and Science Subjects. The college is surrounded with 'A' grade to NAAC. It is spread over a campus of 25 acres with a number of heritage buildings.

About the Workshop

The Dept. of Botany is one of the oldest departments of the college where the UG course was started in the year 1952 and was later upgraded to the PG level in 1970. In 2013 the Dept. was recognized as research centre of University of Calicut.

PROGRAMME

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Department of Botany
Zamorins Guruvayoorappan College,
Calicut Valedictory Session

Workshop Details

Organizing Committee

Patron : Dr. T. N. Sarasu
Convener : Dr. Maya C. Nair
Co-ordinator : Dr. A. R. Rasmi
Members : Dr. K. R. Lenees
Mr. Suresh K. R.
Dr. Suresh V.
Mr. Sajan Jose
Mrs. Sophia Meeson K.
Mrs. Divya K.G.

Dr. Maya C. Nair
Head, Dept of Botany
Mob: 9407782916

Dr. A. R. Rasmi
Co-ordinator
Mob: 9447973019

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The Department OF History conducted UGC sponsored two day national seminar on the topic writing local history: methodology and practice on 9/10/2014 Dr. K K N Kurupu, eminent historian and former vice chancellor of Calicut University inaugurated the seminar, besides him, Janaki Nair, Professor of J N U, V J Verghese of Hyderabad university, K P Rajesh of NSS College, Manjery, K. Rajan OF Govt. Victoria College of Palakkad also were resource person of the two day seminar.

Department of Tamil

Govt Victoria College, Palakkad-678001



National Seminar on

TAMIL ELEMENTS IN KERALA FOLKLORE

1,2,3 December 2016

Certificate

This is to certify that Dr./Prof/Sri/Smt. V. RAVI

Asst. Prof. Govt. Victoria College has attended the

national seminar sponsored by The Directorate of Collegiate Education,

Govt. of Kerala.

He/She presented a Paper/Performance on "HYMNS"

Govt. Victoria College

Sri. T.K.Rajan
Principal

V. Ravi
Co-ordinator

Dr.S. Sai Sree Regha
Head of the Dept

REPORT

DC SPONSORED TWO DAY NATIONAL SEMINAR

PERFORMING LIFE: THEORIZING THE QUOTIDIAN

ON 13th & 14th December 2016

Dept of English

Govt. Victoria College, Palakkad

The Post Graduate Department of English, Govt Victoria College Palakkad organized a two day National seminar titled *Performing Life: Theorizing the Quotidian*, under the sponsorship of Directorate of Collegiate Education Kerala on 13th & 14th December 2016.

The seminar was a convergence of interdisciplinary subjects varying from arts to politics, to history and even to everyday life. Performance Studies has always been anchored to the theatrical/staged part of performances; this seminar however, was an innovative approach to the interdisciplinary possibilities of performances. The seminar while it aimed to explore what a performative angle equips us to tease out; also pushed forward critical scrutiny to what has often been relegated as falling outside academic interest, namely the quotidian, thereby opening up a kaleidoscope of platforms of discussions that formulate the phenomenon of everyday life. The seminar was attended by teachers, research scholars and students from various Government, Aided and Private institutions.

The seminar was inaugurated by Professor Rustom Homi Bharucha, School of Arts & Aesthetics, JNU, who is renowned nationally and internationally. He has an impressive academic track record, his alma mater being Yale School of Drama, UK; from where he did his Post Graduation and Doctorate. He is an active free-lance theatre director and also a well published writer whose works are often cited and quoted. Prof.Rustom Bharucha engaged us for two consecutive sessions.

PROGRAMME SCHEDULE

13/12/2016- DAY 1

9-9.30 AM – REGISTRATION

9.30-10 AM- INAUGRAL CEREMONY

10-11.30- INAUGRAL KEY NOTE SPEECH BY **PROF RUSTOM BHARUCHA**

School of Arts & Aesthetics, JNU

11.30-1 PM- QUESTIONAIRE AND INTERACTIONS BY **PROF RUSTOM BHARUCHA**

1.30- 3PM- PLENARY SPEECH BY **Dr. C.S BIJU**, ASSOCIATE PROF.DEPT. OF ENGLISH

ST.THOMAS

COLLEGE THRISSUR

3-4.30 PM – INTERACTION AND PPT PRESENTATION BY **Dr. C.S BIJU**

PAPER PRESENTATIONS WERE DONE IN A PARALLEL SESSION

14/12/2016 –DAY 2

9.30-11 AM – KEYNOTE SPEECH BY **PROF M.V NARAYANAN** ASST. PROFESSOR

DEPT OF ENGLISH, UNIVERSITY OF CALICUT

11-12.30 PM- INTERACTION AND PPT PRESENTATION BY **PROF.M.V NARAYANAN**

1.30 PM -3 PM-PLENARY SPEECH BY ASST.PROF. **Dr. PRIYA .V**, SCHOOL OF BUSINESS STUDIES

CHRIST UNIVERSITY BANGALORE

3-4.30 PM – INTERACTION AND PPT PRESENTATION BY ASST.PROF. **Dr. PRIYA .V**

PAPER PRESENTATIONS WERE DONE IN A PARALLEL SESSION

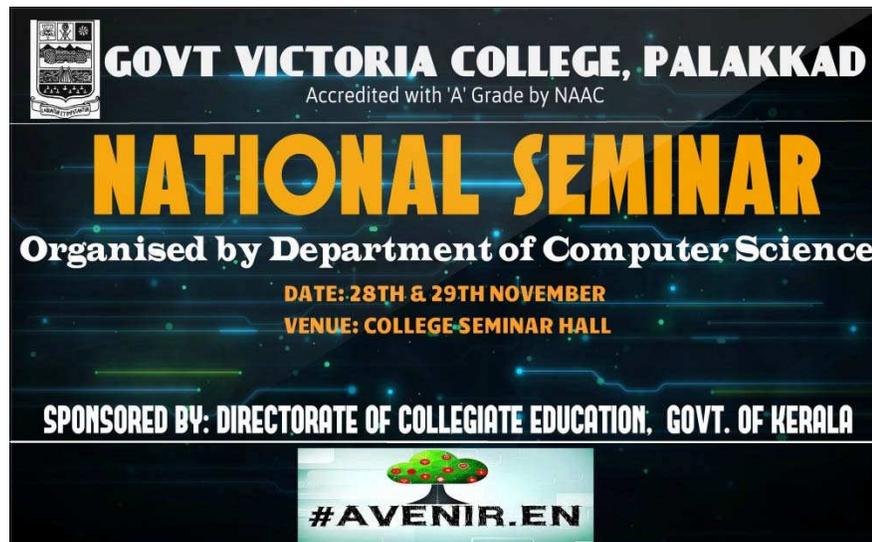
4.30- VOTE OF THANKS

TOTAL SESSIONS - 10

“Emerging Trends in Computer Science”

A two day National Seminar was conducted by Department of Computer science on the topic “Emerging Trends in Computer science” sponsored by Directorate of Collegiate Education, Govt of Kerala on 29th & 30th November 2016 at Seminar Hall. The technical sessions were handled by

- Dr. T.P Abbas
HOD, Associate Professor on Deputation
Department Of Computer Science
Central University of Kerala
- Dr.Jomy John
Assistant Professor
KKTM Government College,
Pullut (P.O), Kodungallur, Thrissur.
- Mrs.Sruthy
Assistant Professor,
NSS College of Engineering, Palakkad
- Dr. B.Kannan
Associate Professor & Head
Department of Computer Applications
Cochin University of Science and Technology, Kochi



GOVT VICTORIA COLLEGE, PALAKKAD
Accredited with 'A' Grade by NAAC

NATIONAL SEMINAR
Organised by Department of Computer Science

DATE: 28TH & 29TH NOVEMBER
VENUE: COLLEGE SEMINAR HALL

SPONSORED BY: DIRECTORATE OF COLLEGIATE EDUCATION, GOVT. OF KERALA


#AVENIR.EN

Three Day National Seminar Sponsored By University Grants Commission

Multiple Lives of Malayali: Literature, Culture and Society

28, 29, 30 September 2015

Department of Malayalam, Govt. Victoria College, Palakkad

Seminar Coordinator: Dr. T. Sreevalsan

This seminar aimed to portray the Multiple lives of Malayalis in our current scenario. Three day seminar analysed Both social and Cultural aspects of Literature by eminent scholars from various fields of Arts and Literature. The seminar was inaugurated by Eminent Tamil Malayalam Writer Sri. Jayamohan. Other scholars include Dr. Sunil P Elayidom, Dr. P. Pavithran, Dr. P.M.Girish, Dr. T. Githesh, Dr. Lal Mohan, Dr. Pradeepan Pambirikkunnu, Dr. H.K. Santhosh, Smt. E.K.Sheeba, and Researches from many universities. Total number of participants were above 100. The seminar was sponsored by University Grants Commission, New Delhi.





**"INNOVATIONS IN LITERARY GENRES
WITH SPECIAL REFERENCE TO MALAYALAM LITERATURE"**

BY THE DEPARTMENT OF MALAYALAM,
GOVT. VICTORIA COLLEGE, PALAKKAD

Sponsored by the Directorate of Collegiate Education, Govt. of Kerala
(November 29, 30 - 2016)

Seminar Coordinator: Dr. T. Sreevalsan

Recent trends in literature show a remarkable shift in focus from contemporary literary genres such as story, poetry, novel, drama etc. to a set of new mode of writing, and are being read by wider audience and being appreciated by people from all walks of life. These writings opened new vistas of knowledge and experience and in effect they gradually tend to erase the boundary between "literary" and "non-literary" genres. A wide range of writings coming under this "non-genres" are appearing in so called "literary" magazines and publications. To look into this phenomena from the point of view of cultural analysis was the main objective of the seminar.

There was a master session, evaluating the current scenario in Malayalam literature, followed by contributory sessions from various fields such as Photographical writings, Life sketches, Retold autobiographies of marginalized lives, writings of exile, scientific writings, technological writings, queer and LGBT life sketches, etc. delivered by the master writers themselves.

The Resource Persons include Sri. V. K. Sreeraman, Fr. Pathrose, Musafar Ahammed, Dr. Jeevan Job Thomas, Dr. T. Githesh, Sri. N. A. Naseer, Sri. G.R. Indugopan, Dr. Reshma Bharadwaj, and Thaha Matayi,





INVITED LECTURE - RECENT TRENDS IN BIODIVERSITY CONSERVATION AND CLIMATE CHANGE – 2016

Invited lecture on Recent Trends in Biodiversity Conservation and Climate Change was conducted to update the knowledge of students, researchers and faculties working in Life/Environmental Sciences on the current advances in the field of biodiversity conservation and climate change so as to empower them to develop strategies to combat the issues with better insights on the challenges and opportunities. Eminent personalities like Dr. R R Rao, Dr. K R Shivanna, Prof. Bhaghyaraj D and r. K Haridasan. The conservation of biodiversity and mitigation of climate change are the leading topics being addressed by the scientific community throughout the world. It will remain as a sizzling topic in the years to come. The issues raised by climate change and biodiversity loss have to be tackled on one hand by generating awareness among the people and on the other by developing scientific strategies to conserve biodiversity and to combat climate change. Teaching and research are the essential steps that are to be taken to accomplish this goal. The lecture gave students, researchers and faculties an in-depth understanding of the issues related to environmental changes and encouraged the students to consider the future possibilities of research in environmental security and provided positive impact on the listeners to involve in biodiversity issues.

Science Academies' Lecture Workshop on
 "Recent Trends in Biodiversity Conservation
 and Climate Change"
 16th & 17th November, 2016

REGISTRATION FORM

Name :
 Programme & Branch :
 Designation :
 Institution :
 Institutional Address (Telephone, E-mail) :
 Residential Address (Telephone, E-mail) :
 Contact Phone No. :
 E-mail ID :
 Mobile No. :
 Date: Signature of the participant
 Place:

Convener
 Dr. R.R.RAO
 INSA Honorary Scientist
 Central Institute of Medicinal and Aromatic Plants
 Bengaluru- 560 064

Coordinator
 SOJAN JOSE
 Assistant Professor
 Department of Botany
 Government Victoria College
 Palakkad -678001,Kerala

Venue of the workshop
 The two days Lecture Workshop will be held at Seminar Hall,
 Government Victoria College, Palakkad -678001

Who should attend the workshop
 Students undergoing B.Sc./M.Sc./M.Phil./Ph.D. in Botany / Zoology
 / Forestry/ Environmental science degree from recognized
 institutions and Teachers from similar fields



Science Academies' Lecture
 Workshop on "Recent trends in
 Biodiversity Conservation and
 Climate change"

16th & 17th November, 2016

Organized by
 Department of Botany



GOVERNMENT VICTORIA COLLEGE
 (NAAC accredited with A Grade)
 Palakkad – 678 001,Kerala, India

Sponsored by



GOVERNMENT VICTORIA COLLEGE

Government Victoria College Palakkad is the oldest institution of higher learning in the Malabar region of Kerala. It is affiliated to the Calicut University and provides undergraduate and postgraduate education in Science, Arts and Commerce subjects.

Few colleges in Kerala can boast of a tradition as rich and varied as Government Victoria College, Palakkad. It has established itself as one of the most distinguished centers of higher learning in the State. Although the college was started as a Rate School way back in 1866, the institution rose into prominence as a college of renown in 1887 when a great philanthropist, Sri Nellisser S. Narayana Iyer donated land gratis for the construction of this noble alma mater. Since then the college has had a tradition of principals who were excellent academicians and administrators and students who were always eager to strive hard in the pursuit of knowledge. Today, Govt Victoria College occupies a peak of prominence among the cultural landmarks of this scenic district, if not of Kerala. It is spread over a campus of 25 acres punctuated by the imposing buildings housing various departments. The clock tower in the campus, the popular college maidan with its Victorian giant tree offering shade to one and all, and the towering Sri M. Krishnan Nair Gate, are just a few of the major attractions of this college.

The Department

Department of Botany marked its beginning in the Year 1950 and the Post graduate course has been started in the Year 1970. In 2013 the Department has been recognized as a Research Centre under the University of Calicut. This Department is equipped with a research laboratory, reference library with more than 3000 books, internet facility and reference journals (online and subscribed), Museum with more than 500 specimens, a well preserved Herbarium, a medicinal plant repository and a state of the art green house.

At present Department undertake UG and PG programmes in Botany (under semester scheme) and PhD programme in Botany.

Workshop

This workshop focuses on all key branches of Biodiversity Conservation by highlighting the challenges posed by Climate Change in conserving Biodiversity conservation. The issues related with contemporary research in these fields will be discussed in detail.

Science Academies

Indian Academy of Sciences (IAS), Bangalore founded in 1943 by Sir C.V.Raman, aims at promoting the progress and upholding the cause of science in pure and applied branches. Its major activities include publication and scientific journals and special volumes, recognition of scientific talent and its improvement of science education. As part of the science education programmes, the Indian Academy of Sciences in Bangalore in association with Indian National Science Academy (INSA), New Delhi and National Academy of Sciences, India (NASI), Allahabad organizes various programmes for the improvement of science education in the Universities and colleges throughout the country.

Registration Fees

There is no registration fee to attend this lecture workshop. Tea and lunch will be provided to the participants. Those who wish to participate in the lecture workshop should send the filled registration form on or before to 5th November, 2016 to

Sojan Jose

Coordinator

Science Academies' Lecture workshop on Recent trends in Biodiversity Conservation and Climate change
Department of Botany
Government Victoria College, Palakkad
Kerala – 678 001, India.
E-mail: Sojanhakkalackal@gmail.com; Phone: +91-9447838608.

| 16 th November, 2016 (Wednesday) | | |
|---|---|---|
| 09.15 – 10.00 am : Registration | | |
| 10.00 – 10.15 am : Inauguration | | |
| DURATION | SPEAKER | TOPIC |
| 10.15-11.15 am | Prof. R.R.Rao Central Institute of Medicinal and Aromatic Plants, Bangalore | Some emerging challenges in contemporary botanical science with particular focus on field oriented taxonomy and Ethnobotany |
| TEA BREAK | | |
| 11.30-12.45 pm | Prof. D. Bagyaraj Joseph NASI Sr. Scientist & Chairman, CNBRCD, Bangalore | Soil Biodiversity |
| LUNCH BREAK | | |
| 1.45-3.00 pm | Dr. K. Haridasan Former scientist, FRLHT Bangalore | Documenting and assessment of bio resources for maintaining economic and ecological resilience |
| TEA BREAK | | |
| 3.15-4.30 pm | Prof. K.R.Shivanna INSA Honorary Scientist, ATREE, Bangalore | Pollination: A critical ecosystem service essential for sustenance of biodiversity and crop productivity. |
| 17 th November, 2016 (Thursday) | | |
| 9.30-11.00 am | Prof. K. R. Shivanna INSA Honorary Scientist, ATREE, Bangalore | Conservation of plant diversity - Indian scenario |
| TEA BREAK | | |
| 11.15-12.30 pm | Dr. K. Haridasan Former scientist, FRLHT Bangalore | Development driven pressures, threat assessment and conservation of floral wealth with special reference to local resource |
| LUNCH BREAK | | |
| 1.30- 2.45 pm | Prof. R.R.Rao Central Institute of Medicinal and Aromatic Plants, Bangalore | Conserving the biological diversity in India: Concept of smaller hot spot pockets of biodiversity in different Eco-geographic zones . |
| TEA BREAK | | |
| 3.00-4.30 pm | Prof. D. Bagyaraj Joseph NASI Sr. Scientist & Chairman, CNBRCD, Bangalore | Arbuscular Mycorrhizal Fungi for Sustainable Agriculture |
| Valedictory Session | | |





कालिदास सभा

DEPARTMENT OF SANSKRIT
COLLEGE PALAKKAD
Three Day National Seminar on
BASIC TENETS & CONTEMPORARY RELEVANCE
& 9th, Decem
Sponsored by



**DEPARTMENT OF SANSKRIT
GOVT. VICTORIA COLLEGE, PALAKKAD**

REPROT OF THREE DAY NATIONAL SEMINAR

The Department of Sanskrit, Govt. Victoria College, Palakkad, organized a three day national seminar on Indian Philosophy- Basic Tenets and contemporary relevance on 7th, 8th, & 9th December 2016 with the sponsorship of Directorate of Collegiate Education, Govt. of Kerala. Under the Supervision of Dr. V.P.Vimala, HOD, Dept. of Sanskrit, Dr. Suma Parappattoli Co-Ordinate the programme by the assistance of the organizing committee Members, Dr. Jilsha A, Nisha V.N and Nikitha M.

The culture, art, literature, science & technology and religion are founded on the philosophical systems in India. The aim of the philosophy is to unravel the mysteries behind micro and macro cosmic existences. But the ancient philosophies are revised, reinterpreted and made relevant to modern age of the technological advancement. The aim of this seminar is to foster new ideas and interpretations of these ancient thoughts make them more relevant at present. Participants were expected to receive an exposure in the field of Indian Philosophy.

The inaugural function presided by Dr. V.P. Vimala, HOD, Dept. of Sanskrit, Sri. T.K. Rajan, Principal in charge, Govt. Victoria College, inaugurated the function. Chief guest Dr. C. Rajendran, Former HOD, Dept. of Sanskrit, University of Calicut; Sri. V. Premkumar, Vice Principal; Dr. C.V. Sreeranjithkumar, IQAC co-ordinator; Sri Ravikumar.K, PTA Secretary felicitate the function at 9.30 AM on 7th December 2016.

Session Started at 10 AM. Key Note Address presented by Dr.C.Rajendran, Former HOD, Dept. of Sanskrit, University of Calicut, from 10 AM to 11.30 AM. He gave an introduction to contemporary relevance of Indian philosophy. After that Dr.T. Aryadevi, Dean, SSUS, Kalady, Presented a paper on Nyayasastra and pramanas from 11.30 AM to 1 P.M. During the Session two Dr. C.M.Neelakandhan, Academic Director, Keralakalamandalam, presented a paper on Rigvedic Sources of Indian Philosophical Systems, from 1.30 PM to 3 PM. Then Dr. P.K. Dharmaraj Adat, Pro.Vice Chancellor, SSUS, Kalady, presented a paper on Lokayatam from 3 PM to 4.30PM.

In the Second Day on 8th December 2016 the morning session was handled by Dr.Muthulakshmi. K, Prof. Dept. of Vedanta,SSUS Regional Centre ,Tvm From 9.30 A. M to

11.A.M.in Advaita traditions Method and Theory.Then Dr. Mini. T,Associate Prof.S.S.U.S Kalady Presented a Paper on Sankhya Philosophy: Its Impact on Indian Tradition of Knowledge. From 11A.M to12 .30 P.M. The Participants were interactively took part in all these presentations.In the after noon session from 1.30 PM to 3 P.M.Dr. A.Swaminathan,Rtd Prof ,Govt. Victoria College Palakkad Presented a Paper on Analysis Of Mind As Per Yoga.Then Four Supporting Papers Preesnted By Delegates,Dr. Jayanisha. K,Asst Prof Keralavarma College Thrissur,Dr Parvathy K.P ,Asst Prof V.T.B CollegeMannampatta,Dr.Geetha.H, Asst. Prof,Govt.College Malappuram, Smt.Sapna O.P. Asst Prof,Govt.Brennan College Dharmadam.from 3.00 P.M to 4.30.P.M.

In the Third day On 9th December 2016 the morning session was handled by Dr. P.V. Ramankutty Rtd. Principal, Govt. College Elerithattu,from 9.30.A.M.to11.00 A.M in Principles of Human Rights and Buddhist Ethos.Then Dr.Lakshmi Sankar,Asst Prof,Sreekrishna College Guruvayur presented a paper on Bhagavatgita-Philosophical and Cultural Interpretations from11.00A.Mto 12.30 P.M.and a supporting paper presented by the delegate, K.S.Narayanan,Asst Prof,Aluva U C College.In the afternoon session Dr. N K. Sundareswaran Associate Prof,University of Calicut.presented a paper on Philosophical Tenets In Sahityasastra from 1.30 P.M to 3.00 P.M. Then two supporting papers presented by the delegates ,Dr Pushpadasan,Asst,prof ,S.N.G.S College Pattambi and K.Rajesh,Research Scholar ,University of Calicut .The participants were interactively took part in all these sessions.Finally we arrange a valedictory function in which participants gave their feedback and certificates are distributed to the participants.



GOVT. VICTORIA COLLEGE

PALAKKAD

Accredited with 'A' grade by NAAC

THREE DAY NATIONAL SEMINAR

On

**INDIAN PHILOSOPHY :
BASIC TENETS &
CONTEMPORARY RELEVANCE**
7th, 8th & 9th, Dec 2016

Venue : **KALIDASA HALL**

Organised by

DEPARTMENT OF SANSKRIT

Sponsored by

**DIRECTORATE OF COLLEGIATE EDUCATION,
THIRUVANANTHAPURAM,
GOVT. OF KERALA**



SESSION- VI 1.30 PM to 4 PM

- Welcome : **Nisha.V.N**
- Analysis of Mind As Per Yoga Philosophy* : **Dr.A.Swaminathan**
(Rtd. Prof. Govt. Victoria College Palakkad)
- Supporting Papers : **Dr. K. Pushpadasan**
(Asst. Prof. S.N.G.S. College Pattambi)
- : **Suja.K.** (Asst.Prof. NSS College Nenmara)
- : **Rajesh.K**
(Research Scholar Calicut University)
- Vote of Thanks : **Krishnadas.K**

VALEDICTORY SESSION 4 PM to 5 PM

- Welcome : **Dr. V.P. Vimala**
- Felicitation : **Mr. T.K. Rajan**

DELEGATES REVIEW

- Certificate Distribution : **Dr. A.Swaminathan**
- Vote of Thanks : **Dr. Suma Parappattoli**



Contact Us : 9446150119, 9495292738
Email : vimalakalyan@gmail.com
sumaadiyodi@gmail.com

Sankhya Philosophy: Its Impact on Indian Tradition of Knowledge : **Dr.T.Mini**
(Associate Prof. Dept. of Sahitya, S.S.U.S Kalady)

Vote of Thanks : **Vihitha.K**

SESSION- IV 1.30 PM to 4.30 PM

- Welcome : **Dr. Suma Parappattoli**
- Bhagavadgita -Philosophical and Cultural Interpretations* : **Dr. Lakshmi Shankar**
(Asst. Prof. Sreekrishna College Guruvayur)
- Supporting Papers : **Dr. Jayanisha. K**
(Asst. Prof. Sree Kerala varma College, Thrissur)
- : **Dr. Parvathy. K**
(Asst. Prof. V.T.B. College, Mannampatta)
- : **Smt. Meenakumari. M**
(Asst. Prof. N.S.S College, Manjeri)
- Vote of Thanks : **Manasa.T.S.**

9/12/2016

SESSION- V 9.30 AM to 1 PM

- Welcome : **Dr.V.P.Vimala**
- Principles of Human Rights & Buddhist Ethos* : **Dr.P.V. Ramankutty**
(Rtd. Principal, Govt. College, Elerithatt)
- Philosophical Tenets in Sahityasastra* : **Dr.N.K.Sundareswaran**
(Associate Prof. Calicut University)
- Vote of Thanks : **Sruthi A**

Dear Sir/ Madam,

We, the staff and students, Dept. of Sanskrit, Govt. Victoria College, Palakkad are very happy to invite you on the occasion of the Three Day National Seminar to be held from 7/12/2016 to 9/12/2016. The title of the seminar is "**Indian Philosophy: Basic Tenets And Contemporary Relevance**".

The culture, art, literature, science & technology and religion are founded on the philosophical systems in India. The aim of the philosophy is to unravel the mysteries behind micro and macro cosmic existences. But the ancient philosophies are revised, reinterpreted and made relevant to modern age of technological advancement. The aim of this seminar is to foster new ideas and interpretation of these ancient thoughts so as to make them more relevant at present.

We solicit your active participation to enrich the seminar.

Dr. Suma Parappattoli **Dr.V.P.Vimala** **Sri. T.K.Rajan**
(Co-ordinator) (HOD, Dept. of Sanskrit) (Principal)

Organizing committee

Dr.Jilsha.A
Nisha.V.N
Nikitha. M

Programme

7/12/2016
Registration : 9.00 AM

INAUGURAL SESSION 9.30 AM to 10 .AM

Prayer : **Annapoorni.V.V**
Welcome : **Dr. Suma Parappattoli**
(Co-ordinator)
Presidential address : **Dr. V.P.Vimala**
(HOD, Dept of Sanskrit)
Inauguration : **Sri.T.K Rajan**
(Principal, Govt.Victoria
College Palakkad)
Chief Guest : **Dr.C.Rajendran**
(Ex. Visiting Professor
Jagiellionion University
Krakow, Poland)
Felicitations : **Sri.V.Prem Kumar**
(Vice principal)
: **Dr.C.V.Ranjith Kumar**
(IQAC Co-ordinator)
: **Smt.Ajitha.K**
(HOD Malayalam Dept.)
: **Sri.Ravikumar**
(P.T.A. Secretary)
Vote of Thanks : **Dr. Jilsha A**

SESSION- I 10 AM to 1 PM

Welcome : **Nisha V.N**

Keynote Address

**Contemporary
Relevance of
Indian Philosophy** : **Dr. C. Rajendran**
(Ex. Visiting Professor
Jagiellionion University
Krakow, Poland)

**Nyayasastra
& Pramanas** : **Dr.T.Aryadevi**
(Dean, S.S.U.S., Kala)

Vote of Thanks : **Mekhala. C.M.**

SESSION- II 1.30 PM to 4.30 PM

Welcome : **Dr. Jilsha.A**

**Rigvedic Sources of
Indian Philosophical
Systems** : **Dr.C.M. Neelakandhar**
(Academic Director
Kerala Kalamandalam
Deemed University)

Lokayatam : **Dr.P.K.Dharmaraj Ada**
(Pro-vice Chancellor in
Charge, S.S.U.S., Kala)

Vote of Thanks : **Saranya.K**

08.12.2016

SESSION- III 9.30 AM to 1 PM

Welcome : **Nikitha.M**
**Advaita – Traditions
Method and Theory** : **Dr.Muthulakshmi.K**
(Prof. Dept. of Vedanta
S.S.U.S Regional center)



Technical session 6 11.00 AM-1.00 PM

Chair of the session:

Dr Muhammed Abdul Rafeeq. K.U
(Asst. Prof. MES College, Mampad)

Dr. M. C. Sathya Narayana

(Rtd. Prof. Mahatmagandhi Doerenkamp center,
Bharathidasan University)

‘Virtual lab softwares’

Vote of thanks : **Thasia Chandran**
(Guest Lecturer)

Lunch Break

Training on Lab softwares 1.30 - 4.30PM

Technical Assistance: Thasia Chandran

Day 3 8-12-2016

Technical Session 7 9.30-11.00 AM

Chair of the session : **Dr Jain J. Therattil**
(Asst. Prof. St. Aloysius,college Eithuruth)

Dr.V.C. Vaidyanathan

(Senior scientist, Central Leather Research Institute
Chennai)

**“Application softwares for biological
research”**

Vote of thanks : **Dr. Sindhu.K**
(Guest Lecturer)

Tea break

11.00 AM -12.30 PM

Demonstration of softwares

Technical Assistance: **Aneesha .U**
(Research Scholar)

Lunch Break

Technical Session 8 1.30- 3.00 PM

Consolidation and compendium preparation

Chair of the session : **Dr.C.V.Sreeranjitkumar**
(HOD Zoology)

Moderator : **Dr.K.A.Rasheed**
(Workshop Co-ordinator)

Valedictory Session 3.00 – 4.30 PM

Welcome Speech : **Dr.C.V.Sreeranjitkumar**
(HOD Zoology)

Presidential address : **Prof. Premkumar**

(Vice Principal, GVC, Palakkad)

Valedictory address : **Prof.M. P. Sethumadhavan**
(Principal Govt College Chittur
Former HOD Zoology ,
GVC, Palakkad)

Vote of thanks : **Dr.K.A.Rasheed**
(Workshop Co-ordinator)

Correspondance:

Dr.C.V.Sreeranjitkumar
HOD Zoology
Mob 9249425095

Dr.K.A.Rasheed
workshop co-ordinator
Mob 9447628709

Email: zoology@victoriacollege.in



National Workshop

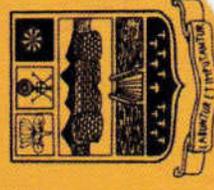
on

**E-Learning in
Biological Sciences**

December 6-8, 2016

Seminar Hall

Govt. Victoria College Palakkad



Organised by
Post Graduate & Research Department
of Zoology
Govt. Victoria College, Palakkad

Sponsored by
Collegiate Education Department
Govt. of Kerala



A national seminar on Recent changes in accounting and taxation has been organised by the department on 14th and 15th of December coordinated by Sri Binu C Kurien, Asst.Professor of Commerce. PG students from the college, faculties from other colleges etc. participated. Various sessions were handled by P.A.Vasudevan, R.Vaidyanathan, Ajith Sivadas ACA and Sreejith Warriar ACS.

GOVERNMENT VICTORIA COLLEGE,PALAKKAD

POST GRADUATE DEPT OF STATISTICS

REPORT OF TWO DAY NATIONAL SEMINAR

The Post graduate department of Statistics, Government Victoria College, Palakkad organized a two day national seminar on "Applied Statistics and Quantitative Finance" on 8th and 9th December 2016 with the sponsorship of Directorate of Collegiate Education, Government of Kerala. Ravikumar K, Head of the Dept Coordinated the program. Theory Sessions were held at Seminar hall at Chemistry block and the practical sessions were arranged at the computer lab of Statistics Department. The seminar encompasses the methodology and theory of statistics as applied to problems in Quantitative Finance. The main objective of the seminar was to give the participants insights in the functioning of financial markets, understanding of measuring and forecasting financial risks and the use of Statistics in an applied level. Participants were expected to receive and exposure to quantitative methodologies and tools suitable to interpret and analyze the economic and financial phenomena and to operate directly on financial markets or in international economic institutions.

The inaugural function presided by Prof V Premkumar, the Vice Principal of Govt Victoria College started at 9.30 A M on 8th December 2016. Prof N A Savitri, former Head of the Department of Statistics, Govt Victoria College, inaugurated the function. Chief Guest Dr Mayank Goel, Assistant Professor, BITS Pilani, Goa and Dr C V Sreeranjith Kumar, IQAC Coordinator, Govt Victoria College gave felicitations.

Sessions started at 10 a.m. Dr Mayank Goel handled the first two sessions. In the first session of 90 minutes from 10.30 A M to 11.30 A M he gave an introduction to Portfolio Theory and risk Management. In his talk starting with basic definition of Portfolio he discussed Markowitz Portfolio model. His second Session was a practical session in which he explained the implementation of model with real market using R Software. Two sessions in the afternoon was handled by Dr N Balakrishna, Professor, Department of Statistics, CUSAT. He discussed some applications of time series in analyzing expected option cost under homoscedasticity. These sessions were very interactive and fruitful.

In the second day morning sessions was handled by Dr Rohit Muraleedharan, Asst Professor, Narsee Monjee Institute of Management Studies, Mumbai. In the first session he explained Multi variate Time series Modelling with a focus on Vector Auto Regressive models, Granger Casualty and error correction. He gave a practical session with the help of R software. In the afternoon session Dr Jilesh Asst Professor, Dept of Statistics, Govt Arts and Science College Calicut, gave an introduction to heteroscedastic cases such as ARCH and GARCH Models.

In the final session some of the participants presented papers. In the valedictory session participants gave their feedback and certificates were issued to participants.

ORGANIZING TEAM

T.K.Rajan, Principal
Ravikumar K, HOD
Sreelekshmy S
Divya A
Aswani A
Sreeja P
Mahesh M

REGISTRATION FORM

Name:
Designation:
Institution/Organisation:
Mailing Address:
.....
Email:
Phone/Mobile:
Date:
Signature:

Anyone who wish to present their papers,
please send an abstract of your work by 30th November 2016.

Your participation may be intimated to:
Sreelekshmy S, +919207442495
E mail: statistics@victoriacollege.in

Two-day National Seminar on
**APPLIED STATISTICS AND
QUANTITATIVE FINANCE**



Date:
8-9 December, 2016

Venue:
Dept of Statistics, Govt.Victoria College, Palakkad



Organized by
Post Graduate Department of Statistics,
Govt.Victoria College, Palakkad,
Kerala – 678001
(Sponsored by Directorate of Collegiate Education,
Govt. Of Kerala)



About the college

Government Victoria College is located in the heart of Palakkad Town. This institution was started in the year 1866 as Rate School and became a Govt. High School in 1877. In 1888 the high school was raised to the rank of Second Grade College and was affiliated to University of Madras. Currently, the college affiliated to University of Calicut with 16 UG courses and 10 PG courses in Arts and Science subjects and is recognized as Centre of Excellence by Govt. of Kerala. The college is re-accredited with "A" Grade by NAAC. It is spread over a campus of 25 acres with a number of heritage buildings. The clock tower, the popular college maidan with its Victorian giant tree and the towering Sri. M. Krishnan Nair Gate are just a few major attractions of this college.

About the Department

The department of Statistics was established in 1957. It offers PG course in Statistics and subsidiaries in various disciplines. Several of its alumni were placed in government as well as in private sectors. The department is providing consultancy services in Statistical data analysis, Statistical Software training and classification of Statistical concepts. The department was successful in the value addition of students in transforming them to the knowledge assets of the society.

Sir/Madam,

We are organizing a two-day seminar on Applied Statistics and Quantitative Finance on 8th and 9th December, 2016 at the Department of Statistics, Govt. Victoria College, Palakkad under the sponsorship of Directorate of Collegiate education, Government of Kerala. Dr. N Balakrishna, CUSAT, Cochin, Dr. Mayank Goel, BITS Pilani - K.K Bilra Goa campus, Dr. Rohit Muralreedharan, Narsee Monjee Institute of Management Studies, Mumbai and Dr. Jilesh V, Government arts and science College, Meenchanda will be the resource persons.

The goal of this seminar is to give the participants insights in the functioning of financial markets, understanding of measuring and forecasting financial risks and the use of statistics in an applied level. After the seminar the participants should be familiar with the recent empirical developments in the field of applied statistics and financial analytics.

Participants will receive exposure to quantitative methodologies and tools suitable to interpret and analyze the economic and financial phenomena and to operate directly on financial markets or in international economic institutions.

Yours sincerely,

Prof. T.K. Rajan
Principal

Ravikumar K
Head of Department



The department of history conducted a two day seminar sponsored by Directorate of Collegiate Of Education and Department of Archaeology on march 13-14, 2017 on the topic Colonial Archaeology and its Legacies. Dr. K K Mohammed , retired Regional Director, Archaeological Survey of India Northern Circle, inaugurated seminar. Dr. p Rajan gurukkal, former vice chancellor of Mahatma Gandhi University , Kottayam, Dr. P Devadas of NSS College Ottappalam, Dr. P Sreekumar former HoD of Department of history , Govt. Victoria college Palakkad also presented papers on two day seminar.

**National Seminar on
Frontiers & Developments in Materials Science**

13-11-2017 to 14-11-2017

Seminar Report

Department of Physics, Govt. Victoria College, Palakkad, organised a national seminar on “**Frontiers & Developments In Materials Science**” on **13-11-2017 to 14-11-2017** at Chemistry Seminar hall, with the financial support from the Directorate of Collegiate Education, Govt. of Kerala. The aim of the seminar was to give an exposure to the teachers and students of nearby colleges to current trends in modern materials science research. The prime objective of the seminar was to equip the participants with the basic knowledge in fundamental and experimental techniques to overcome the challenges in the field.

Seminar was inaugurated by Prof. M. R. Anantharaman, UGC BSR fellow from Cochin University of Science and Technology. Prof. O.K. Ramesan, Head of the department of Physics, welcomed the resource persons and participants where, the principal Prof. V Premkumar presided. Dr. Santhi V, Head of the department of Chemistry felicitated the seminar. Two of the meritorious students who got awards for their MSc projects were felicitated in the inaugural meeting. About 90 participants attended the seminar. There were seven resource persons; Prof. M. R. Anantharaman, Cochin University of Science and Technology, and Prof. Reji Philip from Raman Research Institute Bangalore for FN, Dr. T N Narayanan From TIFR Hyderabad for AN sessions on 13 11- 17. Dr. Senoy Thomas and Dr. Saji K J from Cochin University of Science and Technology, for FN and Dr. K A Malini, Vimala College Thrissur, and Dr. Pradeesh K, Govt. Victoria College for AN sessions on 14-11-2017.

Prof. Anantharaman gave a lecture about functional 2D nanostructured materials. He delivered a nice lecture about the basics of Nano materials and nano technology and various fields of application of 2D materials. In the second lecture,

Dr. Reji Philip, from Raman Research Institute Bangalore, explained the physics of nonlinear optical materials. He explained about various types nonlinearities experimental set up using high power laser pulses. In the afternoon sessions Dr. T. N. Narayanan, TIFR Hyderabad explained the need for novel materials with energy need in future. Second session he explained in detail the physics and chemistry behind Nanostructured Electrodes for Energy Technology.

The second day first lecture was given by Dr. Senoy where he explained the history and basics of magnetic data storage , current perspectives and future challenges in the technology. Dr. Saji K J from International School Of Photonics explained the recent trends in Two Dimensional Materials for Field Effect Transistors, solar cells and the miniaturisation in the device technology. Dr. K A Malini gave a lecture on Mossbauer spectroscopy applied to analytical techniques in Material research. Dr Pradeesh K explained the current trends in Glass Science and Technology and its various applications in recent future. The seminar came to an end with a brief Valedictory function.

Dr. Reena Mary A P

Asst. Professor

(Coordinator)

**DEPARTMENTS OF ECONOMICS
GOVT.VICTORIA COLLEGE, PALAKKAD**

Report of seminar organised on 14-15, November, 2017

The Department of Economics Govt. Victoria College, Palakkad organised Two Day National Seminar on “Gender Perspectives on Development” on 14th and 15th November 2017 with the financial assistance of Department of Collegiate Education, Govt of Kerala. Dr Kavitha A C coordinated the programme.

The chief guest of the event was Dr. Mridul Eapen, Member, Kerala State Planning Board, Trivandrum who inaugurated the seminar.

The technical sessions:

- Gender Perspectives on Development - Prof. Mridul Eapen, Member, Kerala State Planning Board, Trivandrum) delivered the inaugural address and discussed on the need for women as not just beneficiaries but active agents of development.
- Gender Perspectives on Development : A Theoretical Approach- Dr. M Indira (Professor and Head, Dept. of Economics, University of Mysore)
- Gender Responsive Budgeting: Scope at the Local Govt. Level - Dr. Nirmala Padmanabhan, Faculty, Department of Economics, St. Teresa’s College, Ernakulam)
- Female Labour Force Participation in India: A Regional Analysis – Dr. Vinoj Abraham, (Associate Professor, Centre for Development Studies, Trivandrum)
- Gender Concerns in Ecosystem Management : Dr. Geetha Kutty, (Professor, Centre for Gender Studies in Agriculture, Kerala Agriculture University, Thrissur)
- Labour Market Participation of Women in Kerala: The Reality: Dr. MG Mallika, Asst. Professor and Head of the Department of Economics, Zamorins College, Calicut

The national seminar dealing with various aspects of the Gender Perspectives on Development was attended by teachers and research scholars from various colleges and research institutes.



ദേശീയ സെമിനാർ റിപ്പോർട്ട്

‘ മലയാള ചെറുകഥ ഉത്തരോത്തരം ‘എന്ന പ്രമേയത്തെ മുൻ നിർത്തി കോളേജിയറ്റ് എഡ്യൂക്കേഷന്റെ ധനസഹായത്തോടെ ഗവ:വിക്ടോറിയ കോളേജ് മലയാളവിഭാഗം 2017 നവംബർ 7,8 തിയതികളിൽ ദേശീയ സെമിനാർ സംഘടിപ്പിച്ചു .നവംബർ 7 രാവിലെ 9.30 മണിക്ക് പ്രിൻസിപൽ ഇൻ ചാർജ് പ്രേമ്കുമാർ സാർ ആമുഖപ്രഭാഷണം നടത്തി.വകുപ്പധ്യക്ഷ കെ.അജിത അധ്യക്ഷ്യം വഹിച്ചു. പ്രശസ്ത കഥാകൃത്ത് എൻ.എസ്.മാധവൻ ഉദ്ഘാടനം ചെയ്തു. സെമിനാർ കോ-ഓർഡിനേറ്റർ സ്മിതാറാണി എം.എസ് സ്വാഗതം പറഞ്ഞു. ഡോ: ദീപ എസ്.എസ് നന്ദി പറഞ്ഞു.സി.വി ശ്രീരഞ്ജിത് കുമാർ(IQAC Co-ordinator)ആശംസ നേർന്നു.

പ്രശസ്ത നിരൂപകൻ ഇ.പി രാജഗോപാൽ.കഥാകൃത്തുക്കളായ എസ്.ഹരീഷ്,വിനോയ് തോമസ് എന്നിവർ തുടർന്നുള്ള സെഷനുകളിൽ വിഷയാവതരണം നടത്തി.നവംബർ 8ന് എച്ച്മുക്കുട്ടി,വി.എം ദേവദാസ്,കെ.രാജൻ,വി.വിജയകുമാർ എന്നിവർ വിഷയാവതാരകരായിരുന്നു.4.30 ന് സർട്ടിഫിക്കറ്റുകൾ വിതരണം ചെയ്തു രണ്ടുദിവസങ്ങളിലായി അധ്യാപകരും വിദ്യാർത്ഥികളുമടക്കം 100 പേർ സെമിനാറിൽ പങ്കെടുത്തു.







GOVERNMENT VICTORIA COLLEGE, PALAKKAD



DEPARTMENT OF TAMIL

TWO - DAY NATIONAL SEMINAR ON

"MODERN TRANSFORMATION OF TAMIL LITERATURE"

(Sponsored by the Directorate of Collegiate Education, Govt. of Kerala)

Certificate

Certified that Sri/Smt./Dr..... has attended the two day National Seminar on "Modern Transformation of Tamil Literature" as a participant / Resource person, organised by the Department of Tamil, Govt. Victoria College, Palakkad, sponsored by the Directorate of Collegiate Education, Government of Kerala, Thiruvananthapuram on 30th November 2017 and 1st December 2017.

He/She has presented a paper titled..... during the seminar

Co-ordinator

Smt. SALMA MAHAJABEEN T.M
Govt. Victoria College

HOD

Dr. S. SAI SREE REGHA
Govt. Victoria College

Principal

Prof. V. PREMKUMAR
Govt. Victoria College
GOVT. VICTORIA COLLEGE

Date.....

SEMINAR REPORT: Dept. of Hindi, Govt. Victoria College Palakkad conducted a Two Day National Seminar on the topic MYTH & CONTEMPORARY LITERATURE ON 23RD AND 24TH OF November 2017. Eminent Professors like Dr. Prathibha Mudaliar (Prof. & HOD of Mysore University) and Prof Raghavan Payyanad (Prof. of Folk Lore, Calicut University) were present in this seminar. About 40 teachers from different colleges and Universities were present and nearly 100 students were present. This seminar was sponsored by DCE. The co-ordinator of this seminar was Dr. P.N. Jayraman.

SEMINAR REPORT

National Seminar on 'MYTH AND CONTEMPORARY LITERATURE'

23 & 24 November 2017

Department of Hindi, Govt. Victoria College, palakkad conducted a Two Day National Seminar on 'MYTH AND CONTEMPORARY LITERATURE' on 23 & 24 November 2017 sponsored by the Directorate of Collegiate Education, Kerala. Dr. Prathibha R Mudaliar, Professor of Hindi, University of Mysore was the Chief Guest and delivered the Key-note Address. The eminent scholars like Dr.Pramod Kovvaprath, Professor of Hindi, University of Calicut, Dr.Subrahmanian.V.K, Associate Professor of Hindi, University of Calicut, Dr.Ravi.P, Head of the Department of Hindi, Sree Sankaracharya University of Sanskrit, Kalady, Kerala, Dr.Sasidharan, Professor of Hindi, cochin University of Science and Technology, Dr.Raghavan Payyanad, Folk lore Study Centre, University of Calicut were the Resource Persons of the Seminar. Dr.Sunny.N.M., Associate Professor of Hindi, Malabar Christian College, Calicut, Dr.Prabhakaran Hebbar Illath, Asst. Professor of Hindi, Govt. Brennen College, Thalassery, Dr.B.Vijayakumar, Associate Professor of Hindi, Govt. Arts and Science College, Thrissur, Dr.Geetha, Associate Professor of Hindi, Vyasa College, Vadakkanchery, Dr.Radhamani, Asst. Professor of Hindi, Maharajas College, Ernakulam were also presented their Research Papers and shared their ideas and views. 40 faculty members from different Universities and colleges, Research Scholars and more than 100 students were participated in the seminar and discussions. The Seminar was very useful, inspiring and informative for the participants.

पालककाष्ठ,
10.11.2017

आवस्यीय महीदय/महोदय,

हिंदी विभाग, सरकारी विश्वविद्यालय कॉलेज, पालककाष्ठ के तत्वावधान में
अतिरिक्त शिक्षा निदेशालय के आर्थिक सहयोग से 23, 24 नवंबर 2017 को
“अभिरूढ़ और संप्रकाशित साहित्य” विषय पर द्विदिनीय राष्ट्रीय संगोष्ठी का
अयोजन हो रहा है। महाराज गाँधी अंतरराष्ट्रीय हिंदी विश्वविद्यालय, यहाँ के
भूतपूर्व उपकुलपति प्रोफ. ए. अश्विन्द्याज, मैसूर विश्वविद्यालय के हिंदी प्रोफेसर
डॉ. प्रतिभा और मुद्रितिया, कर्नाटक विश्वविद्यालय के कर्कसीर विभाग के
प्रोफेसर, रामचन्द्र अग्रवाल और महाराज अग्रवाल सहयोगियों को संगोष्ठी को
सौख्यवर्धित करने में आपकी सक्रिय भागीदारी सागर प्रार्थित है।

डॉ. अश्विन्द्याज, मोरछा डॉ. ज्योति एन. ओफ. ट्रेडिंग/गैर टी.
(संगोष्ठी) (हिंदी विभाग/यका)

23 नवंबर 2017 गुरुवार पूर्वाह्न 9.30-11.30 बजे
कार्यक्रम
अवसान 3:30

- 1. अजिता के.यू. 2. आभा. के.ए. 3. जयान्त गुडेदार
- डॉ. ज्योति, एन. (विभाग/यका)
- डॉ. प्रेमकुमार जी. (मोबाई)
- डॉ. ए. अश्विन्द्याज
- (भूतपूर्व उपकुलपति, महात्मागान्धी
अंतरराष्ट्रीय हिंदी विश्वविद्यालय, यहाँ)
- 1. डॉ. अश्विन्द्याज, मैसूर (संगोष्ठी)
- 2. डॉ. रवि नायर.
- (हिंदी साहित्य संगम, पालककाष्ठ)
- 3. डॉ. अजिता. के. (संगोष्ठी, कॉलेज युनियन)
- डॉ. प्रतिभा और. मुद्रितिया
- (प्रोफेसर, हिंदी विभाग, मैसूर विश्वविद्यालय)
- डॉ. जयराज पी.एन. (संगोष्ठी)

दूसरा रात्र 11.30-01.00 बजे
विषय : भारतीय और पश्चात्य अवधारणा

- मनीषा. जे
- डॉ. बालमुद्रप्रधान. सी.
- अश्विन्द्याज प्रोफेसर, विक्टोरिया कॉलेज, पालककाष्ठ।
- डॉ. प्रमोद कोवप्रत
- (हिंदी विभागाध्यक्ष, कॉलेज/विश्वविद्यालय)
- 1. डॉ. सचमी एन.एस
- (अश्विन्द्याज प्रोफेसर, राजाराम विश्वविद्यालय, कर्नाटक)
- 2. डॉ. सिना
- (अश्विन्द्याज प्रोफेसर, एम.ई.एस. कॉलेज, गोल्फागि, मजपुरम)
- विष्णुश्रिवा. श्री

तीसरा रात्र अवसान 1.30-3.30 बजे तक

- विषय और संप्रकाशित हिंदी कविता
- सोपनी सिनोबकुमार
- डॉ. पी.के. रेणु (भूतपूर्व हिंदी प्रोफेसर, सरकारी विश्वविद्यालय
कॉलेज, पालककाष्ठ)
- प्रोफ. ए. अश्विन्द्याज
- 1. डॉ. सुब्रह्मण्यम श्री.के.
- (अश्विन्द्याज प्रोफेसर, कासिजट विश्वविद्यालय)
- 2. डॉ. जयराज देव्यार इल्लव
- (अश्विन्द्याज प्रोफेसर, ब्रह्मन कॉलेज, मजसोली)
- 3. कविता राघु (सोपनी छात्र, कर्नाटक विश्वविद्यालय)
- टी.आर. राजन

चौथा रात्र 3.30-05.00 बजे
विषय और संप्रकाशित हिंदी कहानी

- कृति आर
- डॉ. श्रीकला. के.के.
- (अश्विन्द्याज प्रोफेसर, विक्टोरिया कॉलेज, पालककाष्ठ)
- प्रोफ. रवि. जी.
- (विभागाध्यक्ष, श्री संकषणार्थ अंतर्गत विश्वविद्यालय, कालडी)
- 1. डॉ. सुभा. ए.ए.
- (अश्विन्द्याज प्रोफेसर, सरकारी कविता कॉलेज, मजसोली/मजपुरम)

स्वागत
अध्यक्ष

मुख्य वक्ता

अध्यक्ष

कृतज्ञता

स्वागत
अध्यक्ष

मुख्य वक्ता
अध्यक्ष

कृतज्ञता

स्वागत
अध्यक्ष

मुख्य वक्ता

अध्यक्ष



हिन्दी विभाग

सरकारी विक्टोरिया कॉलेज, पालक्काड

കേരള സർക്കാർ

ഗവൺമെന്റ് വിക്ടോറിയ കോളേജ്, പാലക്കാട്

राष्ट्रीय संगोष्ठी

ഭരണീയ രംഗീനരൾ

പ്രൊ. ഖഗമുഖല റ്റേല (കോളേജ അധീനം)

നവംബർ 23, 24

പ്രൊഫ. അമർജുധൻ ഹർഗുഡ (കോളേജ് റെഗിസ്ട്രാർ ഹർഗുഡ)

നവംബർ 23, 24

വിഷയ : മിയാക അർ സമകാലീന സാഹിത്യ

സംഘടന : സർക്കാർ സർവകലാശാല, പാലക്കാട്

പ്രാധ്യാപക

മഹാവിധാലയ സിദ്ധ സിദ്ധാലയ, കേന്ദ്ര സർവകലാശാല

കോളേജ്

കോളേജ് വിദ്യാർത്ഥന്മാരുടെയും, കോളേജ് അധ്യാപകരുടെയും

2. ഡോ. ദേശമന (ഇംഗ്ലീഷ് പ്രൊഫസർ, കാലികട വിശ്വവിദ്യാലയ)
3. ഡോ. സജീവ, (ഇംഗ്ലീഷ് പ്രൊഫസർ, എ.എ.എ.എ. കോളേജ്, കോട്ടയം)

കൃതജ്ഞ

പ്രൊഫ. സർ 24.11.2017 മുതൽ 9.30-11.00 വരെ

മിയാക അർ സമകാലീന ഹിന്ദി ഉപന്യാസ

സ്വഗത : സുൽയാ. അർ.

അദ്ധ്യക്ഷ : ഡോ. സുമാ. റ്റേ. (സഹായക അധ്യാപക, വിക്ടോറിയ കോളേജ്, പാലക്കാട്)

മുഖ്യ വക്താ

ഡോ. ഹൈ. ജി. (ഇംഗ്ലീഷ് പ്രൊഫസർ, സർക്കാരി കോളേജ്, മലപ്പുഴ)

അന്യ വക്താ

പ്രൊഫ. സി. രാജു. (ജി. പ്രൊ. സെറ്റ് കോളേജ്, ഇരിങ്ങാലക്കുട)

കൃതജ്ഞ : അമല. റ്റേ.

പ്രൊഫ. സർ 11.00-1.00 വരെ

മിയാക അർ സമകാലീന ഹിന്ദി നാടക

സ്വഗത : മാനവിക. റ്റേ.

അദ്ധ്യക്ഷ : ഡോ. ഡി. വിജയകുമാർ (അസോസിയേറ്റ് പ്രൊഫസർ, സർക്കാരി കോളേജ്, എറണാകുളം)

മുഖ്യ വക്താ

ഡോ. സാമുവൽ (ഇന്ത്യൻ പ്രൊഫസർ, കുമാട്)

അന്യ വക്താ

1. ഡോ. സി. (അസോസിയേറ്റ് പ്രൊഫസർ, ഡി. കോളേജ്, മടവള്ളം)

2. ഡോ. പ്രതിമ. (ഇംഗ്ലീഷ് പ്രൊഫസർ, സർക്കാരി കോളേജ്, എറണാകുളം)

3. ഡോ. സാമുവൽ, (ഇംഗ്ലീഷ് പ്രൊഫസർ, മഹാരാജാസ് കോളേജ്, എറണാകുളം)

4. ഡോ. സി. സുബ്ബ. (ഇംഗ്ലീഷ് പ്രൊഫസർ, സർക്കാരി കോളേജ്, അമലപ്പുഴ)

5. ഡോ. സാമുവൽ (ഇംഗ്ലീഷ് പ്രൊഫസർ, സർക്കാരി സിന്ധു കോളേജ്, തിരുവനന്തപുരം)

സ്വഗത : സി. സി. സി.

പ്രൊഫ. സർ 1.30-3.30 വരെ

മിയാക അർ സമകാലീന സാഹിത്യ

സ്വഗത : പ്രൊഫ. സി. സി. സി.

അദ്ധ്യക്ഷ : പ്രൊഫ. സി. സി. സി.

അന്യ വക്താ : പ്രൊഫ. സി. സി. സി.

കൃതജ്ഞ : പ്രൊഫ. സി. സി. സി.

സംഘടന സർ 3.30 വരെ

സംഘടന

സംपर्ക് നമ്പർ : 9446510442, 9605153876



**REPORT OF THE TWO-DAY NATIONAL SEMINAR ON
OPERATORS AND MATRICES
NOVEMBER 2-3, 2017.**

The department of collegiate education sanctioned a Two-day national seminar to the Department of Mathematics, Government Victoria College Palakkad under the faculty development (plan) in response to the request made by the department during 2016-2017 academic year. The letters inviting participation were sent to various institutions across Kerala and neighboring states. Students and teachers from various colleges of the state were participated in the seminar. The Inaugural session was presided over by the respected Vice- Principal Prof. V Premkumar. Dr. V.B. Kiran Kumar, department of Mathematics, Cochin University of Science and Technology inaugurated the seminar and delivered a talk on “*Korovkin-type Theorems*”. The talks were very informative and interactive. As per the feedback collected from the participants the seminar was rated as excellent in its quality of talks topics covered and the local hospitality provided.

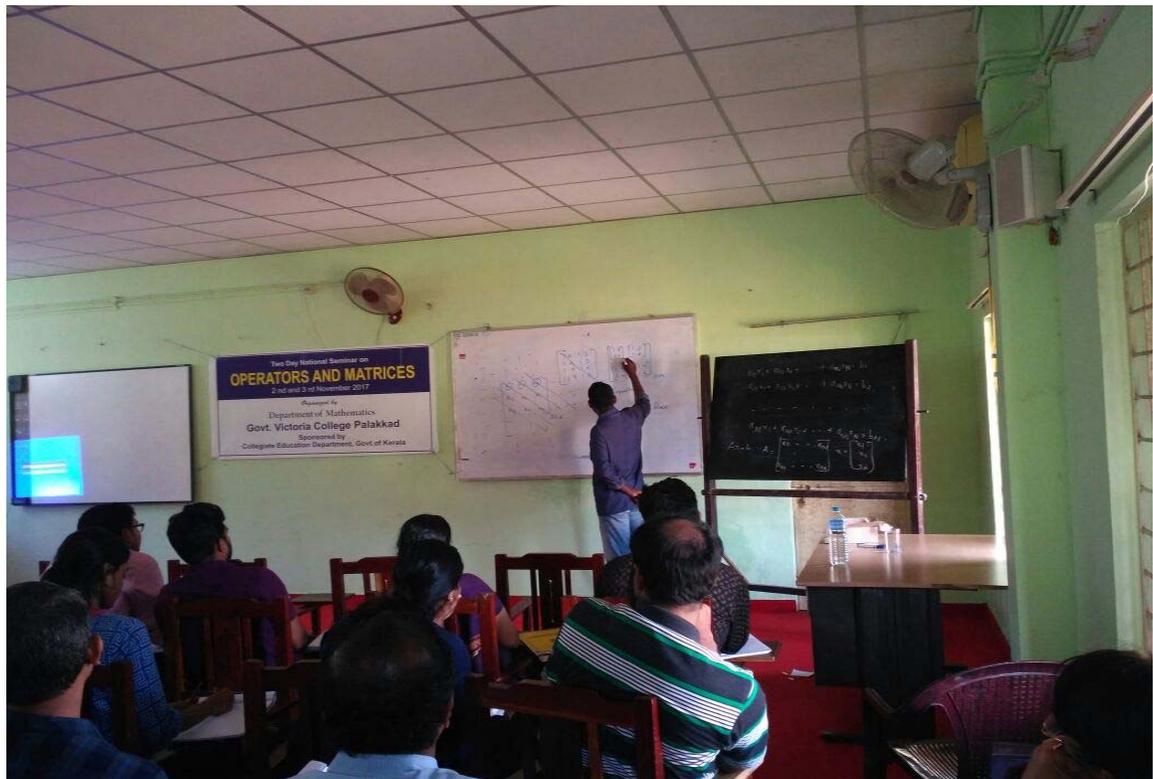
Schedule of the seminar is the following.

**TWO-DAY NATIONAL SEMINAR ON
OPERATORS AND MATRICES**

Registration: November-02, 8.30-9.00 AM

Inauguration: 9.00 AM

| TIME DATE | 9.30AM - 11.00 AM | 11.15 AM - 12.45 PM | 1.45 PM - 3.15 PM | 3.30 PM - 5.00 PM |
|----------------------|---|--|--|--|
| 02-11-2017 | <p><i>“Korovkin-type Theorems”</i></p> <p>Dr. V.B. Kiran Kumar Dept. of Mathematics CUSAT Cochin.</p> | <p><i>“Infinite Matrices”</i></p> <p>Dr. G. Krishnakumar BJM Govt. College Chavara Kollam</p> | <p><i>“Infinite Matrices”</i> <i>Continued...</i></p> <p>Dr. G. Krishnakumar BJM Govt. College Chavara Kollam</p> | <p><i>“Entropy Numbers of Banach space Operators”</i></p> <p>Dr. K.P. Deepesh Govt. Brennen College Thalassery</p> |
| 03-11-2017 | <p><i>“Entropy Numbers of Banach space Operators”</i> <i>Continued...</i></p> <p>Dr. K.P. Deepesh Govt. Brennen College Thalassery</p> | <p><i>“Frame Operators on Hilbert Spaces”</i></p> <p>Dr. T.C. Easwaran Nambudiri Govt. Brennen College Thalassery</p> | <p><i>“Korovkin-type Theorems”</i> <i>Continued...</i></p> <p>Dr. V.B. Kiran Kumar Dept. of Mathematics CUSAT Cochin.</p> | <p><i>“Frame Operators on Hilbert Spaces”</i> <i>Continued...</i></p> <p>Dr. T.C. Easwaran Nambudiri Govt. Brennen College Thalassery</p> |



Coordinator.

**DEPARTMENT OF SANSKRIT
GOVT. VICTORIA COLLEGE, PALAKKAD**

REPROT OF TWO DAY NATIONAL SEMINAR

The Department of Sanskrit, Govt. Victoria College, Palakkad, organized a two day national seminar on '**Saundaryasastracintakal: Caritram Varthamanam Samipanam**' from 23rd to 24th November 2017 with the sponsorship of Directorate of Collegiate Education, Govt. of Kerala. Dr. Suma Parappattoli Co-Ordinate the programme by the assistance of the assistant co-ordinator Dr.Jilsha A and the organizing committee Members, Nisha V.N , Nisha R and Uma C.N.

The inaugural function presided by Sri. V.Premkumar, Principal in charge, Govt. Victoria College, Dr. C.V. Sreeranjithkumar, IQAC co-ordinator; Smt. Ajitha K, HOD of Malayalam, felicitate the function at 9.30 AM on 23rd November 2017.

Session Started at 10 AM. Key Note Address presented by Dr.C.Rajendran, Former HOD, Dept. of Sanskrit, University of Calicut, from 10 AM to 11.30 AM. After that Dr. P.V.Narayanan Associate,Prof,SSUS, Payyannur Centre, presented a paper on *Samskrta Saundaryasastram: Adhistanangal Atarukal* from 11.30 AM to 1 P.M. During the Session two Dr.V R.Muraleedharan,Associate.Prof& HOD SSUS, Kalady, presented a paper on *Bhasha Sahityam Saundaryam*, from 1.30 PM to 3 PM. Then Dr.N.K.Sundareswaran Associate.Prof&HOD University Of Calicut, presented a paper on *Bharatiyasaundaryasamiksha:Samskrta Kavyasastrangalilude Oru Paryavekshanam* from 3 PM to 4.30PM.

In the Second Day on 24th November 2017 the morning session was handled by Dr. T S Ajitha Asst.Prof. Sre Achyuta Menon Memmorial Govt.College Kuttanellur From 9.30 A. M to 11.A.M in *Katalazhangalile Dwaniyidangal*. Then Dr. Swpna Sreenivasan Asst Prof.Govt. Women's College Tvm Presented a Paper on *Samskarapathanam:Sindhantavum Prayogavum, Indian Sahacharyathil* From 11A.M to12.30 P.M. The Participants were interactively took part in all these presentations. In the afternoon session from 1.30 PM to 3 P.M. Dr.P K Madhavan,Rtd Prof ,Govt. Victoria College Palakkad Presented a Paper on *Saundayam Kavyattilum Natyattilum*. Then Dr.S Radha, Rtd. Principal, Rashtriya Samskrta Samsthan,Srngeri, presented a paper on *Anauchityadrte Nanyad Rasabhangasya Karanam* from 3.00 P.M to 4.30.P.M.

The participants were interactively took part in all these sessions. Finally we arrange a valedictory function Inaugurated by Dr.P.K.Madhavan, in which participants gave their feedback and certificates are distributed to the participants.

തമ്പുരാൻ 24, ഓഗസ്റ്റ് കാലത്ത് 9.30 - 12.30

- അദ്ധ്യക്ഷൻ** : **ഡോ. പി. മുരളി** (മുൻ മലയാള വിഭാഗം മേധാവി, തവ വിക്ടോറിയ കോളേജ്)
- പ്രബന്ധാവതരണം** : **ഡോ. അജിത. ഡി. എസ്.** (അസി. പ്രൊഫസർ, സംസ്കൃത വിഭാഗം, ശ്രീ. വി അച്യുത മോനോൻ തവ. കോളേജ്, കൂട്ടനല്ലൂർ) **കളോഴങ്ങളിലെ ധ്വനിയടങ്ങൽ**
- പ്രബന്ധാവതരണം** : **ഡോ. സ്വപ്ന ശ്രീനിവാസൻ** (അസി. പ്രൊഫസർ, മലയാള വിഭാഗം, തവ വിമൻസ് കോളേജ്, തിരുവനന്തപുരം) **സംസ്കാര പഠനം : സിദ്ധാന്തവും പ്രയോഗവും, ഇന്ത്യൻ സാഹചാര്യത്തിൽ**

അനുബന്ധ പ്രബന്ധങ്ങൾ നമ്പി : **ഡോ. ഉമ സി. എൻ**

1.00 - 4 മണി
അദ്ധ്യക്ഷൻ : **ഡോ. എ. സ്വാമിനാഥൻ** (നിട്ട. പ്രൊഫസർ, തവ വിക്ടോറിയ കോളേജ്)

പ്രബന്ധാവതരണം : **ഡോ. പി. കെ. മായവൻ** (മുൻ സംസ്കൃത വിഭാഗം മേധാവി തവ വിക്ടോറിയ കോളേജ്) **സൗന്ദര്യം-കാവ്യത്തിലും നാട്യത്തിലും**

പ്രബന്ധാവതരണം : **ഡോ എസ്. മായ** (നിട്ട. പ്രിൻസിപ്പാൾ, ഷുംഗേരി ക്യാമ്പസ് രാഷ്ട്രീയ സംസ്കൃത സംസ്ഥാൻ) **അനൗചിത്യമുതേ നാനൃദ് രസഭംഗസ്യ കാരണം**

അനുബന്ധ പ്രബന്ധങ്ങൾ നമ്പി : **വിശ്വാസ്**

സമാപനസമ്മേളനം

- (4 മണി)
സ്വാഗതം : **ഡോ. ജി.ജി.എ**
അദ്ധ്യക്ഷൻ : **ഡോ. എ. സ്വാമിനാഥൻ**
ഉദ്ഘാടനം : **ഡോ. പി. കെ. മായവൻ** (മുൻ സംസ്കൃത വിഭാഗം മേധാവി, തവ. വിക്ടോറിയ കോളേജ്)

അവലോകനം
സർട്ടിഫിക്കറ്റ് വിതരണം
നമ്പി : **ഡോ. സുമ പാപ്പട്ടോളി**

അനുബന്ധ പ്രബന്ധാവതരകൾ
ഡോ. എം. സത്യൻ (അസി. പ്രൊഫസർ, തവ. സംസ്കൃത കോളേജ്, പട്ടാമ്പി)
മിനി. ടി.കെ. ! അസി. പ്രൊഫസർ, തവ. സംസ്കൃത കോളേജ്, തിരുവനന്തപുരം)
മീനാക്ഷിമുഖർ കെ. അസി. പ്രൊഫസർ, എൻ.എസ്.എസ്. കോളേജ്, മഞ്ചേരി)
നരസിനാഥൻ അസി. പ്രൊഫസർ, തവ. പ്രബന്ധ കോളേജ്, തലശ്ശേരി)
സുജാതാ അസി. പ്രൊഫസർ, എൻ.എസ്.എസ്. കോളേജ്, നെന്മാറ)
കെ. എ. മിനിമി അസി. പ്രൊഫസർ, മായാൻ മേരീസ് കോളേജ്, തൃശ്ശൂർ)
ഡോ. ഗി.ജി.എസ്. അസി. പ്രൊഫസർ, തവ. കോളേജ്, മലപ്പുറം)
ലിഖാകുമാരി പി. (അസി. പ്രൊഫസർ, തവ. സംസ്കൃത കോളേജ് പട്ടാമ്പി)
കെ. എസ്. നാരായണൻ (അസി. പ്രൊഫസർ, ആലുവ യു.സി. കോളേജ്)
ഡോ. ജി.ജി.ജോർജ്ജ് (അസി. പ്രൊഫസർ, മഹാരാജാസ് കോളേജ്, എറണാകുളം)



സംസ്കൃതവിഭാഗം
ഗവൺമെന്റ് വിക്ടോറിയ കോളേജ്, പാലക്കാട്



ദ്വിദിന ദേശീയ സെമിനാർ
2017 തമ്പുരാൻ 23,24 കാളിദാസ പാർക്ക്
സൗന്ദര്യശാസ്ത്രചിന്തകൾ
പരിത്രം വർത്തകാതം സമീപം

സമാഹൃതം.
 വിവിധതരം സിദ്ധാന്തങ്ങളിൽ ലീന
 ഭാവത്തിലായ ഭാരതീയ നിരൂപാടുകൾ,
 അപരിചിതമായ സൗന്ദര്യശാസ്ത്രചിന്തയുടെ
 ഉന്നത പാഠ്യം തിരിച്ചറിയൽ, കവിത
 സാരകം മുതലായ കലാസൃഷ്ടികളോട്
 ബന്ധമുള്ള പ്രതികരണം തുടങ്ങിയവ
 യുടെ സൂക്ഷ്മ പഠനത്തിലുള്ള
 വിശകലനവും പർവ്വതമാണ് സൗന്ദര്യ
 ശാസ്ത്രചിന്തകൾ : ചരിത്രം
 വർത്തമാനം സമീപനം എന്ന
 ഈ സെമിനാർ ലക്ഷ്യമാക്കുന്നത്.
 കോളേജ് വിദ്യാഭ്യാസ വകുപ്പിന്റെ
 ധനസഹായത്തോടെ 2017 നവംബർ 23,24
 തീയതികളിൽ തമ്പ വീക്ടോറിയ കോളേജ്
 സംസ്കൃത വിഭാഗം സംഘടിപ്പിക്കുന്ന
 ഈ വിവിധതരം സെമിനാറിലേക്ക്
 താങ്കളെ ഹൃദയപൂർവ്വം സ്വാഗതം ചെയ്യുന്നു.



ശ്രീ. വി. പ്രേംകുമാർ
 (പ്രിൻസിപ്പാൾ ഇൻചാർജ്)

ഡോ. സുമ പരപ്പോളി
 (വകുപ്പധ്യക്ഷ, കോ-ഓർഡിനേറ്റർ)

ഡോ. ജി.ജി.എ
 (അസി.കോ-ഓർഡിനേറ്റർ)

അദ്ധ്യക്ഷ സമിതി
 നി.ജ.വി.എൻ, നി.ജ.ആർ, ഡോ.ഉമ സി.എൻ.

നവംബർ 23 വ്യാഴം കാലത്ത് 9.30
ഉദ്ഘാടനസമ്മേളനം

- പ്രാർത്ഥന
- സ്വാഗതം : **ഡോ. സുമ പരപ്പോളി**
(വകുപ്പധ്യക്ഷ, സംസ്കൃത വിഭാഗം)
- അദ്ധ്യക്ഷൻ : **ശ്രീ. വി. പ്രേംകുമാർ**
(പ്രിൻസിപ്പാൾ, ഇൻചാർജ്,
തമ്പ. വീക്ടോറിയ കോളേജ്)
- ഉദ്ഘാടനം : **ഡോ. സി. രാജേന്ദ്രൻ**
(മുൻ സംസ്കൃത വിഭാഗം മേധാവി,
കാലിക്കറ്റ് സർവ്വകലാശാല)
- ആശംസ : **ഡോ. സി. വി. ശ്രീരഞ്ജിത്ത് കുമാർ**
(ഐ.ക്യൂ.എ.സി കോ- ഓർഡിനേറ്റർ)
: **അജിത. കെ**
(വകുപ്പധ്യക്ഷ, മേന്മാള വിഭാഗം)
- നന്ദി : **ഡോ ജി.ജി.എ**
(അസി.കോ- ഓർഡിനേറ്റർ)
- 10-1 മണി
- അദ്ധ്യക്ഷൻ : **വി വിജയകുമാർ**
(അസോസിയേറ്റ് പ്രൊഫസർ, ഫിസിക്സ്
വിഭാഗം തമ്പ. വീക്ടോറിയ കോളേജ്)
- മുഖ്യ പ്രബന്ധാവതരണം : **ഡോ. സി. രാജേന്ദ്രൻ**
(മുൻ സംസ്കൃത വിഭാഗം മേധാവി,
കാലിക്കറ്റ് സർവ്വകലാശാല)
സൗന്ദര്യശാസ്ത്രം : സമസ്തകളും
സമീപനങ്ങളും

- പ്രബന്ധാവതരണം : **ഡോ. പി. വി. നാരായണൻ**
(വകുപ്പ് മേധാവി, സംസ്കൃത സാഹിത്യം,
എസ്.എസ്.യു.എസ്. പള്ളൂർ)
സംസ്കൃത സൗന്ദര്യശാസ്ത്രം
അധിഷ്ഠാനങ്ങൾ അഭ്യേകൻ)
- നന്ദി : **നി.ജ. വി. എൻ**
- 1.30 - 4.00 മണി
- അദ്ധ്യക്ഷൻ : **ഡോ. ഉ. മയൻ**
(പ്രിൻസിപ്പാൾ വി.ടി.ബി.കോളേജ്, മണ്ണൂർ)
- പ്രബന്ധാവതരണം : **ഡോ. വി. ആർ. മുരളീധരൻ**
(വകുപ്പ് മേധാവി, സംസ്കൃത സാഹിത്യം)
എസ്.എസ്.യു.എസ്. കാങ്ങി)
ഭാഷ സാഹിത്യം സൗന്ദര്യം
- പ്രബന്ധാവതരണം : **ഡോ. എൻ. കെ. സുന്ദരമുഖൻ**
വകുപ്പ് മേധാവി, സംസ്കൃത വിഭാഗം
കോഴിക്കോട് സർവ്വകലാശാല)
ഭാരതീയ സൗന്ദര്യശാസ്ത്രം
സംസ്കൃത കാവ്യശാസ്ത്രങ്ങളിലും
മറ്റു പണ്ഡിതന്മാരും
- അനുബന്ധ പ്രബന്ധങ്ങൾ
- നന്ദി : **നി.ജ. ആർ**

കാമദാസ സമാ

സംസ്കൃതവിഭാഗം, ഗവ : വിക്ടോറിയ കോളേജ്,
പാലക്കാട്

ദ്വിദിന സ്മരണയ്ക്കായ സെമിനാർ
സംസ്കൃതശാസ്ത്രജ്ഞന്മാർ-
ചരിത്രം, സാഹിത്യം, സാമൂഹികം
2019-2020



A national seminar on Research application of Secondary Data in Commerce and Management has been organised on 23th, 24th and 25th November by the department coordinated by Mr. Sankaran U M, Asst. Professor of Commerce. PG students from the college, faculties from other colleges etc. participated. There were interactive sessions handled by Dr. Pankunni, Dr. Rajithakumar, Dr. Saji etc. There were many paper presentations by research scholars.



GOVT VICTORIA COLLEGE,PALAKKAD

DEPT OF STATISTICS

Report of Two day National workshop on ‘Statistical Data Analysis Using R’

4-5 December 2017

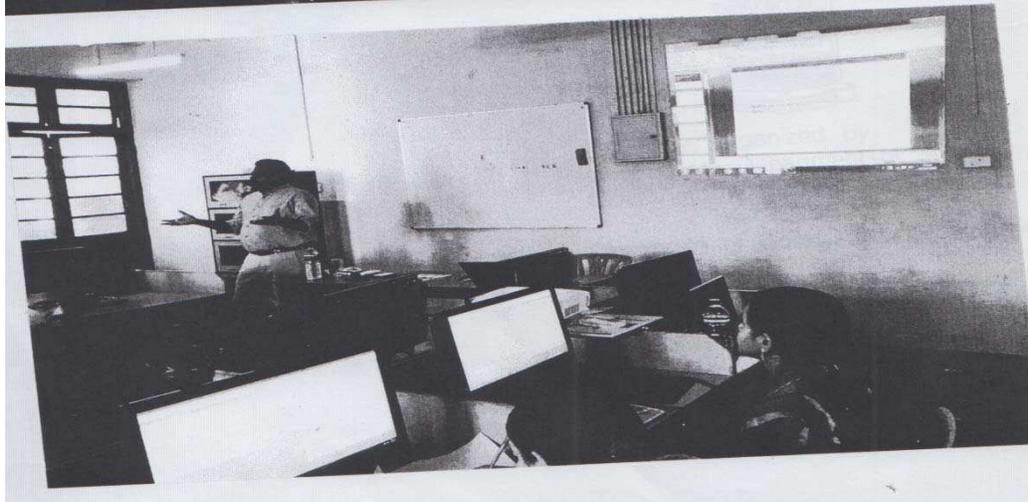
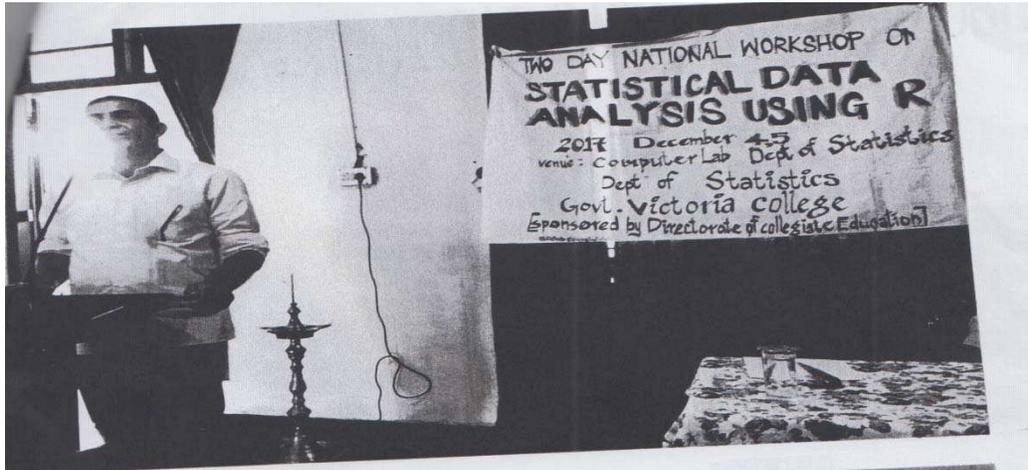
The post graduate Dept of Statistics, Govt Victoria College, Palakkad has organized a two day National workshop on Statistical Data Analysis using R on 4th and 5th December 2017 with the sponsorship of Directorate of Collegiate Education, Govt of Kerala. The venue was the computer lab of Dept of Statistics. The workshop was lead by eminent faculties in the area, Prof(Retd) Dr Raju N, Dept of Statistics, University of Calicut and Dr Joby K Jose, Assistant Professor, Kannur University. The participants include faculties from different areas of Kerala and research scholars from other states.

The inaugural ceremony started on 4th December 2017 9AM at smart room of Dept of Statistics. Prof V Premkumar, the Principal, Govt Victoria College presided the function followed by the inaugural talk of Prof(Retd) Dr Raju N, University of Calicut. Dr Jayaraman P.M ,IQAC Member Govt Victoria College delivered felicitation to the program.

Sessions of the first day started at computer lab, Dept of Statistics on 09.30 A.M by Prof(Retd) Dr Raju N giving an introduction to R and its importance. The participants were actively engaged in learning the new technology. The afternoon Session started at 01.30 P.M. The session was taken by Dr Joby K Jose. He explained the statistical distributions in R and how the different probability distribution can be tabulated using R.A variety of Statistical tests was discussed and demonstrated them through R. It was the end of the first day in which participants were actively engaged in doubt clearing with the resource persons.

The second day schedule started at 09.30 A.M .Regression analysis using R was the topic and Prof (Retd) Dr Raju N has given a most effective session. Afternoon session was handled by Dr Joby K Jose by delivering the multivariate analysis in R. The sessions were energetic and very informative.

The valedictory session was at 04.30 P.M. Dr K R Leena, Associate Professor,Dept of Botany Govt Victoria ,College Palakkad presented the memento to the resource persons and distributed certificates to the participants.



GOVT VICTORIA COLLEGE,PALAKKAD

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REGISTRATION FORM

Name:

Designation:

Institution /Organization:

Mailing Address:

.....

.....

E-mail:

Phone/Mobile :

Date:

Signature:

Your participation may please be intimated to
DIVYA A
9746967333
E-mail : gvcstatistics@gmail.com

TWO-DAY NATIONAL WORKSHOP ON
STATISTICAL DATA ANALYSIS USING R



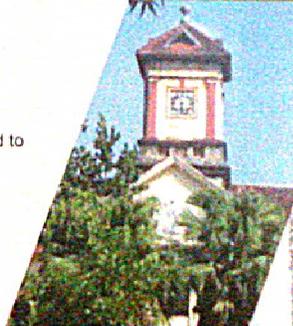
2017 December 04-05

Venue : Computer Lab, Department of Statistics
Govt Victoria College, Palakkad



Organized by
Post Graduate Department of Statistics
Govt.Victoria College, Palakkad
Kerala-676001

(Sponsored by Directorate of Collegiate Education, Govt. Of Kerala)





ABOUT THE COLLEGE

Government Victoria College is located in the heart of Palakkad Town. This institution was started in the year 1866 as Rate School and became a Govt. High School in 1877. In 1888 the high school was raised to the rank of Second Grade College and was affiliated to the University of Madras. Currently, the college is affiliated to University of Calicut with 16 UG courses and 10 PG courses in Arts and Science subjects and is recognized as a Centre of Excellence by Govt. of Kerala. The college is re-accredited with 'A' Grade by NAAC. It is spread over a campus of 25 acres with a number of heritage buildings. The clock tower, the popular college maidan with its Victorian giant tree and the towering Sri. M. Krishnan Nair Gate, are just a few major attractions of this college.

ABOUT THE DEPARTMENT

The Department of Statistics was established in 1957. It offers PG Course in Statistics and subsidiaries in various disciplines. Several of its Alumni are well placed in government as well as in private sectors. The department is providing consultancy services in Statistical data analysis, Statistical Software training and Clarification of Statistical concepts. The department was successful in the value addition of students in transforming them to the knowledge assets of the society.

Sir/Madam,

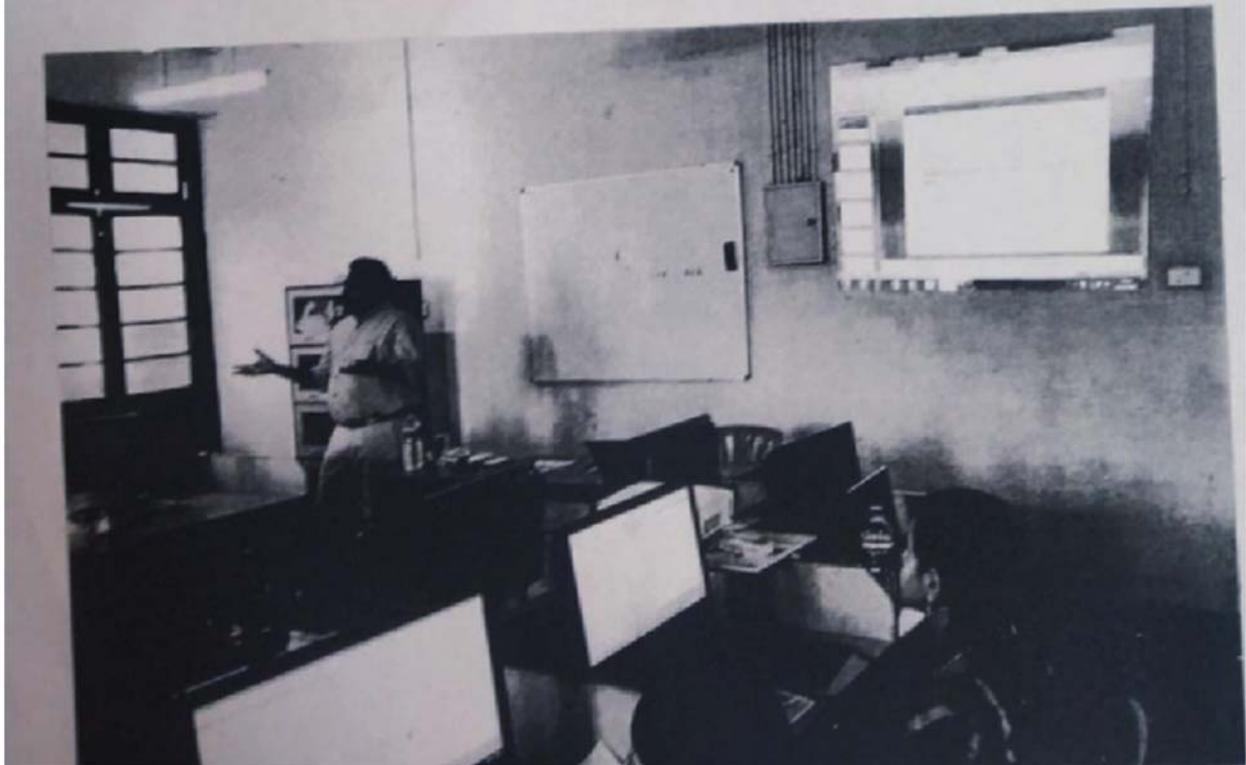
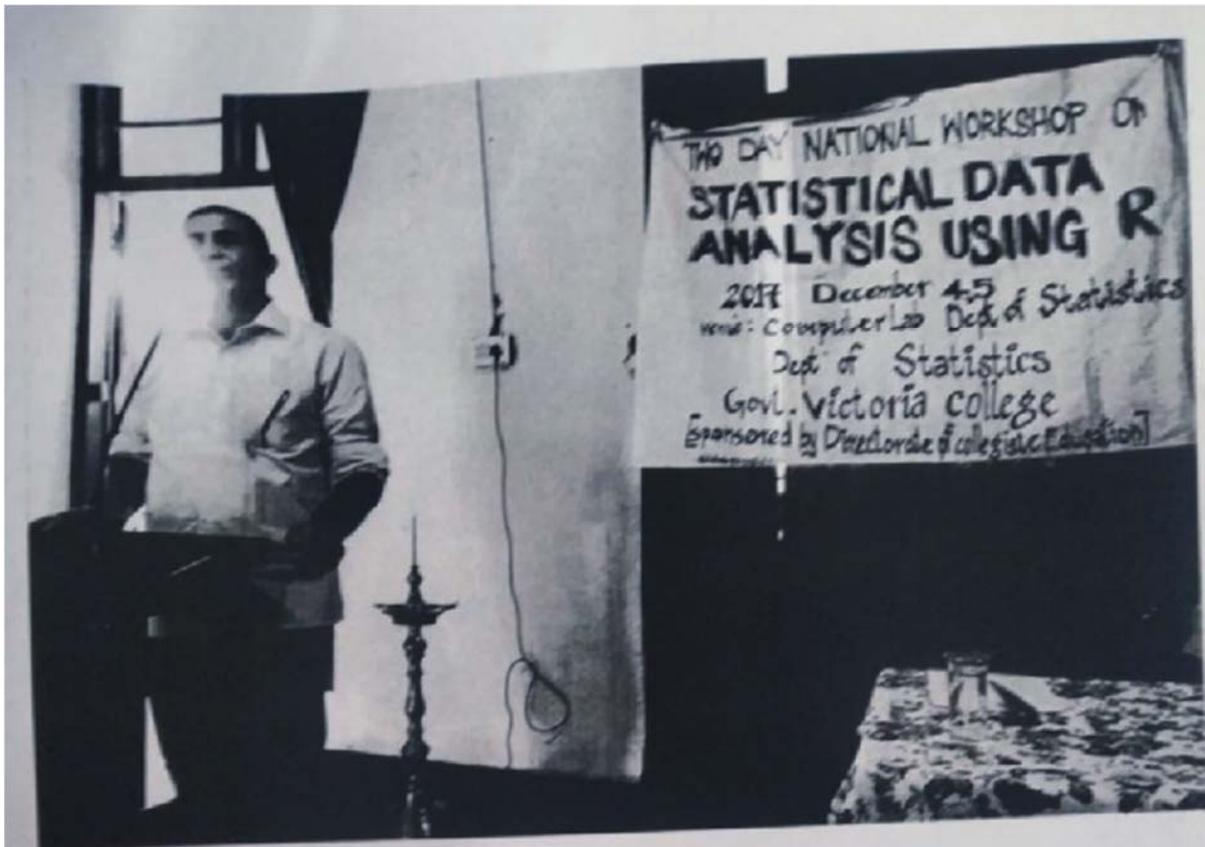
The Department of Statistics, Govt. Victoria College, Palakkad is organizing a Two-Day National Workshop on "Statistical Data Analysis Using R" on 4th and 5th December 2017 with the sponsorship of the Directorate of Collegiate Education, Government of Kerala Prof. Dr. Raju. N. (Head) Dept. of Statistics University of Calicut and Dr. Joby K. Jose Asst. Prof. University of Kannur will be the resource persons.

The workshop is mainly intended to equip the teachers, students and research scholars with practical knowledge in R software. As the number of workshop participants is limited, applicants should submit the registration form as soon as possible (on or before 2017 November 27th). Participation from your esteemed institution is earnestly solicited.

Prof.V. Premkumar
Principal

Simi Thomas
HOD

Divya. A
Co-ordinator





Whither Campus,

Towards an Apolitical Academia?

Conceived as a self-reflexive and self-critical interrogation by one of the oldest colleges in Kerala, the seminar queries whether today's campuses are moving towards an apolitical complacency. The fundamental question of the seminar focuses on the centrality of campus in the society, its power to intervene in the formation of the society and its role as an agency of progressive change in the contemporary Indian scenario. Some other pertinent questions which concern the nature, trajectories and thrust areas of academic work in our campuses are:

How far are the Indian campuses carrying forward the cause of rational thinking, scientific temperament, democratic values and approach, and a sense of compassionate understanding? How do campuses negotiate the existence of divisions on the basis of gender, caste and class? How do they promote the idea of equitable representation of those who are poorly represented or un-represented? Is the academic community losing its crucial and obligatory capacity to resist and respond? Who decides the 'what' and 'how' of learning and how are negotiations in syllabi, courses and evaluation accomplished in these institutions? Are we letting careerism, complacency and conformity to be the norm, lately?

These, among many such others, are the questions we are going to engage ourselves with in the seminar. In one sense, it is an academic audit, which, we think, all centers of learning should take on, every now and then.

Come; let us ask ourselves the bitter questions!

Dr. Elsamma Joseph Arackal

Ms. PP Manjula

Principal, GVC, Palakkad

Head of the Department

Dr. Najeeb PM

Seminar Coordinator (9447774510)

The PG and Research Department of English
Government Victoria College
Palakkad-678001

Two Day National Seminar on

Whither Campus,

Towards an Apolitical Academia?

1-2 November 2017

College Seminar Hall

Sponsored by

Directorate of Collegiate Education

Thiruvananthapuram, Kerala

1 November 2017

9.00 to 9.30 am- Registration

9.30 to 11.00 am- Inaugural Session

Welcome: Ms. Manjula P.P

Head of the Dept. of English, GVC, Palakkad

Presidential address: Dr. Elsamma Joseph Arackal

Principal, GVC, Palakkad

Seminar Concept: Dr. Najeeb. P.M

Assistant Professor of English, GVC, Palakkad

Inaugural Address: *Politics In Campus: Rationalism Out, Disbelief In*

Prof. A Sahadevan,

MASCOM, Kottayam

Vote of Thanks: Ms. Maya Nair

Assistant Professor of English, GVC, Palakkad

11.00 am to 11.15 am: Tea

11.15 am to 12.45 pm : Plenary One/Key Note

RESISTING DEPOLITICIZATION: Reconstituting Campuses as “Communities of Learning”

Dr. Milind Brahme, IIT Madras

12.45 pm to 1.30 pm: Lunch

1.30 pm to 3.00 pm: Plenary Two

Outsider Within?

Anecdotes from Public Lives of Dalit Women

Dr. Rekha Raj

Programme Manager in Women's Rights

Amnesty International India

3.00 pm to 3.15 pm: Tea

3.15 pm to 5.00 pm : Paper Presentations

2 November 2017

9.30 to 11.00 am: Plenary Three

Campus Democracy and Politics of Opposition: Reflections on the Recent Assertions

Sachin N

Department of English

Dyal Singh College, University of Delhi

11.00 am to 11.15 am: Tea Break

11.15 am to 12.45 pm : Plenary Four

Campuses in Kerala in Two Generations: A Brief Reality Check

Dr. Sherrif. K.M

Department of English, University of Calicut

12.45 pm to 1.30 pm: Lunch

1.30 pm to 3.00 pm: Plenary Five

Pleasure as Resistance: On Discipline, Bodies and Kerala Campuses

Dileep Raj

Department of Philosophy

Government Brennan College, Thalassery

3.00 pm to 3.15 pm: Tea

3.15 pm to 4.30 pm : Paper Presentations

4.30 pm to 5.00 pm : Closing Ceremony

ദേശീയ ശിൽപശാല ഇന്നു മുതൽ

പാലക്കാട് • ഗവ.വിക്ടോറിയ
കോളജ് ഗവേഷക ജന്തുശാസ്ത്ര
വിഭാഗത്തിന്റെ ദേശീയ ശിൽപ
ശാല ഇന്നു മുതൽ 22 വരെ
കോളജിൽ നടക്കും. ഡോ
.ആർ.രാജേന്ദ്രൻ ഉദ്ഘാടനം ചെയ്യും.

ശിൽപ്പശാല ഇന്ന് തുടങ്ങും

പാലക്കാട് > ഗവ. വിക്ടോറിയ കോളേജിലെ ബിരുദാനന്തര ബിരുദ ഗവേഷക ജന്തുശാസ്ത്ര വിഭാഗം 20, 21, 22 തീയതികളിലായി സാംക്രമികരോഗങ്ങൾ വർത്തമാനകാല സ്ഥിതിയും ഭാവി കാല വീക്ഷണങ്ങളും എന്ന വിഷയത്തിൽ ദേശീയ ശിൽപ്പശാല സംഘടിപ്പിക്കുന്നു. നാഷണൽ സെന്റർ ഫോർ ഡിസീസ് കൺട്രോൾ(എൻസിഡിസി) കലിക്ട് അസിസ്റ്റന്റ് ഡയറക്ടർ ഡോ. ആർ രാജേന്ദ്രൻ ഉദ്ഘാടനം ചെയ്യും. വിദഗ്ധരുടെ പ്രബന്ധാവതരണവും ചർച്ചകളും ഉണ്ടാകും.





P.G. & RESEARCH DEPARTMENT OF ZOOLOGY
GOVT. VICTORIA COLLEGE PALAKKAD
THREE DAY NATIONAL WORKSHOP
ON
VECTOR BORNE DISEASES:
PRESENT SCENARIO AND FUTURE PERSPECTIVES
20, 21 & 22 NOVEMBER 2017, VENUE: EDUSAT ROOM
COLLEGIATE EDUCATION DEPARTMENT
GOVT. OF KERALA

Prof. RAJENDRAN
Dr. R. RAJENDRAN
Asst. Director, NCDC, Calicut
Dr. C.V. SREERAJITH KUMAR
H.O.D., ZOOLOGY







പാലക്കാട് എൻജിങ് അസോസിയേഷൻ ജില്ലാ പ്രവർത്തക സമ്മേളനം സംസ്ഥാന വൈസ് പ്രസിഡന്റ് ബി. മോഹനചന്ദ്രൻ ഉദ്ഘാടനം ചെയ്യുന്നു



വിക്ടോറിയ കോളജ് ജന്തുശാസ്ത്ര വിഭാഗം സംഘടിപ്പിച്ച ദേശീയ സെമിനാർ നാഷനൽ സെന്റർ ഫോർ ഡിസിസ് കൺട്രോൾ അസിസ്റ്റന്റ് ഡയറക്ടർ ഡോ. ആർ.രാജേന്ദ്രൻ ഉദ്ഘാടനം ചെയ്യുന്നു

വിക്ടോറിയയിൽ ദേശീയ സെമിനാർ

പാലക്കാട് • വിക്ടോറിയ കോളജ് ജന്തുശാസ്ത്രവിഭാഗം വിഭാഗം സാക്രമിക രോഗങ്ങളെ കുറിച്ച് ദേശീയ സെമിനാർ സംഘടിപ്പിച്ചു. നാഷനൽ സെന്റർ ഫോർ ഡിസിസ് കൺട്രോൾ അസിസ്റ്റന്റ് ഡയറക്ടർ ഡോ. ആർ.രാജേന്ദ്രൻ ഉദ്ഘാടനം ചെയ്തു.

കുൻഗുനിയ, ഡെങ്കിപ്പനി എന്നിവയിൽ നിന്നു മോചനം നേടാൻ കഴിഞ്ഞിട്ടില്ലെന്നു ശില്പശാല വിലയിരുത്തി.

ഡിഎംഒ ഡോ. കെ.പി.റീത്ത, ഡോ.സി.വി.ശ്രീരഞ്ജിത്കുമാർ, എൻസിഡിസി റിസർച്ച് അസിസ്റ്റന്റ് എം.കെ.മോഹനൻ, രവിന്ദ്രനാഥ് എന്നിവർ പ്രസംഗിച്ചു.

പ്രതിരോധശേഷിയിൽ രാജ്യത്തിന്റെ ശരാശരിയേക്കാൾ മൂന്നിലാണു കേരളമെങ്കിലും മത്ത്. ചി

വായ്പകൾ
കുറഞ്ഞ പലിശ നിരക്കിൽ







-എൻ.ജി.ഒ. അഭി

പാലക്കാട്: സ്റ്റാർക്കിലെ അപാകം പരിഹരിക്കണമെന്ന് എൻ.ജി.ഒ. അസോസിയേഷൻ ജില്ലാ പ്രവർത്തകസമ്മേളനം ആവശ്യപ്പെട്ടു. കെ.പി.എം. റീജൻസി ഹാളിൽ നടന്ന സമ്മേളനം അസോസി

യേഷൻ സംസ്ഥാന വൈസ് പ്രസിഡൻ്റ് ബി. മോഹനചന്ദ്രൻ ഉദ്ഘാടനം ചെയ്തു.

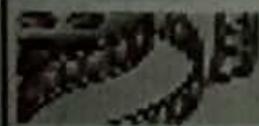
ജില്ലാപ്രസിഡൻ്റ് കെ. മണികണ്ഠൻ അധ്യക്ഷനായി. സംസ്ഥാന സെക്രട്ടേറിയറ്റം ഗങ്ങളായ ടി.ജി. കുട്ടപ്പൻ,

ശില്പശാല

പാലക്കാട്: സാംക്രമികരോഗങ്ങളും അവ പടരുന്ന രീതിയും വിഷയമായി ഗവ. വികോദിയ കോളേജ് ബിരുദാനന്തരബിരുദജന്തുശാസ്ത്രവിഭാഗം ശില്പശാല. ശില്പശാലയുടെ രണ്ടാം ദിനത്തിൽ ചാണ്ടിപുര വൈറസിനെക്കുറിച്ച് തിരുവനന്തപുരം രാജീവ് ഗാന്ധി സെൻറർ ഫോർ ബയോടെക്നോളജിയിലെ ശാസ്ത്രജ്ഞൻ ഡോ. ജോൺ ബി. ജോൺസൺ ക്ലാസെടുത്തു.

സ്ക്രബ് ടൈഫസിനെക്കുറി

ച്ച് മധുരൈ സെൻറർ ഫോർ റിസർച്ച് ഇൻ മെഡിക്കൽ എൻഡോമോളജിയിലെ ശാസ്ത്രജ്ഞൻ ഡോ. പി. ഫിലിപ്പ് സാമുവൽ ക്ലാസെടുത്തു. കൊതുകുനിവാരണത്തെക്കുറിച്ച് മടപ്പള്ളി ഗവ. കോളേജിലെ അസി. പ്രൊഫസർ ഡോ. പി.കെ. സുമോദൻ വിശദീകരിച്ചു. എ. ജനീഷ്, ഡോ. പി.വി. ലെയോൺ, ഡോ. ആർ. നിഷി തുടങ്ങിയവർ സംസാരിച്ചു. ബുധനാഴ്ച ശില്പശാല സമാപിക്കും.



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PHYTOCHEMISTRY

According to the World Health Organization, a medicinal plant is any plant which, in one or more of its organs, contains substances that can be used for therapeutic purposes, or which are precursors for chemo-pharmaceutical semi synthesis. Such a plant will have its parts including leaves, roots, rhizomes, stems, barks, flowers, fruits, grains or seeds, employed in the control or treatment of a disease condition and therefore contains chemical components that are medically active. These non-nutrient plant chemical compounds or bioactive components are often referred to as phytochemicals ('phyto-'from Greek - phyto meaning 'plant') or phytoconstituents and are responsible for protecting the plant against microbial infections or infestations by pests (Abo et al., 1991; Liu, 2004; Nweze et al., 2004; Doughari et al., 2009). The study of natural products on the other hand is called phytochemistry.

Classes of phytochemicals

1. Alkaloids

These are the largest group of secondary chemical constituents made largely of ammonia compounds comprising basically of nitrogen bases synthesized from amino acid building blocks with various radicals replacing one or more of the hydrogen atoms in the peptide ring, most containing oxygen. The compounds have basic properties and are alkaline in reaction, turning red litmus paper blue. In fact, one or more nitrogen atoms that are present in an alkaloid, typically as 1°, 2° or 3° amines, contribute to the basicity of the alkaloid. The degree of basicity varies considerably, depending on the structure of the molecule, and presence and location of the functional groups (Sarker&Nahar, 2007). They react with acids to form crystalline salts without the production of water (Firn, 2010). Majority of alkaloids exist in solid such as atropine, some as liquids containing carbon, hydrogen, and nitrogen. Most alkaloids are readily soluble in alcohol and though they are sparingly soluble in water, their salts of are usually soluble. The solutions of alkaloids are intensely bitter. These nitrogenous compounds function in the defense of plants

against herbivores and pathogens, and are widely exploited as pharmaceuticals, stimulants, narcotics, and poisons due to their potent biological activities. In nature, the alkaloids exist in large proportions in the seeds and roots of plants and often in combination with vegetable acids. Alkaloids have pharmacological applications as anesthetics and CNS stimulants (Madziga et al., 2010). More than 12,000 alkaloids are known to exist in about 20% of plant species and only few have been exploited for medicinal purposes. The name alkaloid ends with the suffix –ine and plant-derived alkaloids in clinical use include the analgesics morphine and codeine, the muscle relaxant (+)-tubocurarine, the antibiotics sanguinarine and berberine, the anticancer agent vinblastine, the antiarrhythmic ajmaline, the pupil dilator atropine, and the sedative scopolamine. Other important alkaloids of plant origin include the addictive stimulants caffeine, nicotine, codeine, atropine, morphine, ergotamine, cocaine, nicotine and ephedrine. Amino acids act as precursors for biosynthesis of alkaloids with ornithine and lysine commonly used as starting materials.

2. Glycosides

Glycosides in general, are defined as the condensation products of sugars (including polysaccharides) with a host of different varieties of organic hydroxy (occasionally thiol) compounds (invariably monohydrate in character), in such a manner that the hemiacetal entity of the carbohydrate must essentially take part in the condensation. Glycosides are colorless, crystalline carbon, hydrogen and oxygen-containing (some contain nitrogen and sulfur) water-soluble phytoconstituents, found in the cell sap. Chemically, glycosides contain a carbohydrate (glucose) and a non-carbohydrate part (aglycone or genin) (Kar, 2007; Firn, 2010). Alcohol, glycerol or phenol represents aglycones. Glycosides are neutral in reaction and can be readily hydrolyzed into its components with ferments or mineral acids. Glycosides are classified on the basis of type of sugar component, chemical nature of aglycone or pharmacological action. The rather older or trivial names of glycosides usually have a suffix ‘in’ and the names essentially included the source of the glycoside, for instance: Strophanthidin from *Strophanthus*, digitoxin from *Digitalis*, barbaloin from *Aloes*, salicin from *Salix*, cantharidin from *Cantharides*, and prunasin from *Prunus*. However, the systematic names are invariably coined by replacing the “ose” suffix of the parent sugar with “oside”. This group of drugs are usually administered in order to promote appetite and aid digestion. Glycosides are purely bitter principles that are commonly found in plants of the *Genitaceae* family and though they are chemically unrelated but possess the common property of an intensely bitter taste. The bitters act on gustatory nerves, which results in increased flow of saliva and gastric juices. Chemically, the bitter principles contain the lactone group that may be diterpene lactones (e.g. andrographolide) or triterpenoids (e.g. amarogentin). Some of the bitter principles are either used as astringents due to the presence of tannic acid, as antiprotozoan, or to reduce thyroxine and metabolism. Examples include cardiac glycosides (acts on the heart), anthracene glycosides (purgative, and for treatment of skin diseases), chalcone glycoside (anticancer), amarogentin, gentiopicrin, andrographolide, ailanthone and polygalin (Fig. 2). Sarker & Nahar (2007) reported that extracts of plants that contain cyanogenic glycosides are used as flavouring agents in many pharmaceutical preparations. Amygdalin has been used in the

treatment of cancer (HCN liberated in stomach kills malignant cells), and also as a cough suppressant in various preparations. Excessive ingestion of cyanogenic glycosides can be fatal. Some foodstuffs containing cyanogenic glycosides can cause poisoning (severe gastric irritations and damage) if not properly handled (Sarker&Nahar, 2007). To test for O-glycosides, the plant samples are boiled with HCl/H₂O to hydrolyse the anthraquinone glycosides to respective aglycones, and an aqueous base, e.g. NaOH or NH₄OH solution, is added to it. For C-glycosides, the plant samples are hydrolysed using FeCl₃/HCl, and an aqueous base, e.g. NaOH or NH₄OH solution, is added to it. In both cases a pink or violet colour in the base layer after addition of the aqueous base indicates the presence of glycosides in the plant sample.

3. Flavonoids

Flavonoids are an important group of polyphenols widely distributed among the plant flora. Structurally, they are made of more than one benzene ring in its structure (a range of C₁₅ aromatic compounds) and numerous reports support their use as antioxidants or free radical scavengers (Kar, 2007). The compounds are derived from parent compounds known as flavans. Over four thousand flavonoids are known to exist and some of them are pigments in higher plants. Quercetin, kaempferol and quercitrin are common flavonoids present in nearly 70% of plants. Other group of flavonoids includes flavones, dihydroflavons, flavans, flavonols, anthocyanidins, proanthocyanidins, calchones and catechin and leucoanthocyanidins.

4. Phenolics

Phenolics, phenols or polyphenolics (or polyphenol extracts) are chemical components that occur ubiquitously as natural colour pigments responsible for the colour of fruits of plants. Phenolics in plants are mostly synthesized from phenylalanine via the action of phenylalanine ammonia lyase (PAL). They are very important to plants and have multiple functions. The most important role may be in plant defence against pathogens and herbivore predators, and thus are applied in the control of human pathogenic infections (PuupponenPimiä et al., 2008). They are classified into (i) phenolic acids and (ii) flavonoid polyphenolics (flavonones, flavones, xanthenes and catechins) and (iii) non-flavonoid polyphenolics. Caffeic acid is regarded as the most common of phenolic compounds distributed in the plant flora followed by chlorogenic acid known to cause allergic dermatitis among humans (Kar, 2007). Phenolics essentially represent a host of natural antioxidants, used as nutraceuticals, and found in apples, green-tea, and red-wine for their enormous ability to combat cancer and are also thought to prevent heart ailments to an appreciable degree and sometimes are anti-inflammatory agents. Other examples include flavones, rutin, naringin, hesperidin and chlorogenic (Fig. 4).

5. Saponins

The term saponin is derived from *Saponaria vaccaria* (*Quillajasaponaria*), a plant, which abounds in saponins and was once used as soap. Saponins therefore possess 'soaplike' behaviour in water, i.e. they produce foam. On hydrolysis, an aglycone is produced, which is called sapogenin. There

are two types of saponin: steroidal and triterpenoidal. Usually, the sugar is attached at C-3 in saponins, because in most saponins there is a hydroxyl group at C-3. Quillajasaponaria is known to contain toxic glycosides quillajic acid and the saponin senegin. Quillajic acid is stimulatory and senegin is toxic. Senegin is also present in Polygala senega. Saponins are regarded as high molecular weight compounds in which, saponins are also important therapeutically as they are shown to have hypolipidemic and anticancer activity. Saponins are also necessary for activity of cardiac glycosides. The two major types of steroidal saponin are diosgenin and hecogenin. Steroidal saponins are used in the commercial production of sex hormones for clinical use. For example, progesterone is derived from diosgenin. The most abundant starting material for the synthesis of progesterone is diosgenin isolated from Dioscorea species, formerly supplied from Mexico, and now from China (Sarker&Nahar, 2007). Other steroidal hormones, e.g. cortisone and hydrocortisone, can be prepared from the starting material hecogenin, which can be isolated from Sisal leaves found extensively in East Africa (Sarker&Nahar, 2007).

6. Tannins

These are widely distributed in plant flora. They are phenolic compounds of high molecular weight. Tannins are soluble in water and alcohol and are found in the root, bark, stem and outer layers of plant tissue. Tannins have a characteristic feature to tan, i.e. to convert things into leather. They are acidic in reaction and the acidic reaction is attributed to the presence of phenolics or carboxylic group (Kar, 2007). They form complexes with proteins, carbohydrates, gelatin and alkaloids. Tannins are divided into hydrolysable tannins and condensed tannins. Hydrolysable tannins, upon hydrolysis, produce gallic acid and ellagic acid and depending on the type of acid produced, the hydrolysable tannins are called gallotannins or ellagitannins. On heating, they form pyrogallol. Tannins are used as antiseptic and this activity is due to presence of the phenolic group. Common examples of hydrolysable tannins include theaflavins (from tea), daidzein, genistein and glycitein (Fig. 5). Tannin-rich medicinal plants are used as healing agents in a number of diseases. In Ayurveda, formulations based on tannin-rich plants have been used for the treatment of diseases like leucorrhoea, rhinorrhoea and diarrhea.

7. Terpenes

Terpenes are among the most widespread and chemically diverse groups of natural products. They are flammable unsaturated hydrocarbons, existing in liquid form commonly found in essential oils, resins or oleoresins (Firn, 2010). Terpenoids include hydrocarbons of plant origin of general formula $(C_5H_8)_n$ and are classified as mono-, di-, tri- and sesquiterpenoids depending on the number of carbon atoms. Examples of commonly important monoterpenes include terpinen-4-ol, thujone, camphor, eugenol and menthol. Diterpenes (C_{20}) are classically considered to be resins and taxol, the anticancer agent, is the common example. The triterpenes (C_{30}) include steroids, sterols, and cardiac glycosides with anti-inflammatory, sedative, insecticidal or cytotoxic activity. Common triterpenes: amyrins, ursolic acid and oleanic acid sesquiterpene (C_{15}) like monoterpenes, are major components of many essential oils (Martinez et al., 2008). The

sesquiterpene acts as irritants when applied externally and when consumed internally their action resembles that of gastrointestinal tract irritant. A number of sesquiterpene lactones have been isolated and broadly they have antimicrobial (particularly antiprotozoal) and neurotoxic action. The sesquiterpene lactone, palasonin, isolated from *Buteamonosperma* has anthelmintic activity, inhibits glucose uptake and depletes the glycogen content in *Ascaridiagalli* (Fig. 6). Terpenoids are classified according to the number of isoprene units involved in the formation of these compounds.

| Type of terpenoids Number of carbon |
|--|--|--|--|
| Monoterpene | 10 | 2 | Limonene |
| Sesquiterpene | 15 | 3 | Artemisinin |
| Diterpene | 20 | 4 | Forskolin |
| Triterpene | 30 | 6 | a-amyrin |
| Tetraterpene | 40 | 8 | b-carotene |
| Polymeric terpenoid | several | several | Rubber |
| | | | |

8. Anthraquinones

These are derivatives of phenolic and glycosidic compounds. They are solely derived from anthracene giving variable oxidized derivatives such as anthrones and anthranols (Maurya et al., 2008; Firn, 2010). Other derivatives such as chrysophanol, aloe-emodin, rhein, salinosporamide, luteolin (Fig. 7) and emodin have in common a double hydroxylation at positions C-1 and C-8. To test for free anthraquinones, powdered plant material is mixed with organic solvent and filtered, and an aqueous base, e.g. NaOH or NH₄OH solution, is added to it. A pink or violet colour in the base layer indicates the presence of anthraquinones in the plant sample (Sarker&Nahar, 2007).

9. Essential oils

Essential oils are the odorous and volatile products of various plant and animal species. Essential oils have a tendency to evaporate on exposure to air even at ambient conditions and are therefore also referred to as volatile oils or ethereal oils. They mostly contribute to the odoriferous constituents or 'essences' of the aromatic plants that are used abundantly in enhancing the aroma of some spices (Martinez et al., 2008). Essential oils are either secreted either directly by the plant protoplasm or by the hydrolysis of some glycosides and structures such as directly Plant structures associated with the secretion of essential oils include: Glandular hairs (*Lamiaceae* e.g. *Lavandula angustifolia*), Oil tubes (or vittae) (*Apiaceae* e.g. *Foeniculum vulgare*, and *Pimpinella anisum* (Aniseed), modified parenchymal cells (*Piperaceae* e.g. *Piper nigrum* - Black pepper), Schizogenous or lysisgenum passages (*Rutaceae* e.g. *Pinus palustris* - Pine oil. Essential oils have been associated with different plant parts including leaves, stems, flowers, roots or

rhizomes. Chemically, a single volatile oil comprises of more than 200 different chemical components, and mostly the trace constituents are solely responsible for attributing its characteristic flavour and odour (Firn, 2010). Essential oils can be prepared from various plant sources either by direct steam distillation, expression, extraction or by enzymatic hydrolysis. Direct steam distillation involves the boiling of plant part in a distillation flask and passing the generated steam and volatile oil through a water condenser and subsequently collecting the oil in florentine flasks. Depending on the nature of the plant source the distillation process can be either water distillation, water and steam distillation or direct distillation. Expression or extrusion of volatile oils is accomplished by either by sponge method, scarification, rasping or by a mechanical process. In the sponge method, the washed plant part e.g. citrus fruit (e.g., orange, lemon, grape fruit, bergamot) is cut into halves to remove the juice completely, rind turned inside out by hand and squeezed when the secretory glands rupture. The oozed volatile oil is collected by means of the sponge and subsequently squeezed in a vessel. The oil floating on the surface is separated. For the the scarification process the apparatus *Ecuelle a Piquer* (a large bowl meant for pricking the outer surface of citrus fruits) is used. It is a large funnel made of copper having its inner layer tinned properly. The inner layer has numerous pointed metal needles just long enough to penetrate the epidermis. The lower stem of the apparatus serve two purposes; first, as a receiver for the oil; and secondly, as a handle. Now, the freshly washed lemons are placed in the bowl and rotated repeatedly when the oil glands are punctured (scarified) thereby discharging the oil right into the handle. The liquid, thus collected, is transferred to another vessel, where on keeping the clear oil may be decanted and filtered. For the rasping process, the outer surface of the peel of citrus fruits containing the oil gland is skilfully removed by a grater. The 'raspings' are now placed in horsehair bags and pressed strongly so as to ooze out the oil stored in the oil glands. Initially, the liquid has a turbid appearance but on allowing it to stand the oil separates out which may be decanted and filtered subsequently. The mechanical process involves the use of heavy duty centrifugal devices so as to ease the separation of oil/water emulsions invariably formed and with the advent of modern mechanical devices the oil output has increased impressively. The extraction processes can be carried out with either volatile solvents (e.g hexane, petroleum ether or benzene) resulting into the production of 'floral concretes'- oils with solid consistency and partly soluble in 95% alcohol, or non volatile solvents (tallow, lard or olive oil) which results in the production of perfumes. Examples of volatile oils include amygdaline (volatile oil of bitter almond), sinigrin (volatile oil of black mustard), and eugenol occurring as gein (volatile oil of *Geumurbanum*)

10. Steroids

Plant steroids (or steroid glycosides) also referred to as 'cardiac glycosides' are one of the most naturally occurring plant phytoconstituents that have found therapeutic applications as arrow poisons or cardiac drugs (Firn, 2010). The cardiac glycosides are basically steroids with an inherent ability to afford a very specific and powerful action mainly on the cardiac muscle when administered through injection into man or animal. Steroids (anabolic steroids) have been observed

to promote nitrogen retention in osteoporosis and in animals with wasting illness (Maurya et al., 2008; Madziga et al., 2010). Caution should be taken when using steroidal glycosides as small amounts would exhibit the much needed stimulation on a diseased heart, whereas excessive dose may cause even death. Diosgenin and cevadine (from *Veratrumviride*) are examples of plant steroids.

Mechanism of action of phytochemicals

Different mechanisms of action of phytochemicals have been suggested. They may inhibit microorganisms, interfere with some metabolic processes or may modulate gene expression and signal transduction pathways (Kris-Etherton et al., 2002; Manson 2003; Surh 2003). Phytochemicals may either be used as chemotherapeutic or chemo preventive agents with chemoprevention referring to the use of agents to inhibit, reverse, or retard tumorigenesis. In this sense chemo preventive phytochemicals are applicable to cancer therapy, since molecular mechanisms may be common to both chemoprevention and cancer therapy (D'Incalci et al., 2005; Sarkar & Li, 2006). Plant extracts and essential oils may exhibit different modes of action against bacterial strains, such as interference with the phospholipids bilayer of the cell membrane which has as a consequence a permeability increase and loss of cellular constituents, damage of the enzymes involved in the production of cellular energy and synthesis of structural components, and destruction or inactivation of genetic material. In general, the mechanism of action is considered to be the disturbance of the cytoplasmic membrane, disrupting the proton motive force, electron flow, active transport, and coagulation of cell contents (Kotzekidou et al., 2008)

Methods of studying phytochemicals

No single method is sufficient to study the bioactivity of phytochemicals from a given plant. An appropriate assay is required to first screen for the presence of the source material, to purify and subsequently identify the compounds therein. Assay methods vary depending on what bioactivity is targeted and these may include antimicrobial, anti-malarial, anticancer, seed germination, and mammalian toxicity activities. The assay method however should be as simple, specific, and rapid as possible. An *in vitro* test is more desirable than a bioassay using small laboratory animals, which, in turn, is more desirable than feeding large amounts of valuable and hard to obtain extract to larger domestic or laboratory animals. In addition, *in vivo* tests in mammals are often variable and are highly constrained by ethical considerations of animal welfare. Extraction from the plant is an empirical exercise in which different solvents are utilized under a variety of conditions such as time and temperature of extraction. The success or failure of the extraction process depends on the most appropriate assay. Once extracted from the plant, the bioactive component then has to be separated from the co extractives. Further purification steps may involve simple crystallization of the compound from the crude extract, further solvent partition of the co extractives or chromatographic methods in order to fractionate the compounds based on their acidity, polarity or molecular size. Final purification, to provide compounds of suitable purity for such structural

analysis, may be accomplished by appropriate techniques such as recrystallization, sublimation, or distillation.

Extraction of phytochemicals

➤ **Solvent extraction**

Various solvents have been used to extract different phytoconstituents. The plant parts are dried immediately either in an artificial environment at low temperature (50-60°C) or dried preferably in shade so as to bring down the initial large moisture content to enable its prolonged storage life and . The dried berries are pulverised by mechanical grinders and the oil is removed by solvent extraction. The defatted material is then extracted in a soxhlet apparatus or by soaking in water or alcohol (95% v/v). The resulting alcoholic extract is filtered, concentrated in vacuo or by evaporation, treated with HCl (12N) and refluxed for at least six hours. This can then be concentrated and used to determine the presence of phytoconstituents. Generally, the saponins do have high molecular weight and hence their isolation in the purest form poses some practical difficulties. The plant parts (tubers, roots, stems, leave etc) are washed sliced and extracted with hot water or ethanol (95% v/v) for several hours. The resulting extract is filtered, concentrated in vacuo and the desired constituent is precipitated with ether. Exhaustive extraction (EE) is usually carried out with different solvents of increasing polarity in order to extract as much as possible the most active components with highest biological activity.

➤ **Supercritical fluid extraction (SFE)**

This is the most technologically advanced extraction system (Patil&Shettigar, 2010). Super Critical Fluid Extraction (SFE) involves use of gases, usually CO₂, and compressing them into a dense liquid. This liquid is then pumped through a cylinder containing the material to be extracted. From there, the extract-laden liquid is pumped into a separation chamber where the extract is separated from the gas and the gas is recovered for re-use. Solvent properties of CO₂ can be manipulated and adjusted by varying the pressure and temperature that one works at. The advantages of SFE are, the versatility it offers in pinpointing the constituents you want to extract from a given material and the fact that you end product has virtually no solvent residues left in it (CO₂ evaporates completely). The downside is that this technology is quite expensive. There are many other gases and liquids that are highly efficient as extraction solvents when put under pressure (Patil&Shettigar, 2010). a. Coupled SFE-SFC System in which a sample is extracted with a supercritical fluid which then places the extracted material in the inlet part of a supercritical fluid chromatographic system. The extract is than chromatographed directly using supercritical fluid. b. Coupled SFE-GC and SFE-LC System in which a sample is extracted using a supercritical fluid which is then depressurized to deposit the extracted material in the inlet part or a column of gas or liquid chromatographic system respectively. SFE is characterized by robustness of sample preparation, reliability, less time consuming, high yield and also has potential for coupling with number of chromatographic methods.

➤ **Microwave-Assisted extraction**

Patil&Shettigar (2010) reported an innovative, microwave-assisted solvent-extraction technology known as Microwave-Assisted Processing (MAP). MAP applications include the extraction of high-value compounds from natural sources including phytonutrients, nutraceutical and functional food ingredients and pharmaceutical actives from biomass. Compared to conventional solvent extraction methods, MAP technology offers some combination of the following advantages:

1. Improved products, increased purity of crude extracts, improved stability of marker compounds, possibility to use less toxic solvents;

2. Reduced processing costs, increased recovery and purity of marker compounds, very fast extraction rates, reduced energy and solvent usage. With microwave-derived extraction as opposed to diffusion, very fast extraction rates and greater solvent flexibility can be achieved. Many variables, including the microwave power and energy density, can be tuned to deliver desired product attributes and optimize process economics. The process can be customized to optimize for commercial/cost reasons and excellent extracts are produced from widely varying substrates. Examples include, but are not limited to, antioxidants from dried herbs, carotenoids from single cells and plant sources, taxanes from taxus biomass, essential fatty acids from microalgae and oilseeds, phytosterols from medicinal plants, polyphenols from green tea, flavor constituents from vanilla and black pepper, essential oils from various sources, and many more (Patil&Shettigar, 2010).

➤ **Solid phase extraction**

This involves sorption of solutes from a liquid medium onto a solid adsorbent by the same mechanisms by which molecules are retained on chromatographic stationary phases. These adsorbents, like chromatographic media, come in the form of beads or resins that can be used in column or in batch form. They are often used in the commercially available form of syringes packed with medium (typically a few hundred milligrams to a few grams) through which the sample can be gently forced with the plunger or by vacuum. Solid phase extraction media include reverse phase, normal phase, and ion-exchange media. This is method for sample purification that separates and concentrates the analyte from solution of crude extracts by adsorption onto a disposable solid-phase cartridge. The analyte is normally retained on the stationary phase, washed and then evaluated with different mobile phase. If an aqueous extract is passed down a column containing reverse phase packing material, everything that is fairly nonpolar will bind, whereas everything polar will pass through (Patil&Shettigar, 2010).

PHYTOCHEMICAL ANALYSIS (SCREENING TESTS)

1. TESTS FOR ALKALOIDS

Dragendorff's test: To 1 ml of each of the sample solution taken in a test tube few drops of Dragendorff's reagent (potassium bismuth iodide solution) was added. A reddish brown precipitate was observed indicating the presence of alkaloids.

Meyer's test: To 1ml of each of the sample solution few drops of Meyer's reagent (Potassium Mercuric chloride solution) was added. A creamish white precipitate was formed indicating the presence of alkaloids.

Wagner's test: To few ml of each of the sample solution, Wagner's reagent (Iodine in potassium iodide) was added, which resulted in the formation of reddish brown precipitate indicating the presence of alkaloids.

Hager's test: To 1 ml of each of the sample few drops of Hager's reagent (Picric acid) was added, yellow precipitate was formed reacting positively for alkaloids.

Tannic acid test: When few ml of 10% Tannic acid were added to 1ml of each sample, a buff colour precipitate was formed giving positive result for alkaloids.

FeCl₃ test: One drop of FeCl₃ solution was added to each of the test sample, formation of yellow precipitate was resulted reacting positively for alkaloids.

2. TESTS FOR GLYCOSIDES

Raymond's test: Test solution when treated with dinitrobenzene in hot methanolic alkali giving a violet colour

Legal's test: When the test samples were treated with pyridine and sodium nitroprusside solution blood red colour appears
Bromine water test: When treated with bromine water test solution gives yellow precipitate.

Kellar Kiliani test: 1ml of concentrated sulphuric acid was taken in a test tube then 5ml of extract and 2ml of glacial acetic acid with one drop of ferric chloride were added, formation of a blue colour.
Concentrated Sulphuric acid test: Conc. H₂SO₄ was added to test sample which resulted in appearance of reddish colour.

Molisch test: When alpha naphthol and concentrated H₂SO₄ were added to test samples reddish violet ring at junction of two layers was resulted.

3. TESTS FOR TANNINS AND PHENOLIC COMPOUNDS

Ferric chloride test: When few drops of ferric chloride were added to sample solution a blackish precipitate appears.

Gelatin test: When gelatin and water were added to test samples formation of white precipitate was resulted.

Lead acetate: Few ml of test samples were taken in different test tubes followed by the addition of aqueous basic lead acetate. It results in the formation of reddish brown bulky precipitate.

Alkaline reagent: When sodium hydroxide solution was added to the sample solution results in the formation of yellow to red precipitate.

Mitchell's test: Tannins give a water soluble iron–tannin complex with iron and ammonium citrate or iron and sodium tartarate.

Ellagic acid test: When 5% glacial acetic acid and 5% sodium nitrite were added to test samples a muddy niger brown colour appears, which is a positive result for phenols.

4. TESTS FOR FLAVONOIDS

Zinc Hydrochloride reduction test: To test the sample solution for the flavonoids added a mixture of zinc dust and concentrated hydrochloric acid results in red colour.

Lead acetate test: When aqueous basic lead acetate was added to test sample produces reddish brown precipitate.

Ferric chloride test: To few ml of test samples taken separately, few drops of ferric chloride were added which resulted in the formation blackish red precipitate.

Shinoda test (Magnesium hydrochloride reduction test): To the test solution few fragments of magnesium ribbon and concentrated hydrochloric acid were added drop wise reddish to pink colour was resulted. **Alkaline reagent test:** When sodium hydroxide solution was added to the test samples formation of intense yellow colour, which turns to colour less on addition of few drops of dilute acid indicates the presence of flavonoids.

5. TESTS FOR STEROLS

Libermann-Buchard test: when samples were treated with few drops of acetic anhydride, boiled and few drops of concentrated sulphuric acid from the sides of the test tube were added, shows a brown ring at the junction of two layers and the upper layer turns green which shows the presence of steroids.

Salkowski test: Few drops of concentrated sulphuric acid were added to the test samples in chloroform, a red colour appears at the lower layer indicates the presence of sterols.

6. TESTS FOR FATS AND OILS

Stain test: Press the small quantity of each extract between two filter papers, the stain on filter papers indicates the presence of the oils.

Saponification test: Added a few drops of 0.5N alcoholic potassium hydroxide to various extracts with a drop of phenolphthalein separately and heat on water bath for 1-2 hours. Formation of soap or partial neutralization of alkali indicates the presence of oils and fats.

7. TESTS FOR LIGNINS

Labat test: When gallic acid is added to the test sample, it results in the formation of olive green colour.

Furfuraldehyde test: When furfuraldehyde is added to the test sample a red colour appears indicating the presence of lignin.

8. TESTS FOR QUINONES

Alcoholic KOH test: When alcoholic KOH was added to the test samples red to blue colours appear reacting positively for quinones.

9. TESTS FOR SAPONINS

Foam test: 5ml of extract was shaken vigorously to obtain a stable persistent froth. The froth was then mixed with three drops of olive oil and observed for the formation of an emulsion, which indicated the presence of saponins.

Flourescence analysis of extracts

Flourescence analysis of various organic solvent extracts of leaves was studied and the observations are made according to their difference in the colour.

ANTIMICROBIAL ASSAY

An antimicrobial is an agent that kills microorganisms or stops their growth. Antimicrobial medicines can be grouped according to the microorganisms they act primarily against. For example, antibiotics are used against bacteria and antifungals are used against fungi. They can also be classified according to their function. Agents that kill microbes are called microbicidal, while those that merely inhibit their growth are called biostatic. The use of antimicrobial medicines to treat infection is known as antimicrobial chemotherapy, while the use of antimicrobial medicines to prevent infection is known as antimicrobial prophylaxis. The main classes of antimicrobial agents are disinfectants ("nonselective antimicrobials" such as bleach), which kill a wide range of microbes on non-living surfaces to prevent the spread of illness, antiseptics (which are applied to living tissue and help reduce infection during surgery), and antibiotics (which

destroy microorganisms within the body). The term "antibiotic" originally described only those formulations derived from living organisms but is now also applied to synthetic antimicrobials, such as the sulphonamides or fluoroquinolones.

Antibacterial agents can be further subdivided into bactericidal agents, which kill bacteria, and bacteriostatic agents, which slow down or stall bacterial growth. In response, further advancements in antimicrobial technologies have resulted in solutions that can go beyond simply inhibiting microbial growth. Instead, certain types of porous media have been developed to kill microbes on contact.

After the revolution in the "golden era", when almost all groups of important antibiotics (tetracycline's, cephalosporin, amino glycosides and macrolides) were discovered and the main problems of chemotherapy were solved in the 1960s, the history repeats itself nowadays and these exciting compounds are in danger of losing their efficacy because of the increase in microbial resistance. Currently, its impact is considerable with treatment failures associated with multidrug-resistant bacteria and it has become a global concern to public health. For this reason, discovery of new antibiotics is an exclusively important objective. Natural products are still one of the major sources of new drug molecules today. They are derived from prokaryotic bacteria, eukaryotic microorganisms, plants and various animal organisms. Microbial and plant products occupy the major part of the antimicrobial compounds discovered until now. Plants and other natural sources can provide a huge range of complex and structurally diverse compounds. Recently, many researchers have focused on the investigation of plant and microbial extracts, essential oils, pure secondary metabolites and new synthesized molecules as potential antimicrobial agents.

The methods for evaluating the *in vitro* antimicrobial activity are-;

1. Agar disk-diffusion method

Agar disk-diffusion testing developed in 1940, is the official method used in many clinical microbiology laboratories for routine antimicrobial susceptibility testing. In this procedure, agar plates are inoculated with standardized inoculums of the test microorganism. Then, filter paper discs (about 6 mm in diameter), containing the test compound at a desired concentration, are placed on the agar surface. The Petri dishes are incubated under suitable conditions. Generally, antimicrobial agent diffuses into the agar and inhibits germination and growth of the test microorganism and then the diameters of inhibition growth zones are measured (Fig. 1A).



2. Antimicrobial gradient method

The antimicrobial gradient method combines the principle of dilution methods with that of diffusion methods in order to determine the MIC value. It is based on the possibility of creating a concentration gradient of the antimicrobial agent tested in the agar medium. In this procedure, a strip impregnated with an increasing concentration gradient of the antimicrobial agent from one end to the other is deposited on the agar surface, previously inoculated with the microorganism tested. This method is used for the MIC determination of antibiotics, antifungal and anti-mycobacterials. MIC value is determined at the intersection of the strip and the growth inhibition ellipse. It is simple to implement; thus, it is routinely used to meet the demands of clinicians.

3. Agar well diffusion method

Agar well diffusion method is widely used to evaluate the antimicrobial activity of plants or microbial extracts. Here, the agar plate surface is inoculated by spreading a volume of the microbial inoculum over the entire agar surface. Then, a hole with a diameter of 6 to 8 mm is punched aseptically with a sterile cork borer or a tip, and a volume (20–100 µl) of the antimicrobial agent or extract solution at desired concentration is introduced into the well. Then, agar plates are incubated under suitable conditions depending upon the test microorganism. The antimicrobial agent diffuses in the agar medium and inhibits the growth of the microbial strain tested (Fig. 2B).



4. Agar plug diffusion method

Agar plug diffusion method is often used to highlight the antagonism between microorganisms, and the procedure is similar to that used in the disk-diffusion method. It involves making an agar culture of the strain of interest on its appropriate culture medium by tight streaks on the plate surface. During their growth, microbial cells secrete molecules which diffuse in the agar medium. After incubation, an agar-plug or cylinder is cut aseptically with a sterile cork borer and deposited on the agar surface of another plate previously inoculated by the test microorganism. The substances diffuse from the plug to the agar medium. Then, the antimicrobial activity of the microbial secreted molecules is detected by the appearance of the inhibition zone around the agar plug.

5. Cross streak method

Cross streak method is used to rapidly screen microorganisms for antagonism. The microbial strain of interest is seeded by a single streak in the center of the agar plate. After an incubation period depending upon the microbial strain, the plate is seeded with the microorganisms tested by single streak perpendicular to the central streak. After further incubation, the antimicrobial interactions are analyzed by observing the inhibition zone size.

6. Poisoned food method

Poisoned food method is mostly used to evaluate the antifungal effect against molds. The antifungal agent or the extract is incorporated into the molten agar at a desired final concentration and mixed well. Then, the medium is poured into Petri dishes. After overnight pre-incubation, the inoculation can be done by a mycelia disc ranging from 2 to 5 mm, which is deposited in the center of the plate. After further incubation under suitable conditions for the fungal strain tested, the diameters of fungal growth in control and sample plates are measured, and the antifungal effect is estimated by the following formula:

$$\text{Antifungal activity \%} = \left(\frac{D_c - D_s}{D_c} \right) * 100.$$

ANTIOXIDANT ASSAY

Antioxidants are compounds capable to either delay or inhibit the oxidation processes which occur under the influence of atmospheric oxygen or reactive oxygen species. They are used for the stabilization of polymeric products, of petrochemicals, foodstuffs, cosmetics and pharmaceuticals. Antioxidants are involved in the defense mechanism of the organism against the pathologies associated to the attack of free radicals. Endogenous antioxidants are enzymes, like superoxide dismutase, catalase, glutathione peroxidase or non enzymatic compounds, such as uric acid, bilirubin, albumin, metallothioneins. When endogenous factors cannot ensure a rigorous control

and a complete protection of the organism against the reactive oxygen species, the need for exogenous antioxidants arises, as nutritional supplements or pharmaceutical products, which contain as active principle an antioxidant compound. Amongst the most important exogenous antioxidants, vitamin E, vitamin C, β -carotene, vitamin E, flavonoids, mineral Se are well known, but also vitamin D and vitamin K₃. Exogenous antioxidants can derive from natural sources (vitamins, flavonoids, anthocyanins, some mineral compounds), but can also be synthetic compounds, like butylhydroxyanisole, butylhydroxytoluene, gallates, etc .

Recently, antioxidants have attracted considerable attention in relation to radicals and oxidative stress, cancer prophylaxis and therapy, and longevity. Phenols and polyphenols are the target analytes in many such cases; they may be detected by enzymes like tyrosinase or other phenol oxidases, or even by plant tissues containing these enzymes. The recommendations based on epidemiological studies are such that fruits, vegetables and less processed staple foods ensure the best protection against the development of diseases caused by oxidative stress, such as cancer, coronary heart disease, obesity, type 2 diabetes, hypertension and cataract. The explanation consists in the beneficial health effect, due to antioxidants present in fruit and vegetables. There are numerous antioxidants in dietary plants: carotenoids, phenolic compounds, benzoic acid derivatives, flavonoids, proanthocyanidins, stilbenes, coumarins, lignans, and lignins.

METHODS

Spectrometric Techniques

Spectrometric techniques rely on the reaction of a radical, radical cation or complex with an antioxidant molecule capable to donate a hydrogen atom.

The DPPH method:

DPPH• (2,2-diphenyl-1-picrylhydrazyl) is a stable free radical, due to the delocalization of the spare electron on the whole molecule. Thus, DPPH• does not dimerize, as happens with most free radicals. The delocalisation on the DPPH• molecule determines the occurrence of a purple colour, with an absorption band with a maximum around 520nm. When DPPH• reacts with a hydrogen donor, the reduced (molecular) form (DPPH) is generated, accompanied by the disappearance of the violet colour. Therefore, the absorbance diminution depends linearly on the antioxidant concentration.

The ABTS method:

The ABTS cation radical (ABTS^{•+}) which absorbs at 743 nm (giving a bluish-green colour) is formed by the loss of an electron by the nitrogen atom of ABTS (2,2'-azino-bis(3-ethylbenzthiazoline-6-sulphonic acid)). In the presence of Trolox (or of another hydrogen donating antioxidant), the nitrogen atom quenches the hydrogen atom, yielding the solution decolorization. ABTS can be oxidized by potassium persulphate or manganese dioxide, giving rise to the ABTS cation radical (ABTS^{•+}) whose absorbance diminution at 743 nm was monitored in the presence of Trolox, chosen as standard antioxidant.

The spectrophotometric method based on the absorbance diminution of ABTS cation radical was applied to antioxidant content determination in guava fruit extracts, fruit and vegetable extracts, soft beverages, alcoholic beverages, tea and coffee. The standard curve was linear between 25 and 600 μ M Trolox. The values of the total antioxidant capacity of guava extracts ranged between 22.3 \pm 0.9 and 37.9 \pm 3.4 μ M TE/ fresh mass.

The antioxidant activity of soft beverages, as determined by the ABTS method is comprised between 0.09 mM Trolox/liter for Cola and 3.30mM Trolox/liter for grapefruit juice.

The FRAP (ferric reducing antioxidant power) method:

The FRAP (ferric reducing antioxidant power) method relies on the reduction by the antioxidants, of the complex ferric ion-TPTZ (2,4,6-tri(2-pyridyl)- 1,3,5-triazine). The binding of Fe²⁺ to the ligand creates a very intense navy blue color. The absorbance can be measured to test the amount of iron reduced and can be correlated with the amount of antioxidants. Trolox or ascorbic acid were used as references.

The total antioxidant activity of white- and yellow-flesh nectarines was evaluated by FRAP method, the results being expressed as Ascorbic Acid Equivalent Antioxidant Capacity, AEAC). The values ranged between 14.4 and 104.5mg/100 of fruit.

The ORAC (oxygen radical absorption capacity) assay: The method measures the antioxidant scavenging activity against the peroxy radical, induced by 2,2'-azobis-(2-amidino-propane) dihydrochloride (AAPH), at 37°C. Fluorescein was used as the fluorescent probe. The loss of fluorescence was an indicator of the extent of the decomposition, from its reaction with the peroxy radical. Antioxidant activity of guava fruit methanol extracts were determined by the ORAC

method. The standard curve was linear between 0 and 50mM Trolox. The obtained results ranged between 18.2 ± 2.3 and $25.5 \pm 1.6\mu\text{M TE/ fresh mass}$.

The HORAC (hydroxyl radical averting capacity) assay:

In this technique relies on the measurement of the metal-chelating activity of antioxidants, under the conditions of Fenton-like reactions. The method uses a Co(II) complex and hence evaluates the protecting ability against the formation of hydroxyl radical. Fluorescein is incubated with the sample to be analysed, then the Fenton mixture (generating hydroxyl radicals) was added. The initial fluorescence was measured, after which the readings were taken every minute after shaking. Gallic acid solutions were used for building the standard curve.

The TRAP (total peroxy radical trapping antioxidant parameter) assay:

The luminol-enhanced chemiluminescence (CL) [79,82] was exploited to monitor the reactions involving the peroxy radical. The CL signal is driven by the production of luminol derived radicals, resulted from the thermal decomposition of AAPH. The TRAP value was determined from the duration of the time period during which the sample quenched the chemiluminescence signal, due to the presence of antioxidants.

The lipid peroxidation inhibition assay:

The lipid peroxidation inhibition assay method uses a Fenton-like system ($\text{Co(II)} + \text{H}_2\text{O}_2$), to induce lipid (e.g. fatty acid) peroxidation. α -linolenic acid was chosen as a model substrate. It was mixed with the analysed sample, as well as with the Fenton-like mixture, to induce lipid peroxidation. After the end of the incubation, the concentration of thiobarbituric acid-reactive substances (TBARS) was measured, as the index of lipid peroxidation. Lipid peroxidation was expressed in nmoles of TBARS per 1 ml of mixture α -linolenic acid/analysed sample.

The PFRAP (potassium ferricyanide reducing power) method:

An absorbance increase can be correlated to the reducing ability of antioxidants/antioxidant extracts. The compounds with antioxidant capacity react with potassium ferricyanide, to form potassium ferrocyanide. The latter reacts with ferric trichloride, yielding ferric ferrocyanide, a blue coloured complex, with a maximum absorbance at 700nm.

The CUPRAC (cupric reducing antioxidant power) assay:

The standard antioxidants or extracts are mixed with CuSO₄ and neocuproine. After 30min, the absorbance was measured at 450nm. In the assay, Cu(II) is reduced to Cu(I) through the action of electron-donating antioxidants. Results are expressed in milligrams of Trolox per liter of extract.

Fluorimetry:

Fluorescence is the emission of light by a substance that has absorbed light or other electromagnetic radiation of a different wavelength. In most cases, emitted light has a longer wavelength, and therefore lower energy, than the absorbed radiation. Fluorescence emission occurs when an orbital electron of a molecule relaxes to its ground state, by emitting a photon of light after being excited to a higher quantum state by some type of energy. Fluorescence assay has been used to antioxidant content determination.

The fluorescence spectroscopy has been applied for the determination of phenolic compounds in oils. A method based on fluorescence is proposed to quantify the butylhydroxyanisole (BHA) and tert-butylhydroquinone (TBHQ) antioxidant concentration in biodiesel produced from sunflower and soybean oils. Fluorescence and excitation spectra of the solutions were recorded at room temperature .

Spectrofluorimeter

The emission spectra were obtained under excitation at about 310 nm and fluorescence in the 320-800nm range was evaluated. Biodiesel samples without BHA and TBHQ showed fluorescence band at about 420nm, which can be attributed to tocopherols, inherent to the vegetable oils used in the biodiesel production. The addition of BHA and/or TBHQ is responsible for the occurrence of a fluorescence band around 330nm. It was verified that the fluorescence intensity around 330nm increases linearly as function of antioxidant concentration with correlation coefficient of about 1, regardless of the oil source and antioxidants. Fluorimetric methods of ascorbic acid determination are based on dehydroascorbic acid reaction with o-phenylene diamine. This technique requires a strict control of pH, as the fluorescence intensity depends strongly of the pH value.

CHROMATOGRAPHY

Nowadays, the traditional knowledge about the therapeutic potential of plants has forced scientists from all the branches of science such as molecular biology, molecular pharmacology, bio-medicine to lay emphasis on extensive research on the biologically active products from plants (Sampietro *et al.* 2009). Biologically active natural products are present in complex mixtures. They are novel compounds and their isolation therefore becomes necessary. Isolation and identification of bioactive compounds present in a crude extract sample serve as the building block for the development of new type of therapeutics with new mechanisms of action with more potent way to treat various human ailments (Lee *et al.* 2000).

Separation and Isolation of phytoconstituents from plant extract using Chromatographic Methods

Chromatography is the widely accepted technique for the separation of a variety of constituents. The technique first described by Michael Tswett was first used to separate coloured substance from mixture. Now, the application of chromatography is not limited to coloured substances.

PRINCIPLE:

The purpose of chromatography is to separate a complex mixture into individual component exploiting the partition effect which distribute the molecules into the different phases.

The important feature of chromatography is the use of two phases viz. stationary phase and mobile phase. Separation of the substances depends on the relative solubility of the substances in these two different phases. The mixture to be separated is applied at one end of the stationary phase (solid/liquid) and the mobile phase is allowed to percolate through it. Components of the mixture get dissolved in the mobile phase and are carried along with it. Since the rate of solubility of different substances in the mobile phase is different, the separation of each type of substance from a mixture would be possible. The higher the solubility of the substance in the mobile phase, the greater will be the rate of the movement. Substances having a great affinity to the stationary phase resist to move.

TYPES

ADSORPTION CHROMATOGRAPHY:

Adsorption chromatography is probably one of the oldest types of chromatography. It utilizes a mobile liquid or gaseous phase that is adsorbed onto the surface of a stationary solid phase.

The equilibration between the mobile and stationary phase accounts for the separation of different solutes.

PARTITION CHROMATOGRAPHY:

This form of chromatography is based on a thin film formed on the surface of a solid support by a liquid stationary phase. Solute equilibrates between the mobile phase and the stationary liquid phase.

ION EXCHANGE CHROMATOGRAPHY:

In this type of chromatography, the use of a resin (the stationary solid phase) is used to covalently attach anions or cations onto it. Solute ions of the opposite charge in the mobile liquid phase are attracted to the resin by electrostatic forces.

MOLECULAR EXCLUSION CHROMATOGRAPHY:

Also known as gel permeation or gel filtration, this type of chromatography lacks an attractive interaction between the stationary phase and solute. The liquid or gaseous phase passes through a porous gel which separates the molecules according to its size. The pores are normally small and exclude the larger solute molecules, but allow smaller molecules to enter the gel, causing them to flow through a larger volume. This causes the larger molecules to pass through the column at a faster rate than the smaller ones.

COLUMN CHROMATOGRAPHY: (Eg of Adsorption Chromatography)

Column chromatography is a separation technique in which the stationary bed is within a tube. The particles of the solid stationary phase or the support coated with a liquid stationary phase may fill the whole inside volume of the tube (packed column) or be concentrated on or along the inside tube wall leaving an open, unrestricted path for the mobile phase in the middle part of the tube (open tubular column). Differences in rates of movement through the medium are calculated to different retention times of the sample.

THIN LAYER CHROMATOGRAPHY (Eg of Partition Chromatography):

Thin layer chromatography (TLC) is a widely employed laboratory technique and is similar to paper chromatography. However, instead of using a stationary phase of paper, it involves a stationary phase of a thin layer of adsorbent like silica gel, alumina, or cellulose on a flat, inert substrate. Compared to paper, it has the advantage of faster runs, better separations, and the choice between different adsorbents. For even better resolution and to allow for quantification, high-performance TLC can be used.

Thin Layer Chromatography Procedure

- o TLC plates are generally commercially obtainable, with usual particle size ranges to develop reproducibility.
- o They are prepared by adding the adsorbent, such as silica gel, with a least quantity of inert binder like calcium sulphate (gypsum) and water.
- o Thick slurry was prepared by spreading the mixture on a sheet, generally made up of glass.
- o .Heat the resulting plate for thirty minutes at 110 °C for drying and activation.
- o To "load" the plate, very small samples of the sample mixture are applied as spots near one end of the plate (2cm above its bottom).
- o The plate is then placed, sample end down, in a closed vessel containing a shallow pool of the mobile phase solvent.

o The solvent rises on the plate by capillary action, passing over the sample and causing the compounds to move at varying rates depending on their relative affinities for the adsorbent and the solvent.

o When the solvent front has risen to just below the top of the plate, the plate is removed and the solvent is allowed to evaporate. The zones or spots containing the various components of the mixture are then detected by the help of visualizing agents. Visualization can be done under UV light also. After the spots were visualized and labeled, their retention factors (R_f value) were calculated and compared.

Separation of phytoconstituents using Column chromatography

In order to isolate the bioactive compound from the crude extracts they were further fractionated using column chromatography silica gel as stationary phase. A cleaned, dry column (60 X 3cm) was aligned in a vertical position. A beaker was placed under the column outlet. A loose plug of cotton was tamped down in to the bottom of the column. The column was partially filled with silica gel slurry. Later the solvent flows slowly from the column and reaches the height of the silica column.

The plant extract (dissolved in the solvent) was loaded onto the column. The mobile phase (Solvents in the increasing order of polarity) was poured continuously to the top of the column by aid of a funnel. The bottom outlet of the column was opened. The eluates (fractions) were collected in separate test tubes. The column was eluted with different polarity of solvents. The test tubes were changed after 10 ml of each fraction and each collected fraction was analyzed for its biological activity.



Dear Sir/Madam

The Dept. of Botany, Govt. Victoria College, Palakkad is pleased to invite you to the workshop on "Basic Phytochemical Techniques" sponsored by Collegiate Education Department, Govt. of Kerala which will be held on 13th to 15th December 2017. We cordially invite the faculty members and research scholars to participate in the workshop.

Dr. Maya C Nair
Convener and Head
Department of Botany

Sri. Premkumar. V
Principal In Charge

Dr. AR Rasmil
Co-Ordinator



ABOUT THE WORKSHOP

Explosive growth of Modern Biology in recent times has created a new awareness in the unlimited biotechnological potential of natural products. Plants are genetically controlled nature's chemical factory and has been a source of useful products since antiquity. Despite of developments of modern techniques such as molecular modelling and synthetic methods, natural products and particularly medicinal plants, still remains an important source of new drugs and drug leads.

This workshop on "Basic phytochemical techniques" is designed for college teachers teaching at under-graduate and Post graduate levels. This workshop will provide a unique opportunity for teachers to get introduced to the field of phytochemistry. This workshop include the lectures on basic as well as technical aspects of phytochemical analysis and their bioactivity screening followed by hands on training to practice the earned knowledge.



PROGRAMME

DAY 1: 13-12-2017

| TIME | SESSION |
|--------------------|---|
| 9.15 am - 9.45 am | Inauguration |
| 9.45 am - 11.15 am | Principles and Methods of Phytoextraction |
| 11.30 am - 1.00 pm | Hands-on Training: On Soxhlet Extraction, Fresh material Extraction, Cold maceration |
| 1.30 pm - 2.30 pm | Methods of Phytochemical Analysis |
| 2.30 pm - 4.00 pm | Hands-on Training: Phytochemical Analysis, Extraction using Soxhlet apparatus, conc. of sample using rotary evaporator. |

DAY 2: 14-12-2017

| TIME | SESSION |
|---------------------|--|
| 9.30 am - 10.30 am | Antimicrobial Assay: Various methods |
| 10.45 am - 12.45 pm | Hands on Training: Antimicrobial Assay |
| 1.30 pm - 2.30 pm | TLC and Column chromatography |
| 2.30 pm - 4.00 pm | Hands on : TLC, Column Chromatography |

DAY 3: 15-12-2017

| TIME | SESSION |
|---------------------|--|
| 9.30 am - 11.00 am | Antioxidant Assay |
| 11.15 am - 12.45 pm | Hands on: Antioxidant assay using DPPH |
| 1.30 pm - 3.00 pm | Training continued |
| 3.00 pm - 4.30 pm | Valedictory session |

The target participants of this 3 day workshop are faculties of colleges and universities who wish to do active phytochemical work. The workshop covers basic techniques of phytochemistry from extraction to bioactivity screening. It may be a best platform for beginners in phytochemistry.

The number of participants are restricted as 20 and will be selected on a first come first Serve basis.

KINDLY REGISTER YOUR PARTICIPATION ONLINE IN THE BELOW LINK
<https://goo.gl/6CYUc>
Or scan the code below



<https://goo.gl/SDwEMz>

ORGANIZING COMMITTEE

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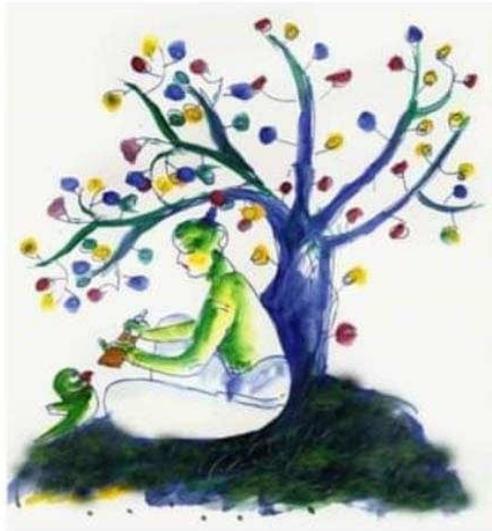
**WORKSHOP ON
BASIC PHYTOCHEMICAL
TECHNIQUES**
DECEMBER 13 – 15, 2017



Sponsored by
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Organised by
Department of Botany
Government Victoria College
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ദ്വിദിന ദേശീയ സെമിനാർ



ആവിഷ്കാരസ്വാതന്ത്ര്യം അതിർത്തി സങ്കല്പനങ്ങൾ

2018 നവം. 13, 14

ഗവ. വികേന്ദ്രീയ കോളേജ്, പാലക്കാട്

വേദി : ഒ.വി. വിജയൻ ഹാൾ

മലയാള വിഭാഗം

സുഹൃത്തേ,

ആവിഷ്കാരസ്വാതന്ത്ര്യം കടുത്ത വെല്ലുവിളികൾ നേരിടുന്ന ഒരു കാലമാണ് കടന്നുപോകുന്നത്. ഒട്ടനേകം പ്രത്യയശാസ്ത്രങ്ങൾ ഒളിഞ്ഞും തെളിഞ്ഞും എഴുത്തുകാരടെ തെരഞ്ഞെടുപ്പുകളിൽ ഇടപെടുകയും അത് കൂടുതൽ മുർത്തവും കായികവുമായി മാറുകയും ചെയ്യുന്നത് നാം കണ്ടു. ഈ സന്ദർഭത്തിൽ 'ആവിഷ്കാരസ്വാതന്ത്ര്യം' എന്ന ആശയത്തെ വസ്തുനിഷ്ഠമായി വിലയിരുത്തുകയും അതിന്റെ ചരിത്രാടിസ്ഥാനങ്ങളെ മുൻനിർത്തി സമീപകാല വെല്ലുവിളികളെ അപഗ്രഥിക്കുകയും ഉചിതമാണെന്ന് വരുമ്പോൾ

പാലക്കാട് വികേന്ദ്രീയ കോളേജിലെ മലയാള വിഭാഗം 2018 നവംബർ 13, 14 തീയതികളിലായി 'ആവിഷ്കാര സ്വാതന്ത്ര്യത്തിന്റെ അതിർത്തി സങ്കല്പനങ്ങൾ' എന്ന വിഷയത്തിൽ കോളേജ് വിദ്യാഭ്യാസവകുപ്പിന്റെ ധനസഹായത്തോടെ നടത്തുന്ന ദേശീയ സെമിനാർ ആവിഷ്കാരങ്ങൾ നേരിടുന്ന വിഭാഗങ്ങളുടെയും വെല്ലുവിളികളുടെയും ഉപമുഖ്യരായ

- സെമിനാർ മുന്യാള അധിപ കെ. അയ്യപ്പൻ ഡോ.സഫിയ ബീവി എ. (പ്രിൻസിപ്പൽ)
- ഉദ്ഘാടനം കൽപ്പറ്റ നാരായണൻ
- ആശംസകൾ ഡോ. സി.വി. ശ്രീമണിയിൽ കുമാർ (IQAC കോർഡിനേറ്റർ)
- ഡോ. സായി ശ്രീമൈ (തമിഴ് വകുപ്പുമുഖ്യൻ)
- ഡോ. സുകുമാർ പാപ്പാമുട്ടി (സംസ്കൃത വകുപ്പുമുഖ്യൻ)
- ഒപ്പൻ്റെ മുൻനിർമ്മിതി (കോളേജ് യൂണിയൻ ചെയർമാൻ)
- നന്ദി : സ്മിതാനാണി എം.എസ്.

സെഷൻ ഒന്ന്
 രാവിലെ 10.00
 മോഡറേറ്റർ : വി.വിജയകുമാർ
എഴുത്തിലെ സ്വാതന്ത്ര്യസങ്കല്പങ്ങൾ
 അവതരണം കല്പറ്റ നാരായണൻ

14/11/2018 ബുധൻ
 സെഷൻ മൂന്ന്
 രാവിലെ 9.30
 മോഡറേറ്റർ : ഷീബ കെ.
 (ഇംഗ്ലീഷ് വിഭാഗം, ചിറ്റൂർ ഗവ.കോളേജ്)

സഭ വിട്ടിറങ്ങുന്ന ആരേൻ
 അവതരണം സിന്ധു ബെബി (എഴുത്തുകാരി)
 രാവിലെ 11.00
ചലച്ചിത്രാവിഷ്കാരം സങ്കേതത്തിന്റെ അതിരുകൾ
 അവതരണം ആർ.വി.എം.ദീപാകരൻ
 (അധ്യാപകൻ കാലിക്കറ്റ് സർവകലാശാല)
 നന്ദി

സെഷൻ നാല്
 ഉച്ചക്ക് 1.00
 മോഡറേറ്റർ : രാജേഷ് ചെറുവത്തൂർ
 (സംസ്കൃതവിഭാഗം)
എഴുത്തുകാരി മുനി തുറക്കുന്നു
 അവതരണം കെ. അശ്വതി (പ്രിൻസിപ്പൽ)

DEPARTMENTS OF ECONOMICS

GOVT.VICTORIA COLLEGE, PALAKKAD

Report of national workshop organised on 8-10, November, 2016

The Department of Economics Govt.Victoria College, Palakkad organised Three Day National Workshop on “Basic Econometric Tools and Research Methodology” on 8th, 9th and 10th November, 2016 with the financial assistance of Department of Collegiate Education, Govt of Kerala. Dr. Jeeja K S co-ordinated the programme.

The chief guest of the event was Dr. Vijaya Mohanan Pillai N, Associate Professor, Centre for Development Studies, Trivandrum who inaugurated the seminar.

The technical sessions:

- Introduction to Econometrics - Dr. Vijaya Mohanan Pillai N, Associate Professor, Centre for Development Studies, Trivandrum delivered the keynote address and introduced the basics of econometrics.
- Time Series Analysis - Dr. Prasobhan Palakkeel (Asst. Professor, Amritha School of Business, Bangalore)
- Statistical Inferences - Dr. K X Joseph, Professor, Dr. John Mathai Centre, Thrissur)
- Growth Rate Analysis – Dr. Shyjan Davis (Asst. Professor, Dr. John Mathai Centre, Thrissur)
- Multi-Variate Analysis : Dr. Christabelle P J, (Asst. Professor, Department of Futures Studies, University of Kerala, Trivandrum)
- Qualitative Research – Dr. K Rajesh (Head, Social Science Division, IRTC, Palakkad)
- Statistical Data Analysis – Dr. Raju N, (Professor, Dept. of Statistics, University of Calicut,)
- Applications of Excel in Economics- Dr. M Sindhu (Asst. Professor of Economics, Sree Kerala Varma College, Thrissur)
- Reference Management Tools – Ms. Savithri T K (Technical Assistant, M G University Library, Kottayam)

The National Workshop was attended by faculty members and research scholars from across India



SEMINAR:DIASPORIC LIFE DEPICTED IN CONTEMPORARY HINDI LITERATURE

REPORT: The Dept of Hindi ,Govt.Victoria College had conducted two day National Seminar on the topic DIASPORIC LIFE DEPICTED IN CONTEMPORARY HINDI LITERATURE on 28th &29th of Nov 2018.Ten eminent resource scholars from different states of the country , nearly 50 college teachers from different colleges and universities , research scholars & UG students were present in the seminar. Dr.Aravindakshan(Ex-Pro Vice Chancellor ,Mahatma Gandhi International Hindi University)inaugurated the seminar in this occasion. Dr. Narayan (HOD Sree Venkateshwara University ,Tirupathy)was the Chief Guest. Dr. Sherlin was the co-ordinator of this seminar.

The seminar was very influential. Papers were presented by teaching and Research scholars .Fruitful discussions were held.



3 DAYS NATIONAL LEVEL WORKSHOP

FORENSIC WITH LAW IS NEVER A FLAW

2018 October 23rd, 24th & 25th

Crime is as old as mankind so is crime investigation. Forensic Science is the Science of investigation. It is a multidisciplinary science applying scientific knowledge in solving crimes thereby helping investigators to the administration of justice. This workshop aims to bring together major academicians and scientists to exchange and share their experiences, latest trends and innovations and thereby raise awareness in forensic research and technology.

We are glad to invite you and request your esteemed presence and participation in the Workshop.

Organised by
PG & Research Dept. Of Zoology
GVC, Palakkad

Sponsored By:
Directorate of Collegiate Education,
Government Of Kerala

Dr. A SAFIYA BEEVI
Spl. Grade Principal, GVC, Palakkad

Dr. C V SREERANJIT KUMAR
HOD, Dept. Of Zoology

Mr. A YESUDASAN
Asst. Prof., Co-ordinator.

PROGRAMME SCHEDULE Venue : SEMINAR HALL

| DAY 1 23.10.2018 | | |
|--------------------|---|---|
| 8.30 am - 9.30 am | Registration | |
| 9.30 am - 10.00 am | Inauguration | |
| Time | Technical Session | Resource Person |
| 10.00 am - 1.00 pm | Introduction to Forensic Science | Mrs. Annamma John Asst. Director (Rtd.) FSL |
| 1.30 pm - 4.30 pm | Introduction to Forensic Medicine | Dr. P.B. Gujral Police Surgeon, Dist. Hospital, Palakkad |
| DAY 2 24.10.2018 | | |
| 9.30 am - 12.30 pm | DNA Fingerprinting Practical Session I | Mrs. Sreevidhya K V Asst. Director, FSL, Tvm |
| 1.00 pm - 4.00 pm | Forensic Examination of Hair Practical Session II | Mrs. Aswathy Ajayan Asst. Professor, Anna Fathima College of Arts and Science, Madurai |
| DAY 3 25.10.2018 | | |
| 9.30 am - 11.00 am | Introduction to Forensic Chemistry Practical Session III | Dr. P. Sachidanandan Asst. Director, FSL, Tvm |
| 11.30 am - 1.00 pm | Know Your Finger Prints Practical Session IV | Mr. V. Nigar Babu TI, Finger Print Bureau Palakkad |
| 1.30 pm - 3.30 pm | Glimpses of Forensic Biology Practical Session V | Dr. Ani V Scientific Officer, RFSL, Thrissur |
| 3.30 pm - 4.30 pm | Closing Ceremony | |

ORGANISING COMMITTEE

1. Dr.K.Abdul Rasheed (Asst. Prof.)
2. Mrs. Beena S John (Asst. Prof.)
3. Dr. Lakshmi Priyadarsini (Asst. Prof.)
4. Mrs. Gayathri U K (Asst. Prof.)
5. Mr. Jain Thomas (Asst. Prof.)
6. Mrs. Sindhu K (Guest. Lect.)

Contact : 9995403004. 8075974497



REPORT OF THE
3 DAYS NATIONAL WORKSHOP ON FORENSIC SCIENCE
OCTOBER 23-25 2018

Organized by

**Research & Post Graduate Dept. of Zoology,
Govt. Victoria College, Palakkad.**

**Sponsored by Directorate of Collegiate Education
Govt. of KERALA**

INTRODUCTION

Crime in some form or other has existed since the beginning of the human race. An intelligent criminal has been quick to exploit science for his criminal acts. In this context, forensic science has found its existence and relevance. Forensic science is a multidisciplinary branch of science which is directed to the recognition, identification of the physical evidence by the application of scientific principles.

The present attempt of the Dept. of Zoology to organize a 3 day national workshop on "Forensic with law is never a flaw" is aimed at making aware of theories and procedures behind the application of forensic science to students, teachers and general public by making a platform by conducting classes, demonstrations and hands on training in crime detection procedures.

PROGRAMME

The registration was started at 8.30 am on 23rd October 2018. The workshop was inaugurated by Mrs. Annamma John, Asst. Director, FSL and delivered the key note address followed by a technical session in 'Introduction to Forensic Medicine' by Dr. P. B. Gujral, Police Surgeon, District Hospital, Palakkad.

On 24th morning at 9.30 am, a practical session was led by Mrs. Sreevidhya, K.V., Asst. Director, FSL, Trivandrum on 'DNA FINGERPRINTING' followed by a lecture demonstration by Mrs. Aswathy Ajayan on 'Forensic Examination of Hair' in the afternoon.

On day three, on 25th October 2018, a lecture demonstration class was led by Dr. Ani.V, Scientific officer, RFSL, Thrissur, on 'Glimses of Forensic biology' followed by a practical session on ' Know your fingerprints' by Mr.Nigar Babu, TI, Finger pint bureau, Palakkad.

The afternoon session was on 'Introduction to Forensic Chemistry' by Dr.P Sachidanandhan, Asst. Director, FSL, Trivandrum and the closing ceremony was conducted following the lecture class.

A proceedings of the workshop including all invited lectures , selected articles on Forensic science and common laboratory procedures used in forensic examination was compiled and issued .



Govt. Victoria College, Palakkad

Department of Statistics and Department of Mathematics

Report of four day

NATIONAL WORKSHOP ON COMPUTATIONAL MATHEMATICS AND STATISTICS

22-25 October 2018

The post graduate departments of Mathematics and Statistics, Government Victoria College, Palakkad has jointly organized a four day “**National Workshop on Computational Mathematics and Statistics**” on 22-25 October 2018 with the sponsorship of Directorate of Collegiate education, Government of Kerala. The venue was the Computer lab of Department of Statistics. The main objective of the workshop was to introduce the advanced computational techniques for the participants using demanding software’s like R and Python through interactive sessions and hands on training. The recourse persons of the programme were Dr Joby K Jose, Assistant Professor, Department of Statistical Sciences, Kannur University, Mr Rasin R S, Assistant Professor, Department of Statistics St. Thomas College (Autonomous), Thrissur, Dr Vishnu Namboothiri K, Assistant Professor, Department of Mathematics, Govt. Arts and Science College, Ambalappuzha respectively. The first two faculties led sessions on statistical software R which is the highly demanding tool for the advanced data analysis in the current time. The third recourse person has led the session on more advanced mathematical software Python and related packages. Both R and Python are increasingly attracts attention of advanced analytic field. Thus, the workshop offers an opportunity to learn all these cutting edge analytical tools of the big data era. Accordingly several participants from different areas of Kerala have attended the workshop.

The workshop was officially inaugurated on 22 October 2018 8.30 am at Smart Class room of Statistics Department. Mr Muhammed Anvar P, Coordinator and HOD, Dept. of Statistics did the welcome speech and programme concept. Dr A Safiya Beevi, Special grade Principal, Govt Victoria College, Palakkad inaugurated the programme. Felicitations were

delivered by Dr C Srinivasan, Vice Principal and HOD, Dept. of Mathematics, Ms. Maya Nair, IQAC, and Mr Rasin, R. S., Recourse person respectively. Mr Aboobacker P, Assistant Professor, Dept. of Mathematics expressed the vote of thanks.

The first session in first day of the workshop was led by Mr Rasin R S, Assistant Professor, St Thomas College, Thrissur on 9.30 am onwards, giving an introduction to R and its importance gained in nowadays. The second session from 11.15 am discussed basic aspects of data entry and graphics in R. The participants were actively engaged in morning sessions. The afternoon session started at 1.30 pm starting discussion on descriptive statistics and probability distributions in R. The final session discussed the various statistical testing of hypothesis in R and then a discussion was held. The first day ended with this discussion and enthusiastic participants were benefitted by clearing their doubts.

The second day schedule started at 9.300 am. This session was led by Dr Joby K Jose, Assistant Professor, Department of Statistical Sciences, Kannur University. He successfully led the concept of Correlation and Regression using simple examples and demonstrated them in R. The second session continued the previous discussion giving more concrete examples. The multivariate analysis is an important data analysis area and the third session started on 1.30 pm depicted the techniques through R. The same concept in detail was continued in the next session. As before yesterday, an interactive session was held and participants expressed their views on the topic. Thanks to Dr Joby K Jose for spending more time than scheduled, with the aspirants.

Third day of the workshop witnessed a different environment of introduction of classic but much demanding mathematical software Python. Dr Vishnu Namboothiri K, Assistant Professor, Department of Mathematics, Govt Arts and Science College, Ambalappuzha has given a nice introduction of computational mathematics and its scope in the current satiation. Second session of third day was devoted to programming with python. The recourse person showed his extraordinary knowledge in the Python programming and shared some of his programming skills to the participants. The afternoon session also discussed the programming in Python. Linear algebra and its applications are well known in applied mathematics literature. The last session discussed the same concept and its implementation in Python. The participants have really enjoyed the sessions.

The last day of the workshop discussed the non linear programming using Python in the first two sessions. Afternoon sessions were started at 1.30 pm and introduced related software

namely SAGE. The two sessions explained the mathematical analysis using SAGE software. An extensive feedback from each participant was taken and analyzed.

Valedictory session was held at 4.30 pm. Dr Suresh V, Assistant Professor and PTA secretary, Dept. of Botany presented the memento to the recourse person and distributed certificates to the participants.

Registration form

Name:

Designation:

Institution:

Areas of interest:

Address:

Email:

Phone no:

Whether accommodation required or not

If yes, date and time of arrival:

Signature:

NB: Please send the duly filled registration form by post or e-mail to reach the coordinator on or before 17.10.18

CONTACT DETAILS:

Muhammed Anvar P : +91 9048342009 (muhammedanvarp@gmail.com)
boobacker P : +91 9446085684 (backer83@gmail.com)

**NATIONAL WORKSHOP
On
COMPUTATIONAL MATHEMATICS AND STATISTICS**

22- 25, OCTOBER 2018



Jointly organized by



Department of Mathematics and Department of Statistics
Govt. Victoria College, Palakkad

Sponsored By:

Department of Collegiate Education, Govt of Kerala

About the College

The Govt Victoria College, Palakkad, which got established in the year 1888 is one of the four heritage educational institutions and centre of excellence in the educational sector of Kerala, aiming at training, guiding, inspiring, motivating and leading young men and women to become successful leaders to serve the country better. The campus in its life nurtured and brought up a number of leaders, professionals, artists, novelists, and poets during the last 129 years. We focus on discovering, developing and drawing out the hidden talents and the magic lying dormant inside all of its students. From academics to co-curricular activities, perseverance and a never-say-die spirit are entrenched in the heart of every student not only making them good students, but brilliant human beings.

About the Department of Mathematics

Right from its inception, the department of Mathematics has strived to contribute to the development of the college, with its high objectives and dedicated effort from its faculty. The department offers UG and PG courses apart from the subsidiary courses. The department takes pride to have been instrumental in producing highly qualified and motivated Mathematicians all through these years.

About the Department of Statistics

The department of Statistics was established in 1957. It offers PG course in Statistics and subsidiaries in various disciplines. Several of its alumni are well placed in government as well as in private sectors. The department is providing consultancy services in statistical data analysis, Statistical Software training and clarification of Statistical concepts. The department was successful in the value addition of students in transforming them to the knowledge assets of the society.

About the Workshop

In the era of modern computational mathematics, we aim to equip the faculty members with the most advanced and popular Mathematical and Statistical software's Python and R. The workshop is mainly intended to equip the teachers, research scholars and students with practical knowledge in both Python and R. As the number of participants is limited, applicants should submit their registration as soon as possible on or before 17-10-18. The department of Mathematics and Department of Statistics, Govt Victoria College, Palakkad is jointly organizing a four-day "National Workshop on Computational Mathematics and Statistics" on 22-25 October 2018 with the sponsorship of the Directorate of Collegiate Education, Government of Kerala. Participation from your institution is earnestly solicited.

Resource persons

Dr. Achy K. Jose (Kannur University),
Dr. Rasin R. G. (St. Thomas College(Autonomous), Thrissur),
Dr. Valsara Nambathoor K. (Govt. College, Arattupuzha)

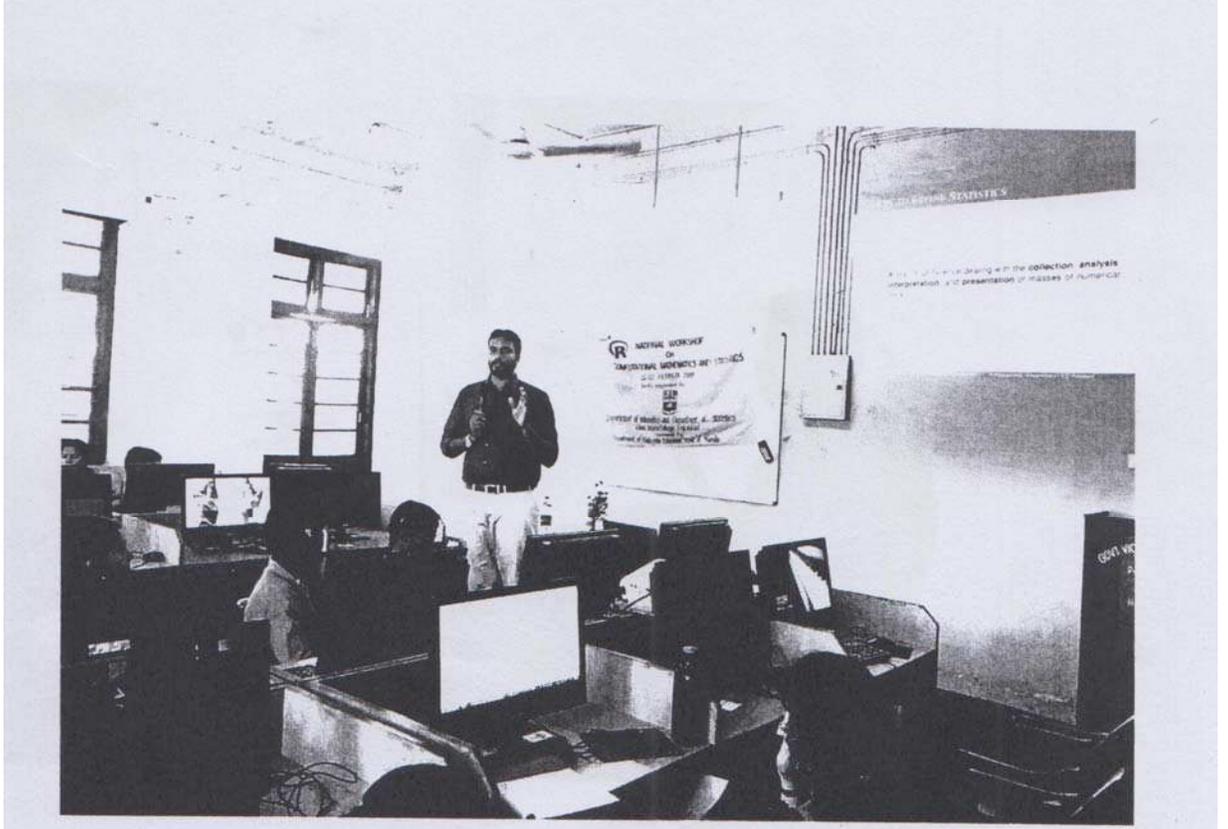
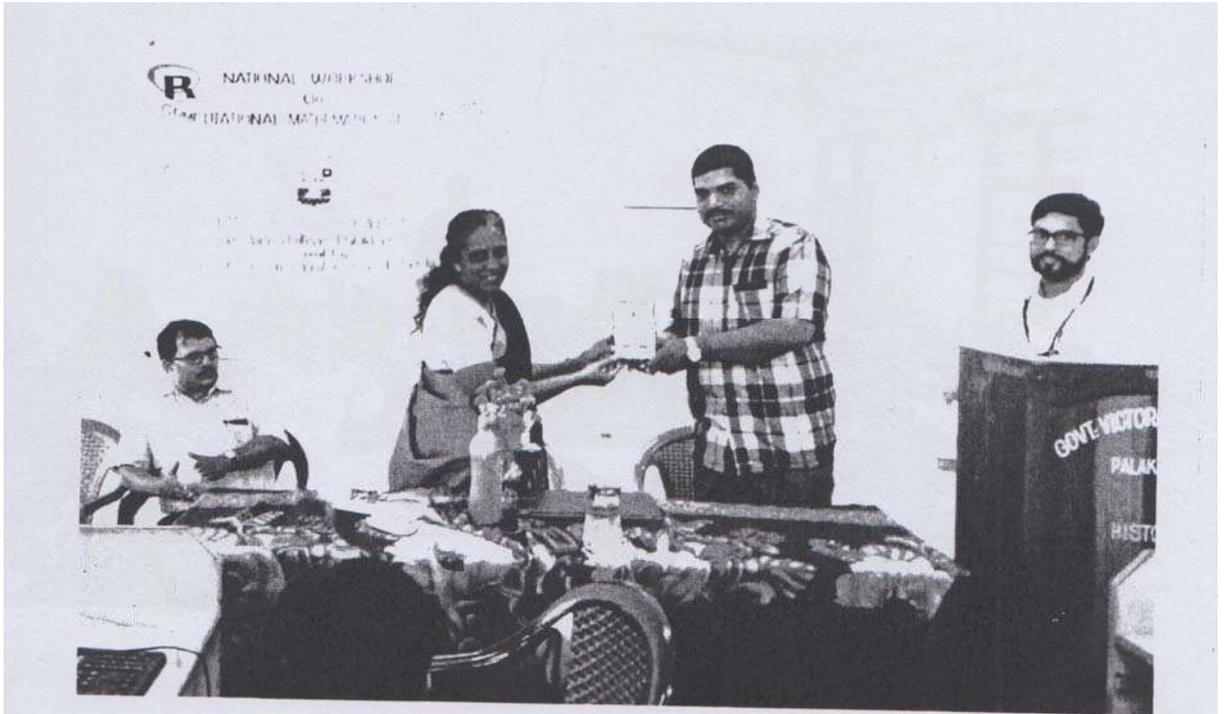
Dr. A. Sadiya Zheer
#organizer

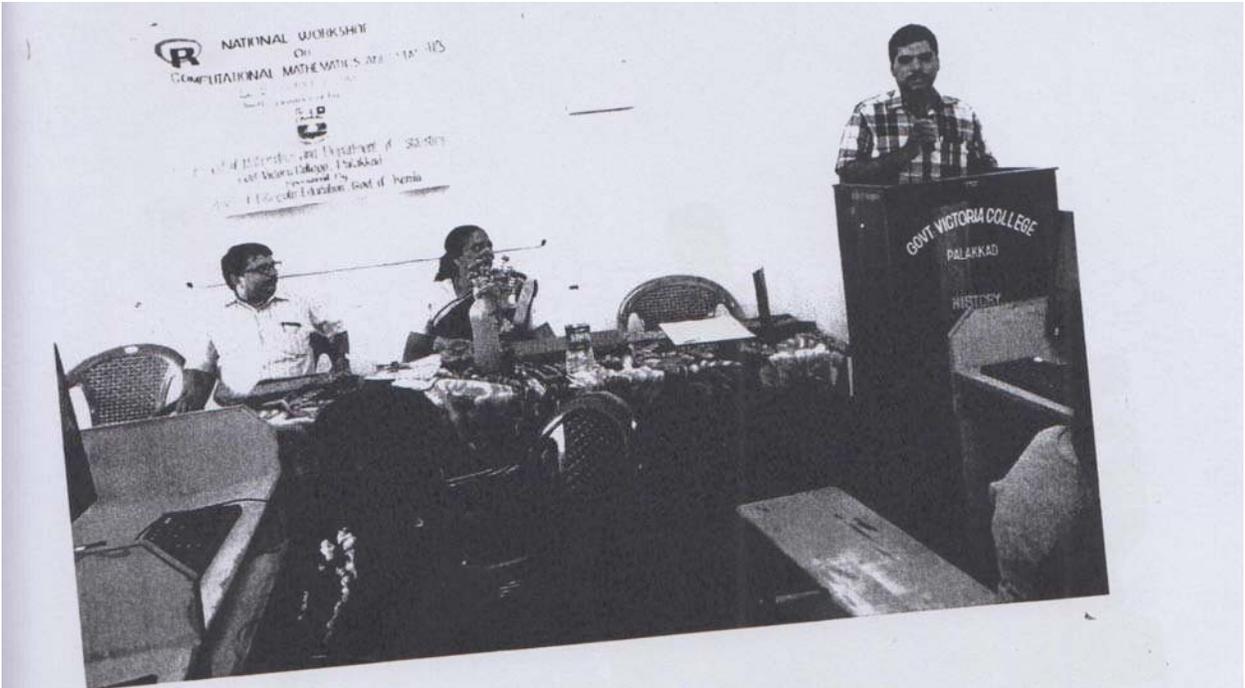
Mohammed Anwar P

Abbotiackal P

(Co-organizers)

NB: Participants are requested to bring their own laptops if possible





A workshop on Innovative Software Initiatives in Social Science Research has been organised on 12th,13th,14th and 15th of September by the department coordinated by Smt. Mahija.K, Asst.Professor of Commerce. PG students from the college, faculties from other colleges etc. participated. An on hand training on SPSS software has been provided to the participants covering descriptive statistics, various parametric and non parametric tests.





National Seminar on
Electrochemistry: Fundamentals to Applications
22-10-2018 to 23-10-2018

Seminar Report

Department of Chemistry, Govt. Victoria College, Palakkad, organised a two day national seminar on “**Electrochemistry: Fundamentals to Applications** ” on **22nd Oct, 2018 to 23rd Oct, 2018** at Chemistry Seminar hall, with the financial support from the Directorate of Collegiate Education, Govt. of Kerala. The aim of present seminar is to increase the awareness of electrochemistry and its applications among college teachers, research scholars and post graduate students.

Seminar was inaugurated by Dr.R.Manu, Assistant professor at Sree Vyasa NSS College, Wadakkanchery. Dr. Padmakumar K, Head of the department of Chemistry, welcomed the resource persons and participants and then principal in charge Dr. Srinivasan presided the inaugural function. Facilitations were given by physics department HOD Prof.O.K. Ramesh, IQAC joint coordinator Dr. Maya and vote of thanks by joint coordinator Dr. Shanthil. M.

About 40 teaching faculties and 40 students from various colleges attended the seminar. There were three resource persons; Dr. Vijayamohan K Pillai, Director, CSIR-Central Electrochemical Research Institute, Karaikudi, Tamil Nadu, Dr. R. Manu, Assistant Professor, Dept of Chemistry, Sree Vyasa N.S.S. College Wadakkanchery, Thrissur and Dr.Subila.K.B, Assistant Professor, Dept of Chemistry, Govt KKTU College, Kodungallur, Thrissur.

We have changed the sessions of Dr.R.Manu and Dr.Subila.K.B on to 22nd Oct, 2018 due to inconvenience of Dr.Vijayamohan K Pillai. The Morning session on Electrochemistry: Concepts to Applications was taken by Dr.R.Manu and started immediately after inaugural function by 9.30 am and was followed by Dr.Subila.K.B session at 11.15 am who gave a wonderful talk on the subject Application of Electrochemistry towards Perovskite solar cell. The next session by Dr.R.Manu was started by 2.00 pm after lunch on the topic Basics on different Electrochemical techniques and ended by 4.30 pm. Both the Speakers sessions were informative for both faculties and students and been thanked by presenting a small momento. Dr.R Manu been thanked and presented momento in behalf of Dept of chemistry Govt Victoria College Palakkad by Dr P.R.John and Dr Subila K B by Dr.Padmakumar K Head of Department Chemistry Govt Victoria College Palakkad.

The first session of 23rd Oct, 2018 was taken by Dr. Vijayamohanan K Pillai on Electrochemistry: Fundamentals to Application at 9.30 am and second session on Battery wars for electric vehicles at 11.15 am and ended by 1.00 pm for Lunch. He started third session on introduction to cyclic voltammetry experiments at 2.00 pm and ended by 4.00 pm. The last session involved experiment parts which involved live display onto the screen for the participants easy view during presentation further it was an interactive session too. He was thanked by presenting momento in behalf of Dept of Chemistry by Dr.Padmakumar K, Head of the Dept of Chemistry, Govt Victoria College Palakkad.

The seminar came to an end with a brief Valedictory function.

Mr.Kundukulangara Varghese Vinod
Asst. Professor (Chemistry)
(Coordinator)

**DEPARTMENT OF SANSKRIT
GOVT. VICTORIA COLLEGE, PALAKKAD**

REPROT OF TWO DAY NATIONAL SEMINAR

The Department of Sanskrit, Govt. Victoria College, Palakkad, organized a two day national seminar on 'Stripakshavayana Samskratasahhityangalil' from 24th to 25th October 2018 with the sponsorship of Directorate of Collegiate Education, Govt. of Kerala. Dr. Suma Parappattoli Co-Ordinate the programme by the assistance of the organizing committee Members.

The inaugural function presided by Dr Suma Parappattoli HO D Dept of Ssanskrit, Dr Sreenivasasn, Principal in charge, Govt. Victoria College, Inaugerated the function Dr. C.V. Sreeranjithkumar, IQAC co-ordinator; Smt. Ajitha K, HOD of Malayalam, Dr M Sathyan, Calicut uty senate member, felicitate the function at 9.30 AM on 24th october 2018.

Session Started at 10 AM. Key Note Address presented by Dr.P V Narayanan, Prof Sreesankaracharya Uty of Sanskrit payyannur Regional centre, from 10 AM to 11.30 AM. After that Dr. N.K.Sundareswaran Associate.Prof&HOD University Of Calicut, presented a paper on *Samranji swaswram Bhava* from 11.30 AM to 1 P.M. During the Session two Dr.V R.Muraleedharan, Associate.Prof& HOD SSUS, Kalady, presented a paper on Classical samskratasahityatile strisankalpam, from 1.30 PM to 3 PM. Then Dr P Narayanan Namboodiri RtdProf&HOD University Of Calicut, presented a paper on Stripratyayavicaram from 3 PM to 4.30PM.

In the Second Day on 25th October 2018 the morning session was handled by Dr. T S Ajitha Asst.Prof. Sre Achyuta Menon Memmorial Govt.College Kuttanellur From 9.30 A. M to 11.A.M in Kuttavum Siksayum itihasangalile strijivitangalil. Then Dr. Sreparvathi D Asst Prof.Presented a Paper on Smartavicaratinte Dharmasastraparisarantal From 11A.M to12.30 P.M. The Participants were interactively took part in all these presentations. In the afternoon session from 1 30 PM to 3 P.M .Dr T Mini ,Associate Prof ,GovtSSUSKalady Presented a Paper on Bharatiyadarsanagalile Strivazhikal . Then Dr Sridevi, presented a paper on *Abhinjanasakuntalam Oru Stripakshavayana* from 3.00 P.M to 4.30.P.M.

The participants were interactively took part in all these sessions. Finally we arrange a valedictory function, in which participants gave their feedback and certificates are distributed to the participants.

കാലിദാസ സഭാ

സംസ്കൃതവിഭാഗം

ശ്രീ. വി. ശങ്കരൻ കോളേജ്, ചെന്നൈ

ദിവിന ദേശീയ
സമ്മിതി

ജനുവരി 24, 25, 26, 27, 28, 29, 30, 31

പ്രതിവർഷം (1) സംഘടിപ്പിക്കുന്ന
കൃത സാഹിത്യ സമ്മേളനം



ഒക്ടോബർ 25 വ്യാഴം കാലത്ത് 9.30 - 12.30

അദ്ധ്യക്ഷ

ഡോ ശ്രീപ്രിയ ആർ
(അസി പ്രൊഫസർ, ഇംഗ്ലീഷ് വിഭാഗം
ഗവ. വിക്ടോറിയ കോളേജ് പാലക്കാട്)

പ്രബന്ധാവതരണം

ഡോ. അജിത. ടി. എസ്. (അസി പ്രൊഫസർ,
സംസ്കൃതവിഭാഗം, ശ്രീ വി അച്യുതമേനോൻ
ഗവ. കോളേജ് തൃശ്ശൂർ)
കുറ്റവും ശിക്ഷയും ഇതിഹാസങ്ങളിലെ
സ്ത്രീജീവിതങ്ങളിൽ

പ്രബന്ധാവതരണം

ശ്രീമതി. ശ്രീപാർവ്വതി. ഡി
(അസി പ്രൊഫസർ ചരിത്രവിഭാഗം
ശ്രീ വി അച്യുതമേനോൻ ഗവ. കോളേജ്
തൃശ്ശൂർ)
‘അപരാധിയായ അനർജ്ജനം’:
സ്വാർത്ഥ വിചാരത്തിന്റെ ധർമ്മശാസ്ത്ര
പരിസരങ്ങൾ

ചർച്ച
നന്ദി

നി.ക. ആർ

1.00 - 4 മണി
അദ്ധ്യക്ഷ

ഡോ. ഉമ. സി. എൻ (സംസ്കൃതവിഭാഗം
അധ്യാപിക, തുരുവാത്തൂർ
ശ്രീകൃഷ്ണ കോളേജ്)

പ്രബന്ധാവതരണം : ഡോ ടി. മിനി (അസോസിയേറ്റ് പ്രൊഫസർ,
സംസ്കൃതസാഹിത്യം, എസ്.എസ്. യു. എസ്
കാലടി)
ദാമരീയ ദർശനങ്ങളിലെ സ്ത്രീവഴികൾ
തേരിതാമയെ മുൻനിർത്തി
രമ്യേഷണം

പ്രബന്ധാവതരണം : ഡോ. ശ്രീദേവി
(അധ്യാപിക, ജി. യു. പി. എസ് കടമ്പഴിപ്പുറം)
അഭിജ്ഞാനശാകുന്തളം -
ഒരു സ്ത്രീപക്ഷവാചന

ചർച്ച
നന്ദി : പ്രജിഷ എം
4 മണി : സമാപനസമ്മേളനം
സെമിനാർ അവലോകനം
നന്ദി : ഡോ. സുമ പരപ്പട്ടോളി

ബന്ധപ്പെടേണ്ട ഫോൺ നമ്പർ :
9495292738, 9544626654



സംസ്കൃതവിഭാഗം

ഗവ. വിക്ടോറിയ കോളേജ്, പാലക്കാട്



ദ്വിദിന
ദേശീയ
സെമിനാർ

2018 ഒക്ടോബർ 24,25 കാളിന്ദാസ ഹാൾ

സ്ത്രീപക്ഷവാചന
സംസ്കൃത
സാഹിത്യങ്ങളിൽ

സമാഹരണം, ചരിത്രാനുഭവം മുതൽ എഴുതപ്പെട്ട ചൈനകളെല്ലാം സ്ത്രീപക്ഷത്ത് നിന്ന് പുനർവാതികൊന്നും അവയിൽ ഗുണമൊന്നും അല്ലാതെയും തെളിഞ്ഞ പുരുഷാധിപത്യപരമായ അധികാരപ്രയോഗത്തെ പുറത്ത് കൊണ്ടുവരാനും സ്ത്രീപക്ഷസ്വാഹിത്യവിമർശനത്തിന് കഴിഞ്ഞിട്ടുണ്ട്. രാമായണവും മഹാഭാരതവുമൊക്കെ അവയിലെ സ്ത്രീപക്ഷവിമർശനങ്ങളെ വെളിപ്പെടുത്തുന്ന വായനയ്ക്ക് വിധേയമായിട്ടുണ്ട്. ഇത്തരത്തിൽ സംസ്കൃതസാഹിത്യങ്ങളിലെ സ്ത്രീപക്ഷവായനയുടെ നിലപാടുകളും പ്രശ്നങ്ങളും സാധ്യതകളും സന്ധ്യക്ഷ്മം വിശകലനം ചെയ്യുക എന്നതാണ് ഈ സെമിനാറിന്റെ ലക്ഷ്യം. കോളേജ് വിദ്യാഭ്യാസവകുപ്പിന്റെ ധനസഹായത്തോടെ 2018 ഒക്ടോബർ 24,25 തീയതികളിൽ തവൺമെന്റ് വിക്ടോറിയ കോളേജ് സംസ്കൃതവിഭാഗം സംഘടിപ്പിക്കുന്ന ഈ ദ്വിദിന ദേശീയ സെമിനാറിലേക്ക് താങ്കളെ പ്രോത്സാഹിപ്പിച്ചും സ്വാഗതം ചെയ്യുന്നു.



ഡോ. സഫിയ ബീവി
(പ്രിൻസിപ്പാൾ)

ഡോ. സുമ പാപ്പടോളി
(വകുപ്പധ്യക്ഷ, കോ-ഓർഡിനേറ്റർ)

നീഷ വി. എൻ
(അസി.കോ-ഓർഡിനേറ്റർ)

അക്കാദമിക സമിതി
ഡോ. ജി.കെ.എ, നീഷ ആർ, പ്രമീഷ എം

ഒക്ടോബർ 24 ബുധൻ കാലത്ത് 9.30ന്
ഉദ്ഘാടനപരമേളനം

- പ്രാർത്ഥന : **നീഷ വി. എൻ**
- സ്വാഗതം : (അസി.കോ-ഓർഡിനേറ്റർ)
- അദ്ധ്യക്ഷ : **ഡോ. സുമ പാപ്പടോളി**
- : (വകുപ്പധ്യക്ഷ, സംസ്കൃതവിഭാഗം)
- ഉദ്ഘാടനം : **ഡോ. സഫിയ ബീവി**
- : (പ്രിൻസിപ്പാൾ, തവ. വിക്ടോറിയ കോളേജ്)
- ആശംസ : **ഡോ. എം. സത്യൻ**
- : (കാലിക്കറ്റ് യൂണിവേഴ്സിറ്റി സെനറ്റ് അംഗം)
- : **ഡോ. സി. വി. ശ്രീരഞ്ജിത് കുമാർ**
- : (ഐ.ക്യൂ.എ.സി കോ-ഓർഡിനേറ്റർ)
- നന്ദി : **ശ്രീമതി. അജിത. കെ**
- : (വകുപ്പധ്യക്ഷ, മലയാളവിഭാഗം)
- : **ഡോ. ജി.ജി.എ**
- : (വകുപ്പധ്യക്ഷ, മലയാളവിഭാഗം)
- 10-1 മണി : **ഡോ. ഇ. ജയൻ**
- അദ്ധ്യക്ഷൻ : (പ്രിൻസിപ്പാൾ, വി.ടി.ബി കോളേജ്, മണ്ണൂറ്റ്)
- മുഖ്യ പ്രബന്ധാവതരണം : **ഡോ. പി. വി. നാരായണൻ**
- : (പ്രൊഫസർ, സംസ്കൃതസാഹിത്യം
- : എസ്.എസ്.യു.എസ് പയ്യന്നൂർ)
- : **സംസ്കൃതസാഹിത്യം -**
- : **സ്ത്രീപക്ഷവായനയിലെ**
- : **വീക്ഷണസീമാനങ്ങൾ**

- പ്രബന്ധാവതരണം : **ഡോ. എൻ. കെ. സുന്ദരമുഖൻ**
- : (വകുപ്പ് ഡോറാ, സംസ്കൃതവിഭാഗം,
- : കോഴിക്കോട് സർവ്വകലാശാല)
- : **“സമ്രാജ്ഞി ഭൂമിയാം വേ”**
- ചർച്ച : **രോഹൻ**
- നന്ദി : (വകുപ്പധ്യക്ഷൻ)
- 1.30 - 4.30 മണി : **ശ്രീ എം. കെ. നാരായണൻ സമ്പൂർണ്ണി**
- അദ്ധ്യക്ഷൻ : (സംസ്കൃതവിഭാഗം ഡോറാ, വി.ടി.ബി
- : കോളേജ്, മണ്ണൂറ്റ്)
- പ്രബന്ധാവതരണം : **ഡോ. പി. നാരായണൻ സമ്പൂർണ്ണി**
- : (വിദ്യാഭ്യാസപ്രൊഫസർ, കോഴിക്കോട്
- : സർവ്വകലാശാല)
- : **“സ്ത്രീപ്രത്യയവിചാരം”**
- പ്രബന്ധാവതരണം : **ഡോ. വി. ആർ. മുഹമ്മദ്**
- : (വകുപ്പ് ഡോറാ, സംസ്കൃതസാഹിത്യം
- : എസ്.എസ്.യു.എസ് കോളേജ്
- : കോഴിക്കോട് സംസ്കൃത
- : സാഹിത്യത്തിലെ സ്ത്രീസക്ഷ്മം
- : **വിമർശനം**
- ചർച്ച : **വിമർശനം**
- നന്ദി : (വകുപ്പധ്യക്ഷൻ)

Govt. Victoria College, Palakkad

Department of Statistics and Department of Mathematics

Report of four day

NATIONAL WORKSHOP ON COMPUTATIONAL MATHEMATICS AND STATISTICS

22-25 October 2018

The post graduate departments of Mathematics and Statistics, Government Victoria College, Palakkad has jointly organized a four day “**National Workshop on Computational Mathematics and Statistics**” on 22-25 October 2018 with the sponsorship of Directorate of Collegiate education, Government of Kerala. The venue was the Computer lab of Department of Statistics. The main objective of the workshop was to introduce the advanced computational techniques for the participants using demanding software’s like R and Python through interactive sessions and hands on training. The recourse persons of the programme were Dr Joby K Jose, Assistant Professor, Department of Statistical Sciences, Kannur University, Mr Rasin R S, Assistant Professor, Department of Statistics St. Thomas College (Autonomous), Thrissur, Dr Vishnu Namboothiri K, Assistant Professor, Department of Mathematics, Govt. Arts and Science College, Ambalappuzha respectively. The first two faculties led sessions on statistical software R which is the highly demanding tool for the advanced data analysis in the current time. The third recourse person has led the session on more advanced mathematical software Python and related packages. Both R and Python are increasingly attracts attention of advanced analytic field. Thus, the workshop offers an opportunity to learn all these cutting edge analytical tools of the big data era. Accordingly several participants from different areas of Kerala have attended the workshop.

The workshop was officially inaugurated on 22 October 2018 8.30 am at Smart Class room of Statistics Department. Mr Muhammed Anvar P, Coordinator and HOD, Dept. of Statistics did the welcome speech and programme concept. Dr A Safiya Beevi, Special grade Principal, Govt Victoria College, Palakkad inaugurated the programme. Felicitations were

delivered by Dr C Srinivasan, Vice Principal and HOD, Dept. of Mathematics, Ms. Maya Nair, IQAC, and Mr Rasin, R. S., Recourse person respectively. Mr Aboobacker P, Assistant Professor, Dept. of Mathematics expressed the vote of thanks.

The first session in first day of the workshop was led by Mr Rasin R S, Assistant Professor, St Thomas College, Thrissur on 9.30 am onwards, giving an introduction to R and its importance gained in nowadays. The second session from 11.15 am discussed basic aspects of data entry and graphics in R. The participants were actively engaged in morning sessions. The afternoon session started at 1.30 pm starting discussion on descriptive statistics and probability distributions in R. The final session discussed the various statistical testing of hypothesis in R and then a discussion was held. The first day ended with this discussion and enthusiastic participants were benefitted by clearing their doubts.

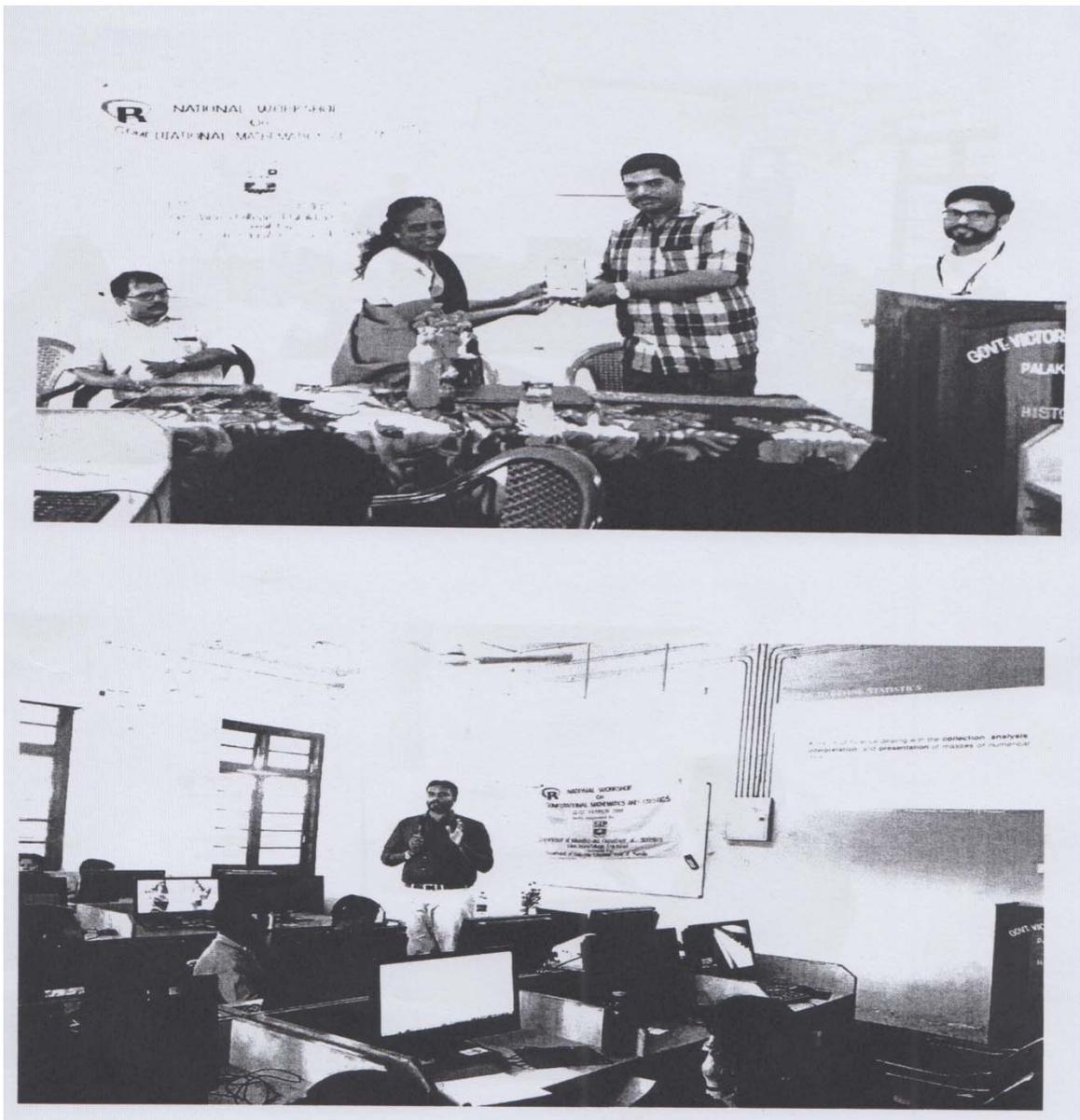
The second day schedule started at 9.300 am. This session was led by Dr Joby K Jose, Assistant Professor, Department of Statistical Sciences, Kannur University. He successfully led the concept of Correlation and Regression using simple examples and demonstrated them in R. The second session continued the previous discussion giving more concrete examples. The multivariate analysis is an important data analysis area and the third session started on 1.30 pm depicted the techniques through R. The same concept in detail was continued in the next session. As before yesterday, an interactive session was held and participants expressed their views on the topic. Thanks to Dr Joby K Jose for spending more time than scheduled, with the aspirants.

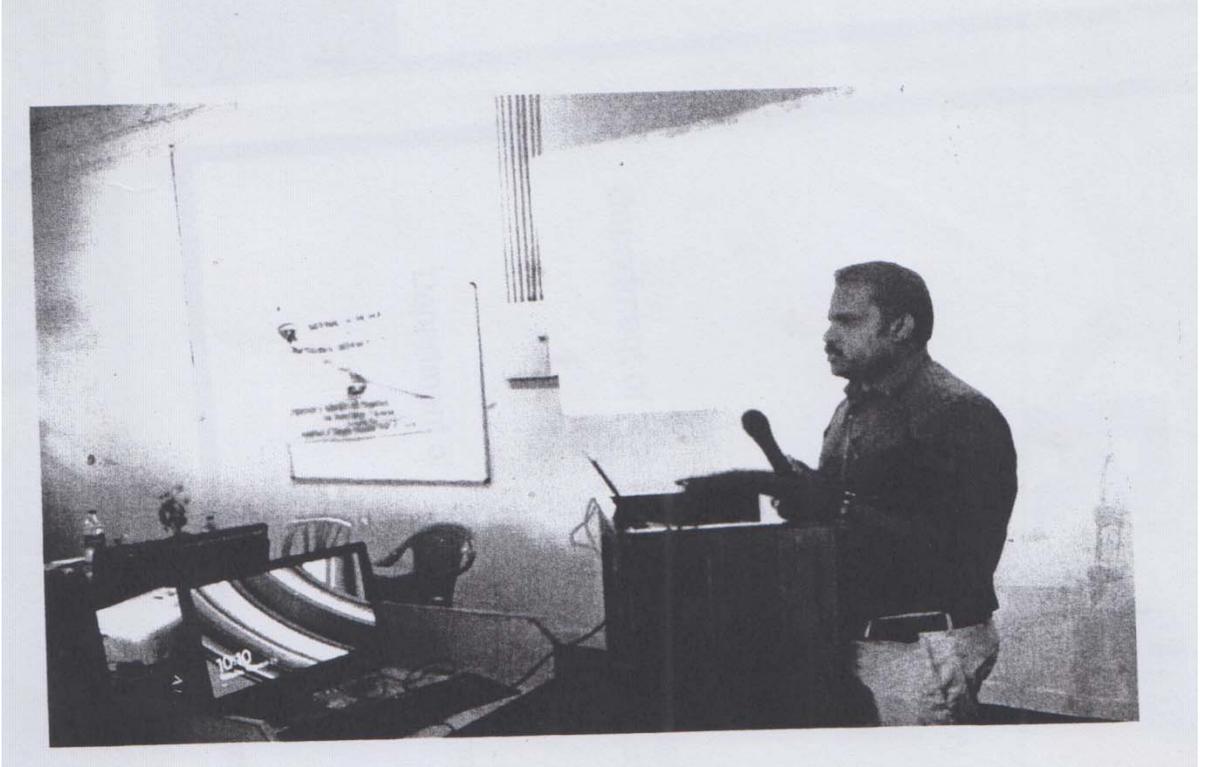
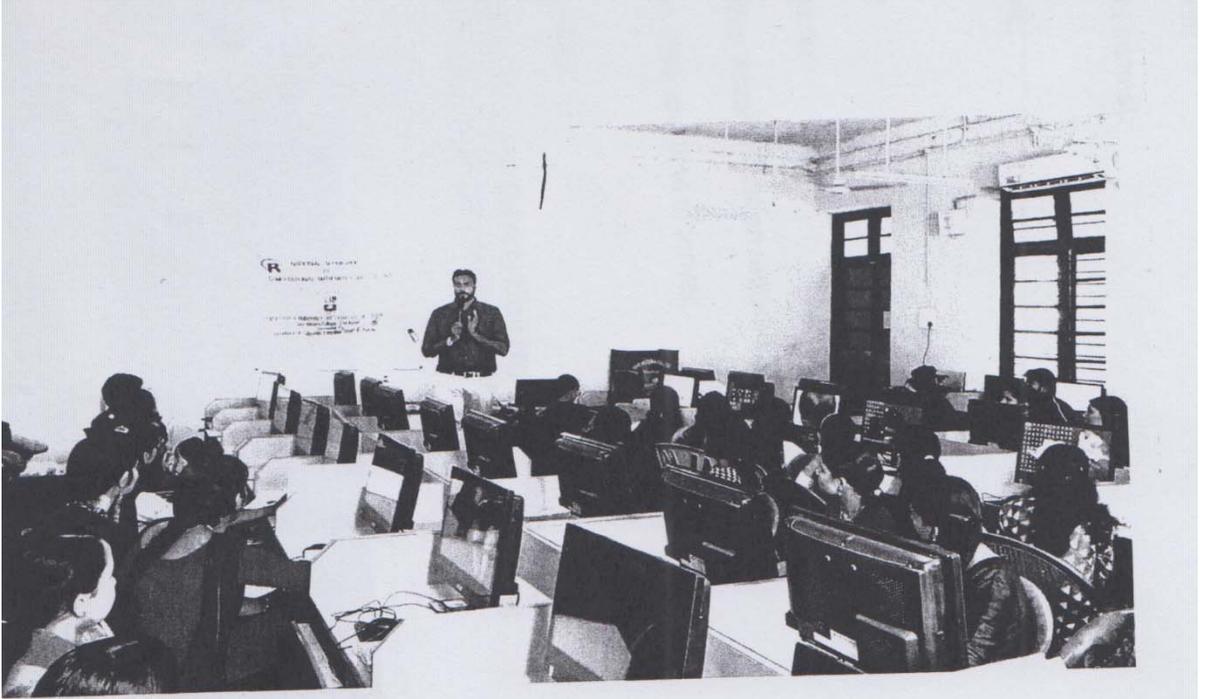
Third day of the workshop witnessed a different environment of introduction of classic but much demanding mathematical software Python. Dr Vishnu Namboothiri K, Assistant Professor, Department of Mathematics, Govt Arts and Science College, Ambalappuzha has given a nice introduction of computational mathematics and its scope in the current satiation. Second session of third day was devoted to programming with python. The recourse person showed his extraordinary knowledge in the Python programming and shared some of his programming skills to the participants. The afternoon session also discussed the programming in Python. Linear algebra and its applications are well known in applied mathematics literature. The last session discussed the same concept and its implementation in Python. The participants have really enjoyed the sessions.

The last day of the workshop discussed the non linear programming using Python in the first two sessions. Afternoon sessions were started at 1.30 pm and introduced related software

namely SAGE. The two sessions explained the mathematical analysis using SAGE software. An extensive feedback from each participant was taken and analyzed.

Valedictory session was held at 4.30 pm. Dr Suresh V, Assistant Professor and PTA secretary, Dept. of Botany presented the memento to the recourse person and distributed certificates to the participants.





Department of Tamil
Govt Victoria College, Palakkad-678001



National Seminar on
NEW TRENDS IN TAMIL FICTION

8th, 9th November 2018

Certificate

This is to certify that Dr. /Prof /Sri/Smt.....

..... has

attended/ moderate a session in the national seminar sponsored by The

Directorate of Collegiate Education, Govt.of Kerala. He/ She presented a Paper

on.....

Safiyah Beevi A.
Dr. Safiya Beevi. A
Principal



V. Ravi
Dr. V. Ravi
Co-ordinator

Sai Sree Regha
Dr.S. Sai Sree Regha
Head of the Dept

DEPARTMENTS OF ECONOMICS, STATISTICS AND POLITICAL SCIENCE

GOVT.VICTORIA COLLEGE, PALAKKAD

Report of seminar organised on 27-29, November 2018

The Departments of Economics, Statistics and Political Science Govt.Victoria College, Palakkad organised Three Day National Seminar on “ Qualitative Techniques in Social Science Research” on 27th,28th and 29th November 2018 with the financial assistance of Department of Collegiate Education, Govt of Kerala. Dr Jisha K.K co-ordinated the programme along with Dr. Princy T who was the Assistant Co-ordinator

The seminar began at 9.30 AM on 27-11-2018. The inaugural session was presided over by Dr. Safiya Beevi. A, Principal. Mr. Muhammed Anvar .P, Head of the department of Economics welcomed the gathering. The chief guest of the event was Dr. Stephy Thomas who inaugurated the seminar. Felicitation of the seminar was done by Dr. Sreenivasan, Vice Principal and Dr. C.V Sreeranjit Kumar. Dr Jisha K.K , Assistant Professor proposed the vote of thanks.

The seminar four technical sessions:

1. Introduction to statistical data analysis using SPSS: Dr. Stephy Thomas, Assistant Professor, Department of Statistics, BCM College, Kottayam delivered the keynote address and introduced the basics of statistical data analysis using the software SPSS.
2. Introduction, traditions, methods and analysis of qualitative data: Dr. Baiju Gopal, Associate Professor of Psychology, Christ (Deemed to be University), Bangalore handled the technical sessions on qualitative data where he discussed various aspects pertaining to the methods and analysis of qualitative data.
3. Quantitative vs Qualitative data and Action research: Basic principles: Dr. Manju.S Nair, Associate Professor of Economics, University of Kerala discussed quantitative versus qualitative data and introduced to the concept of Action research.
4. Introduction to qualitative data analysis software: Mr. Chinchu, Faculty of IRTC, Mundur discussed at length about qualitative data analysis.

The national seminar dealing with various aspects of the qualitative research techniques was attended by teachers and research scholars from various colleges and research institutes.



DEPARTMENTS OF ECONOMICS

GOVT.VICTORIA COLLEGE, PALAKKAD

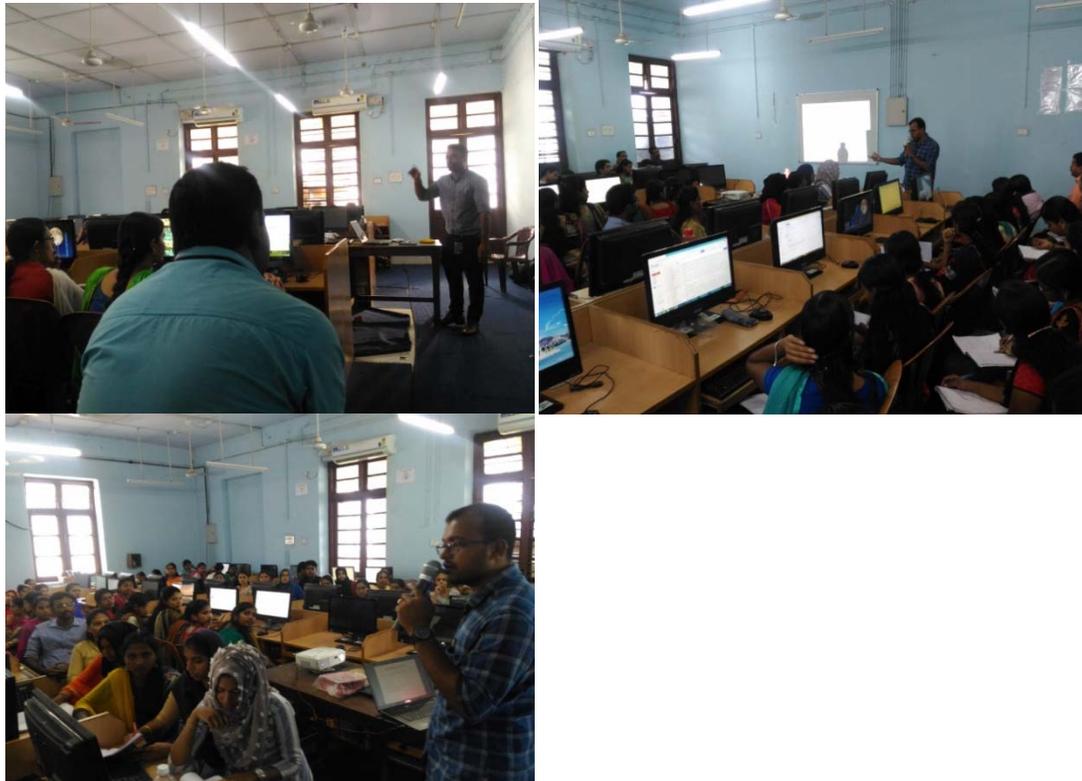
Report of national workshop organised on 24-26, September, 2018

The Department of Economics Govt.Victoria College, Palakkad organised Three Day National Workshop on “Quantitative Techniques in Social Science Research” on 24th, 25th and 26th September, 2018 with the financial assistance of Department of Collegiate Education, Govt of Kerala. Dr. Prasad M G co-ordinated the workshop.

The chief guest of the event was Dr. Sangeetha Gunashekhar, Assistant Professor, Amritha School of Business, Coimbatore who inaugurated the workshop.

The technical sessions:

- Introduction to Quantitative Techniques in Social Science Research - Dr. Sangeetha Gunashekhar, Assistant Professor, Amritha School of Business, Coimbatore delivered the keynote address and introduced the subject.
- Introduction to Basic Time Series Analysis and Application of E-views-Dr Sahadudheen I (Asst. Professor of Economics, Farook College, Calicut)
- Dummy Variable Regression Models : A Hands on Approach - Dr. Jins Varkey, Asst. Professor, Department of Economics, St. Aloysius College, Elthuruth)
- Sampling and Sampling Errors – Dr. M Sureshkumar (Joint Director, Planning Department, Thrissur)
- Issues on Citation and Plagiarism: Dr. Vinod V M, (Asst. Librarian, Research Desk, University Library, University of Calicut)



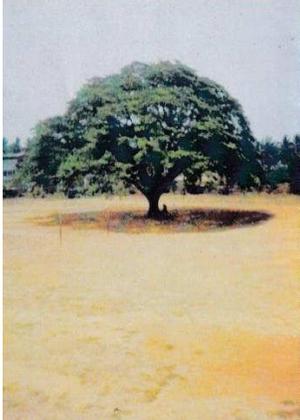
As part of Centre of Excellence Research Forum series organised by the Dept. of English, Dr. Soukaria Ghosal, Assistant Professor, Dr. NGP Arts and Science College, Coimbatore delivered a talk on Research Methods in English Studies: A Practical Approach on 17/12/2018 at 10 AM in the seminar hall of Govt. Victoria College, Palakkad. Scholars from the college as well as from other colleges as well as faculty members of Govt. Victoria College and other colleges attended the forum which was marked by a presentation by the speaker and meaningful interaction between the resource person and participants.

CORRESPONDANCE

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P.G. & RESEARCH
DEPARTMENT OF ZOOLOGY
GOVT. VICTORIA COLLEGE
PALAKKAD



WORLD ENVIRONMENT DAY
CELEBRATION 2018

SEMINAR
RETHINK ON
PLASTIC -
Small Step for
Big Change.



on
June 5, 2018
VENUE : SEMINAR HALL
GOVT. VICTORIA COLLEGE, PALAKKAD

Sponsored by
Kerala State Council for
Science, Technology & Environment
Govt. of Kerala.

If you can't Re-use it, Refuse it

Dear Sir/Madam,

You are invited to the one day seminar on 'Rethink on Plastic - Small Step for Big Change' organised by the Post Graduate and Research department of Zoology, Govt. Victoria College, Palakkad in connection with world Environment Day celebrations 2018.

As the world's population continues to grow, so does the amount of garbage that people produce. Plastic is an incredibly useful material, but it is also made from toxic compounds known to cause illness, and because it is meant for durability, it is not biodegradable. The accumulation of plastic pollutants in the environment adversely affects wild life, their habitat and even human being. Tons of plastic debris is discarded every year, everywhere polluting lands, rivers, coasts, beaches and oceans. For the good of the planet, it is time to rethink how we judiciously use plastic. India is the global host of world environment day celebrations 2018, with "Beat Plastic Pollution" as the theme for this year, the world is coming together to explore sustainable alternatives and urgently reduce the production and excessive use of single use plastic. Redesigning the "Take-Make-Dispose" economy is the only long term solution for this and that should be our prime concern.

Thus this seminar aims at providing resources to help in contributing towards the environment in the form of reducing plastic pollution whose ill effects are irreversible.

Co-ordinator HOD Zoology Principal

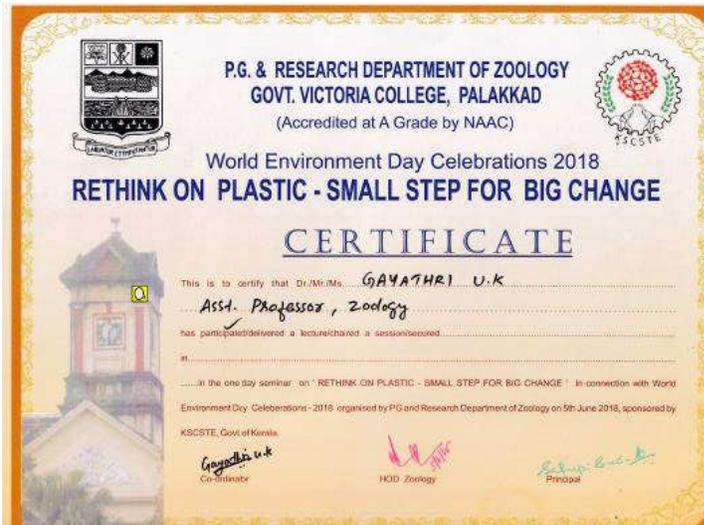
Programme

05.06.2018

- Registration : 9.30 AM.
- Inaugural Session : 10.00 AM. - 10.30 AM.
- Welcome Speech : Smt. Gayathri U.K
Asst. Professor, Zoology
- Presidential Address : Dr. C.V.Sreeranjit Kumar
H.O.D, Zoology
- Inaugural Address : Dr. A. Safiya Beevi
Special Grade Principal
Govt. Victorial College
- Felicitation : Dr. Maya C. Nair
Asst. Professor, Botany
- Technical Session : 10.00 AM. - 1.00 PM.
- Chair of the Session : Dr. K.A.Rasheed
Asst. Professor, Zoology
- Keynote Address : Dr. N.Sasidharan
Project Director
National Medicinal Plants
Board
KFRI, Peechi
- Vote of Thanks : Mr. Jain Thomas
Asst. Professor, Zoology

'Rethink on Plastic -
Small Step for Big Change'

National Anthem



**REPORT ON THE ONEDAY SEMINAR ON "RETHINK ON -
PLASTIC ; SMALL STEP FOR BIG CHANGE" - 05-06-2018
CONDUCTED BY DEPT. OF ZOOLOGY, GVC. (Work Government day)**

ലോകപരിസ്ഥിതി ദിനത്തോടനുബന്ധിച്ച് കേരള ശാസ്ത്ര സാങ്കേതിക പരിസ്ഥിതി കൗൺസിലും പാലക്കാട് വിക്ടോറിയ കോളേജിലെ സുവോളജി വിഭാഗവും സംയുക്തമായി നടത്തിയ വിവിധ പരിപാടികളുടെ റിപ്പോർട്ട്.

KSCSTE യുടെ സാമ്പത്തിക സഹായത്തോടെ Palakkad Govt. Victoria College, PG and Research Department of Zoology വിവിധ ലോകപരിസ്ഥിതി ദിനാഘോഷ പരിപാടികൾ സംഘടിപ്പിച്ചു. പ്രസ്തുത പരിപാടികൾക്ക് നേതൃത്വം നൽകിയത് സുവോളജി വകുപ്പുമേധാവി Dr.C.V.Sreeranjit Kumar ഉം Co-ordinate ചെയ്ത സുവോളജി വിഭാഗം അസിസ്റ്റന്റ് പ്രൊഫസർ Gayathri.U.K യും ആണ്.

കാര്യപരിപാടികൾ

1. കോളേജ് തലത്തിലുള്ള വിദ്യാർത്ഥികൾക്കായി ഉപന്യാസ മത്സരം
2. 04/06/18ന് 1.30 PMന് വിക്ടോറിയ കോളേജ് കുട്ടികൾക്കായി ചിത്രരചനാ മത്സരം
3. 05/06/18ന് 10.30ന് Rethnik on plastic small step for big change എന്ന വിഷയത്തിൽ സെമിനാർ

ഉപന്യാസ മത്സരത്തിനായി 'പ്ലാസ്റ്റിക്കും പരിസ്ഥിതിയും' എന്ന വിഷയത്തിൽ 5 പൂറത്തിൽ കവിയാത്ത മലയാളത്തിലുള്ള പ്രബന്ധങ്ങൾ 04/06/18നു ഉച്ചയ്ക്കു മുമ്പായി വകുപ്പു മേധാവി PG and Research Department of Zoology, Govt. Victoria College, Palakkad എന്ന വിലാസത്തിൽ എത്തിക്കണമെന്ന് പത്രമാധ്യമങ്ങളിലൂടെ അറിയിക്കുകയും അതേത്തുടർന്ന് 30 ഓളം പ്രബന്ധങ്ങൾ അയച്ചുകിട്ടുകയും ചെയ്തു. 04/06/18ന് 1.30 PMന് Govt. Victoria College വിദ്യാർത്ഥികൾക്കായി 'പ്ലാസ്റ്റിക്കും, പരിസ്ഥിതിയും' എന്ന വിഷയത്തിൽ ചിത്രരചനാ മത്സരവും സംഘടിപ്പിച്ചു. ഇരുപത്തഞ്ചോളം വിദ്യാർത്ഥികൾ പ്രസ്തുത മത്സരത്തിൽ പങ്കെടുത്തു. ഉപന്യാസ മത്സരത്തിലും, ചിത്രരചനാ മത്സരത്തിലും വിധികർത്താവായത് Govt. Victoria College മലയാള വിഭാഗം വകുപ്പുമേധാവി Smt.Ajitha.K ആണ്.

05/06/18ന് 10.30 AMന് Govt. Victoria College ൽ വെച്ച് പരിസ്ഥിതി ദിനാചരണത്തിന്റെ ഭാഗമായുള്ള സെമിനാർ 'Rethink on Plastic - small step for big change' സംഘടിപ്പിച്ചു. പ്രസ്തുത പരിപാടിയിൽ മുഖ്യാതിഥി ആയി എത്തിയത് KFRI, National Medicinal Plants Board, Project Director Dr.N.Sasidharan ആയിരുന്നു. Co-ordinator Gayathri.U.K സ്വാഗതപ്രസംഗവും സുവോളജി വകുപ്പുമേധാവി Dr.C.V.Sreeranjit Kumar അദ്ധ്യക്ഷപ്രസംഗവും നടത്തി. തുടർന്ന് ഈ ചടങ്ങിന്റെ ഔദ്യോഗികമായ ഉദ്ഘാടനം നിർവ്വഹിച്ചത് Govt. Victoria College Principal Dr.A.Safiyabeevi ആയിരുന്നു. പരിപാടിക്ക് ആശംസകൾ അർപ്പിച്ചുകൊണ്ട് Govt. Victoria College Vice Principal Manjula, Botany Department H.O.D Dr.Leena, ഭൂമിശാസ്ത്ര Co-ordinator Dr.A.R.Remi എന്നിവർ പ്രസംഗിച്ചു.

REPORT ON THE BEAT PASTIC POLLUTION PROJECT
 SUBMITTED BY DEPT. OF ZOOLOGY
 GOVT. VICTORIA COLLEGE, PALAKKAD
 DATE: 5.6.2018

തുടർന്ന് KFRI, National Medicinal Plants Board Project Director Dr.Sasidharan ഈ വർഷത്തെ ലോകപരിസ്ഥിതി ദിനത്തെ കുറിച്ച് 'Beat Pastic pollution' എന്ന വിഷയത്തിൽ പ്രഭാഷണം നടത്തി. പ്ലാസ്റ്റിക്കിന്റെ ഉപയോഗപ്രദമായ രൂപാന്തരങ്ങളെക്കുറിച്ച് അദ്ദേഹം സൂചിപ്പിച്ചു. പ്ലാസ്റ്റിക്കിന്റെ ഉത്ഭവം മുതൽ ഉപയോഗത്തിലുണ്ടായ വലിയ വ്യാപ്തിയും അതുമൂലമുണ്ടായ മാലിന്യപ്രശ്നങ്ങളും അത് പരിസ്ഥിതിയിലേൽപ്പിക്കുന്ന ആഘാതത്തിന്റെ വ്യാപ്തിയും അദ്ദേഹം സദസ്സിനെ ബോധ്യപ്പെടുത്തി. പ്ലാസ്റ്റിക്കിന്റെ ദുരുപയോഗം തടയുന്നതിനായി നിത്യജീവിതത്തിൽ പാലിക്കാവുന്ന കാര്യങ്ങളെക്കുറിച്ചും പ്രായോഗികമായ നിർദ്ദേശങ്ങൾ അദ്ദേഹം നൽകി.

തുടർന്ന് പരിസ്ഥിതി ദിനാഘോഷത്തിന്റെ ഭാഗമായി നടത്തിയ ഉപന്യാസമത്സരം മത്സരത്തിലേയും, ചിത്രരചനാ മത്സരത്തിലേയും വിജയികളെ പ്രഖ്യാപിക്കുകയും അതിനുശേഷം അവർക്കുള്ള സമ്മാനദാനം നിർവ്വഹിക്കുകയും ചെയ്തു.

വിജയികൾ

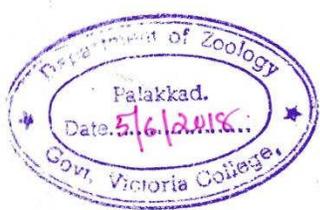
ഉപന്യാസമത്സരം

- ഒന്നാം സമ്മാനം : Krishnapriya.K Second Year B.Sc. Physics, Govt. Victoria College, Palakkad
- രണ്ടാം സമ്മാനം : Aromal Suby Stephan, Third Year B.Sc.Physics, Mercy College, Palakkad

ചിത്രരചനാ മത്സരം

- ഒന്നാം സമ്മാനം : Anju.M 4th Sem. M.S.c Zoology, Govt. Victoria College, Palakkad
- രണ്ടാം സമ്മാനം : Dinanath 2nd year B.Sc. Zoology, Govt. Victoria College, Palakkad

PG and Research Department of Zoology Assistant Professor Mr.Jain Thomas നടത്തിയ നന്ദിപ്രകാശനത്തോടുകൂടി സെമിനാർ അവസാനിപ്പിച്ചു.




 Head of the Department of Zoology
 Govt. Victoria College, Palakkad

The Post Graduate Department of History, Govt, Victoria College Palakkad organized a three Day National Workshop on Revisiting South Indian Studies from 23rd to 25th October 2018. Faculties from Government Colleges, aided colleges, Research scholars, postgraduate students from other colleges, public and teachers from Govt. Victoria College Palakkad participated in the workshop.

The Inaugural address was given by the Historian Dr. P.K. Sreekumar, Research Supervisor and Guide Dravidian University, Kuppam. Dr. P.P Abdul Razak, Dept of History PSMO College Thirurangadi, Dr. V.V Haridas Dept. of History University of Calicut, Sri. P.S Manojkumar Asst. Prof of History Sri C Achuthamenon Govt. College Kuttanellur., Dr. K.S. Madhavan Asst. pro. Dept of History University of Calicut, Dr., M.R Manamathan Asst. Pro. Dept of History Farook College Kozhikode, by Dr. K.P Rajesh, Asst. pro. of History, NSS College Manjer Dr. Sivadasan .P Asst. Pro. Dept. of History, University of Calicut, Dr. Kamalveni Asst. professor Dept. of Women Studies Bharathiyar University, and Dr. Beena Paul, from Henry Baker College also led the discussions on three day workshop.

SASTRAJALAKAM 2018

Govt. Victoria College, Palakkad

A Three Day Science Workshop was held at Govt. Victoria College, Palakkad on 24th, 25th, 26th November 2018. The students from different schools of 9th standard participated in the workshop. The programme for the school students meant to inculcate scientific awareness, whereby they can utilize new scientific technologies and also can enhance their ability and vision towards science.

Day 1

The inaugural session were started with 10 pm as the principal of Govt Victoria College Dr. Safiyabeevi presided over the function with an elegant presidential address to the students keenly motivating them to the progamme. Dr Suresh Asst Professor, Dept of Botany and the secretary to the PTA made the welcome speech pointing the present age need of scientific temper. The IIT Director Sunil Kumar made the inaugural address. He logically explained what science is with examples from life situations.

Basic Optics

Sunitha Ganesh

The first technical session on Basic Physics was lead by Mrs. Sunitha Ganesh from the Dept of Physics. She explained the basic phenomenon of physical principles with a motivating talk to the students. The session was so interactive that the students were thoroughly enjoyed the talk with their doubts.

Dr. Pradeesh V

Asst Professor Physics

The second session was about the Recent Development in Physics. Dr. Pradeesh made it so simple through the developments in photonics. He made the session so lively by showing recent videos of the developments and modern physics. The students were enthusiastic to be enquiring more about the latest findings in photonics and light evolution.

After having the lunch they were entered into the Physics Lab. Total students were grouped into 6 each, having separate experimental set up to work with. After completing each experiment they were exchanged for the other set of experiments. The lab sessions were continued till 5.30 pm. The tea and snacks were supplied to the lab during their practical session. After the practical sessions students were allowed to enjoy the beauty of campus. The volunteers of the college union joyfully entertained the Sastrajalakam students to each and every corners of the century old grand heritage college. The clock tower, the colonial buildings of the college, the old grandma tree of the ground together with the paintings of the students on campus wall was well appreciated by the students. Having a light refreshments they were mingled with an interactive session by an ASAP trainer. It was very interested to the students with science gaming. They all were actively participated in the session.

Later having the dinner from the college campus itself they were accommodated at the Shikshaksadan at Palakkad. They were transported by the college bus itself.

Day 2

Second day morning session was started with Chemistry classes. Basic chemistry was dealt by Dr. Ramesh – Journey into the wonderful world of chemistry. He explained the chemistry in life with simple examples from our day to day life situations. He explained the topic with power point presentations. He also discussed how the chemistry entering into our life, through food, transport and other such activities usually we follow in present days.

The applied level chemistry was dealt with Dr. Shantil - Nano is not so small. He focused mainly on Nanotechnology. He elaborated the basic principles of nano technology to its advanced level of application. He also made some instant demonstration of nano particle formation during the class.

After this session the students were taken into the Botany dept where they visited the Botany museum of enormous plant species both preserved and fresh ones. The herbarium specimens were also shown them. Later they were incorporated in the laboratory equipment session with minor experiments.

After having lunch the groups were involved with their chemistry practical session at the Dept of Chemistry. Practical session were maintained in such a way that

almost all the student got an opportunity to experience with the basic chemical reactions. Evening after having the tea break they had short recreational activity. Around 6'o clock the next session on science career was dealt by Dr. Lakshmi Priyadarsini. It was about the future prospectives in science including the technological realm together with research opportunities.

After the session was over they had their dinner and made a camp fire with cultural activities arranged by the college union itself. It was actually a joyful interaction from the students who were not known before this event. They all enjoyed it and returned to the Shikshak sadan by the college bus.

Day 3

Third and final day began with biological exposure to the museum of the zoology department. They felt the living world by Dr. Rasmi about the exploring biology focused into the magic and miracles of life sciences. The second session was about new horizon in biology by Dr Sreeranjit Kumar. Both the sessions on basic natural and life sciences and recent developments were so interactive and the students enjoyed it. They interacted with more questions, and clarifications were made by the faculties. Finishing the tea break they were went to the biology practical sessions at Dept of Zoology. It extends even after the lunch break. Blood analysis, blood grouping, Chromatographic experiment were performed in groups.

The valedictory session was inaugurated by the former Kairali channel Director Sri. T. R. Ajayan presided by the college Principal, Dr.Safiyabeevi. The certificates and TA were given to the students. The welcome speech was delivered by the Vice Principal Dr Sreenivasan and the Vote of thanks by the Programme coordinator Dr. Abdul Rasheed. And the programme went well successfully. Students dispersed with a hopeful heart and great scientific temperament in their mind. The event provided a platform for the budding students to express their views and gain scientific knowledge and confidence.

DR. K.ABDUL RASHEED, PROGRAMME CO ORDINATOR

SASTRAPADAM, GOVT VICTOIA COLLEGE,PALAKKAD.

Title: Three Day Workshop on Techniques in Molecular Biology

Start Date: 29.10.2018

End Date: 31.10.2018

Total Number of participants: 38

Brief Report

The three day workshop on techniques in molecular biology organized by Department of Botany Govt. Victoria College Palakkad and sponsored by the Department of Collegiate education started on October 29, 2018 in the department. In the simple inaugural session, Coordinator Dr. Suresh V welcomed the distinguished faculty and research scholars from various colleges across Kerala. It was followed by a Presidential address by Dr. KR Leena where she emphasized the importance of molecular Biology in the present scenario. In the Inaugural address principal Dr. Safiya Beevi stressed on the importance of conservation and the mathematics that linkage of Botany. It was followed by felicitations by sister department heads and IQAC member. Mr. Allen Alex Philip proposed vote of thanks. After the inaugural session, a break was taken and first session was begun at 10.15am on General Lab Practices in Molecular Biology handled by Mr. Tojo G Tharayil, Director(DRP Molecules Pvt Ltd, KRIBS Bionest KSUM_RGCB)Kinfra Hi Tech Park Kochi. A detailed session was held on pipetting, gradation of pipettes, its calibrations and its working. Participants were made into two groups and one group isolated bacterial DNA and one group started to isolate the plant DNA according to the given protocol. DNA was isolated and an agarose gel was casted to confirm the presence of DNA. After the lunch at 2.15 pm the next session was on Biotechnological tools for genome analysis by Dr. Babu T D Associate Professor, Department of Biochemistry, Amala Cancer Research Center Thrissur. He explained about molecular techniques like RFLP,RAPD AFLP etc. and on Molecular markers. By this time the gel running

was complete and we viewed it on UV illuminator. The group that worked with plant DNA got voluminous amount of DNA. The first day ended on the discussions on the result.

The day II started with the evaluation of the gel casted and the expert Tojo G Tharayil explained about procedures. By 11.00 am a session on protein identification was conducted by Dr. Achuthan C R Associate Professor Dept. of Biochemistry, Amala Cancer Research center. He explained about electrophoresis in detail, its principle and working. After the lunch break we reassembled for group photo. After that PCR mixture for DNA amplification was prepared. Mr Tojo explained the parts of the PCR. Later that day bacterial DNA amplification program was run.

On the third day, session on different types of PCR was there at 9.45am. After that agarose gel was casted for testing the amplification of DNA. The gel was run and the result was obtained. Thereafter the purification of PCR samples was done with standard procedure for sequencing. The ways in which DNA base pair length was assumed using the marker was explained. Finally Mr Tojo explained the precautions that one must take while working in molecular biology lab.

The three day workshop ended with valedictory session after lunch. In the function many participants shared their experience of three days.

The three days was informative and refreshing for all the participants.



THREE DAY WORKSHOP ON TECHNIQUES IN MOLECULAR BIOLOGY

On
**OCTOBER
29,30 & 31
2018**

Sponsored By
**Department of Collegiate
Education
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Organized By:
**DEPARTMENT OF BOTANY
GOVT. VICTORIA COLLEGE, PALAKKAD**



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Use the Link:
<https://tinyurl.com/gvcworkshop2018>

Or
Contact:
8547363449

Patron: Dr. Safiya Beevi A,
(Principal)
Convener: Dr. K R Leena . (HOD)
Coordinator: Dr. Suresh V,
(Assistant Professor)

Organising Committee:
Dr. A R Rasmi, (Assistant Professor)
Dr. Leeja L, (Assistant Professor)
Mr. Alen Alex, (Assistant Professor)
Mr. Anvar K, (FIP Substitute Lecturer)
Mrs. Akhila P M, (Guest Faculty)
Mrs. Remya S, (Guest Faculty)

PROGRAMME SCHEDULE

DAY 1 29.10.2018

| Time | Session | Resource Person |
|-------------|--|---|
| 8.30 | Registration & Inauguration | |
| 9.00-10.30 | General Lab Practices in Molecular Biology and Reagent Preparation | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |
| 10.30-12.00 | Biotechnological Tools For Genome Analysis | Dr. Babu TD , (Associate Professor, Department of Biotechnology, Amala Cancer Center, Thrissur) |
| 12.00-01.30 | Isolation of Genomic DNA from Bacteria and Plants | Dr. Babu TD , (Associate Professor, Department of Biotechnology, Amala Cancer Center, Thrissur) |
| 1.30-2.00 | Lunch Break | |
| 2.00-3.30 | Basics for Gel Electrophoresis | Dr. Babu TD , (Associate Professor, Department of Biotechnology, Amala Cancer Center, Thrissur) |
| 3.30-5.00 | Agarose Gel Electrophoresis, Gel Running, Results and Discussion | Dr. Babu TD , (Associate Professor, Department of Biotechnology, Amala Cancer Center, Thrissur) |

DAY 2 30.10.2018

| Time | Session | Resource Person |
|-------------|--|--|
| 9.00-10.30 | Basic Concepts For PCR | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |
| 10.30-12.00 | Running PCR Reaction | Dr. Achuthan CR , (Associate Professor, Department of Biochemistry, Amala Cancer Center, Thrissur) |
| 12.00-01.30 | Genomics and Proteomics- Significance of PCR and Gel Electrophoresis | Dr. Achuthan CR , (Associate Professor, Department of Biochemistry, Amala Cancer Center, Thrissur) |
| 1.30-2.00 | Lunch Break | |
| 2.00-3.30 | Different Types of PCR | Dr. Achuthan CR , (Associate Professor, Department of Biochemistry, Amala Cancer Center, Thrissur) |
| 3.30-5.00 | PCR Purification, Gel Extraction Techniques for Sequencing and Further Studies | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |

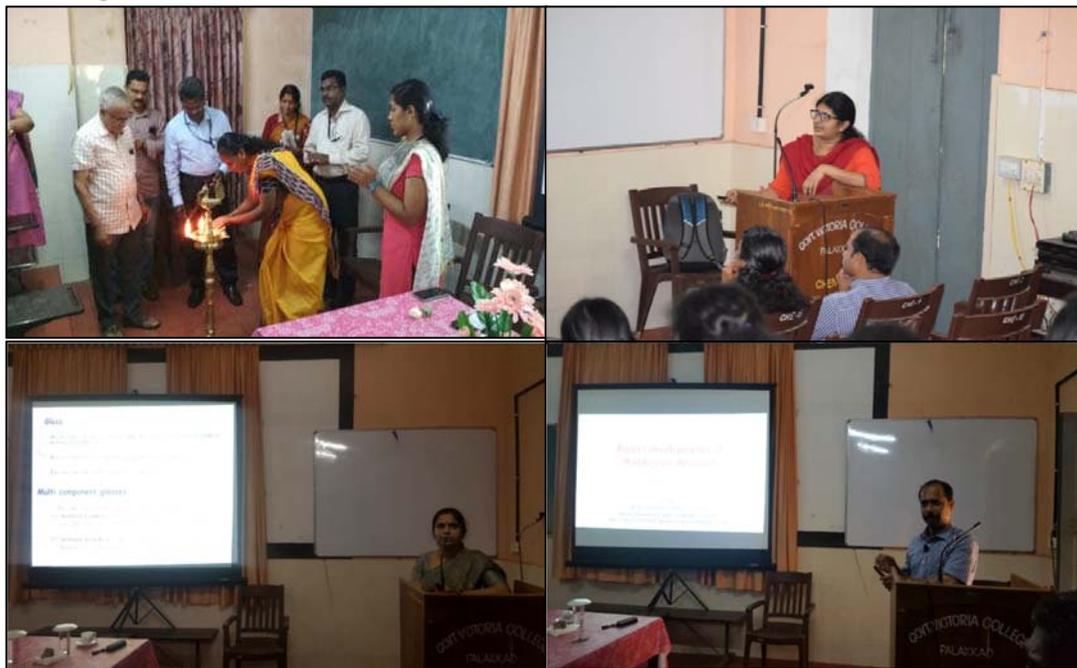
DAY 3 31.10.2018

| Time | Session | Resource Person |
|-------------|--|---|
| 9.00-10.30 | Sequencing - Types and Protocol | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |
| 10.30-12.00 | Preparation of Samples for Sequencing | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |
| 12.00-01.30 | Demonstration of Sequencing Reaction | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |
| 1.30-2.00 | Lunch Break | |
| 2.00-3.30 | Introduction to Bioinformatic Analysis | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |
| 3.30-5.00 | Sequence Analysis for Phylogenetics and Genomics | Mr. Tojo G Tharayil , (Director, DRP Molecules Pvt Ltd, KSUM-RCGB, Kinfra Hitech Park, Kochi) |
| 5.00-5.30 | Concluding Session | |

Seminar Report

Department of Physics, Govt. Victoria College, Palakkad, organised a two day national seminar on “**Theoretical Physics and Material Science**” on **04-10-2018 to 05-10-2018** at Chemistry Seminar hall, with the financial support from the Directorate of Collegiate Education, Govt. of Kerala. The prime objective of the seminar was to familiarize the participants with the basics of Statistical Mechanics and with some interesting puzzles in various fields in physics. The seminar also proposed to introduce recent developments in certain areas of material research like photovoltaics, polymer gel electrolytes, glass ceramics etc.

Seminar was inaugurated by Dr. V.M Nandkumaran, Principal, Arts and Science College, Amritha Viswa Vidyapeetam, Amrithapuri Campus (Retired professor from the Cochin University of Science and Technology). Prof. O.K. Ramesan, Head of the department of Physics, welcomed the resource persons and participants and the principal Dr. Safia Beevi A presided the inaugural function. Dr. Santhi V, Head of the department of Chemistry and Dr. Sreeranjith N , Coordinator IQAC felicitated the seminar. About 45 teaching faculties and 80 students from various colleges attended the seminar. There were five resource persons; Dr. V. M Nandakumaran, (Principal, Arts and Science College, Amritha Viswa Vidyapeetam, Amrithapuri Campus, Retired professor from the Cochin University of Science and Technology) and Dr. N. Shaji (Retired Principal, T. M. Jacob Memorial Govt. College, Manimalakunnu) handled two sessions each on 4th October 2018. Dr. Saji K J (Cochin University of Science and Technology), Dr. Sindhu S (Uty. Of Calicut) and Dr. Anjana P.S (All Saints College, Thiruvananthapuram) handled sessions on 5th October 2018. The seminar came to an end with a brief valedictory function. The coordinator of the seminar, Dr. Tony Joseph thanked all, who made the event a huge success.



Department of English

Govt Victoria College, Palakkad

Report of Seminar organized on 15-16, October 2018

The department of English, Govt Victoria College, Palakkad organized “**Thought Machines: National Seminar on Technomateriality and Humanities**” on **15-10-2018 and 16-10-2018** with the financial assistance of Department of collegiate education, Govt of Kerala. Dr Sreepriya R co-ordinated the program with the support of other members of the department.

The seminar began at 9.30 AM on 15/10/2018. The inaugural session was presided over by Dr Sreenivasan, Principal- in-charge. Manjula P P, Head of the Department of English welcomed the gathering. Dr Sreepriya R, co-ordinator of the seminar presented the concept note. The chief guests of the event were the keynote speakers, Dr Naveen Thayyil and Dr. T T Sreekumar. Maya Nair, Assistant HoD proposed the vote of thanks.

The Seminar had 4 technical sessions:

- 1) Science and Technology: Policies and Predicaments
- 2) Art Literature and Technology
- 3) Techno-politics, Culture and Economy
- 4) Digital Humanities

The keynote speaker for the first day was Dr Naveen Thayyil, Assistant Professor, School of Social Sciences and Humanities, IIT Delhi. Dr Naveen spoke on “Citizenship in the times of Big Data: Ecology and the Knowledge question” Dr T T Sreekumar, Professor, Department of Communications, English and Foreign Languages University chaired the session. After the keynote, in two parallel sessions, various papers discussing the domain were presented by faculty and scholars from universities and departments across India.

Dr Susan George from Jesus and Mary College, Delhi presented a paper on “The Industrialization of Memory”. Asha C from Govt Arts and Science, Thiruvananthapuram gave a paper on “Post Humanism and the cyborgian Paradigm”. Ahammed Junaid from Amity University spoke on “Networked publics”. Dr Saji KS and Shine P S from BP Catholicos College, Piravom gave a paper on “New Media and Visual Subjects”. Other presenters include Reji AL from MES College, Malappuram, Razeena PR from Govt College, Thrissur and Indulekha R, Nehru Arts and Science College, Kanjangad.

In the second session, Vipin Vijay, Film maker and Head of the department of Visual Arts, K R Narayanan Institute of Visual Science and Arts presented an invited plenary on “Thought of the cinematographic Image” Prof V Vijayakumar, Department of Physics, Govt Victoria College,

chaired the session. Following the plenary there was an invited panel on the topic “Technological Fiction: Discovering New Spaces.” Rahul Radhakrishnan and Vivek Chandran, Literary critics and writers were the discussants.

The keynote speaker for the second day was Dr T T Sreekumar, Professor, EFLU, Hyderabad. He spoke on “Fourth Industrial revolution and the Contestations of Digital Capitalism” Dr Naveen Thayyil chaired the session. Following the keynote, Priyadarshini, Documentary Film maker represented Dalit camera to deliver a plenary on the topic “Dalit Camera: Sidelining the Mainstream” Prasanth K V, Assistant Professor, Govt College, Kozhinjambara chaired the session.

In the fourth session Damodar Prasad, Director of the Electronic MultiMedia Research Center of Calicut University delivered the plenary on the topic “Immaterializing Humanities: How is the digital reshaping the discipline” Dr Sreepriya R chaired the session. Following this, Vivek Chandran, author and short story writer led an interactive discussion on “Conceptualizing science-fiction” The session was chaired by Rahul Radhakrishnan.

In the valedictory session, Manjula P P, Head of the department distributed the certificates to the presenters and participants. The seminar concluded at 5.30 PM on 16/10/2018

Programme

Monday 15/10/2018

| | |
|----------------------|--|
| 8.30 AM to 9.30 AM | : Registration |
| 9.30 AM to 10 AM | : Inaugural Session |
| Welcome | : Manjula P P Associate Professor and HoD |
| Concept Note | : Dr Sreepriya R Department of English |
| Presidential Address | : Dr Safiya Beevi A Principal, Govt. Victoria College |
| Vote of thanks | : Maya Nair Department of English |

THOUGHT MACHINES: NATIONAL SEMINAR ON TECHNOMATERIALITY AND HUMANITIES

About the Seminar

The need to integrate technology to humanities is largely interpreted as a kind of answer to the crisis within humanities, as the discipline is forced to sustain itself in the neo-liberal, info-capitalist regime. But there are definite indicators to show that in their genesis and evolution, new technologies are confronting, contemplating and challenging many aspects that are vital to the discipline of humanities. Distributed across disciplines like digital humanities, science and technology studies, philosophy of science, new media and web studies and information and communication studies, there is a growing need that now pervades contemporary humanities, to collectively interrogate the role played by technomateriality, on the machination of thought. The conference explores how thought is constituted /obscured through material processes, knowledge and communication networks, laboratories, print and digital archives, legal discourses and academic methodologies.

Tuesday 16/10/2018

Session 3 TECHNO-POLITICS, MEDIA AND ECONOMY

10 AM to 11.30 AM

Keynote : Dr T T Sreekumar
The English & Foreign Languages
University, Hyderabad

Fourth Industrial Revolution and the Contestations of
Digital Capitalism

11.45 AM to 12.45 PM

THOUGHT MACHINES: NATIONAL SEMINAR ON TECHNOMATERIALITY AND HUMANITIES

15-16 October 2018



PG & Research Department of English
Government Victoria College
Palakkad

Sponsored by



The Directorate
of Collegiate Education
Government of Kerala

Dear Friends,

Welcome to
Thought Machines : National Seminar on
Technomateriality and Humanities
organized by
The Department of English
Government Victoria College, Palakkad
on October 15 & 16, 2018.

Manjula PP
Head of the Department

Dr. Sreepriya R
Coordinator
Mob:9496294138
Mail: sreebala.priya@gmail.com

shini

break

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SIR M KRISHNAN NAIR GATE

GOVT. VICTORIA COLLEGE

THE PG AND RESEARCH DEPARTMENT OF ENGLISH
GOVERNMENT VICTORIA COLLEGE PALAKKAD-678001
**THOUGHT MACHINES:
NATIONAL SEMINAR ON
TECHNOMATERIALITY AND HUMANITIES**
15-16 October 2024
Organized by: The Directorate of College Education, Government of Kerala.

Govt. Victoria College, Palakkad

Department of Statistics and Department of Mathematics

Report of four day

NATIONAL WORKSHOP ON COMPUTATIONAL MATHEMATICS AND STATISTICS

22-25 October 2018

The post graduate departments of Mathematics and Statistics, Government Victoria College, Palakkad has jointly organized a four day “**National Workshop on Computational Mathematics and Statistics**” on 22-25 October 2018 with the sponsorship of Directorate of Collegiate education, Government of Kerala. The venue was the Computer lab of Department of Statistics. The main objective of the workshop was to introduce the advanced computational techniques for the participants using demanding software’s like R and Python through interactive sessions and hands on training. The recourse persons of the programme were Dr Joby K Jose, Assistant Professor, Department of Statistical Sciences, Kannur University, Mr Rasin R S, Assistant Professor, Department of Statistics St. Thomas College (Autonomous), Thrissur, Dr Vishnu Namboothiri K, Assistant Professor, Department of Mathematics, Govt. Arts and Science College, Ambalappuzha respectively. The first two faculties led sessions on statistical software R which is the highly demanding tool for the advanced data analysis in the current time. The third recourse person has led the session on more advanced mathematical software Python and related packages. Both R and Python are increasingly attracts attention of advanced analytic field. Thus, the workshop offers an opportunity to learn all these cutting edge analytical tools of the big data era. Accordingly several participants from different areas of Kerala have attended the workshop.

The workshop was officially inaugurated on 22 October 2018 8.30 am at Smart Class room of Statistics Department. Mr Muhammed Anvar P, Coordinator and HOD, Dept. of Statistics did the welcome speech and programme concept. Dr A Safiya Beevi, Special grade Principal, Govt Victoria College, Palakkad inaugurated the programme. Felicitations were

delivered by Dr C Srinivasan, Vice Principal and HOD, Dept. of Mathematics, Ms. Maya Nair, IQAC, and Mr Rasin, R. S., Recourse person respectively. Mr Aboobacker P, Assistant Professor, Dept. of Mathematics expressed the vote of thanks.

The first session in first day of the workshop was led by Mr Rasin R S, Assistant Professor, St Thomas College, Thrissur on 9.30 am onwards, giving an introduction to R and its importance gained in nowadays. The second session from 11.15 am discussed basic aspects of data entry and graphics in R. The participants were actively engaged in morning sessions. The afternoon session started at 1.30 pm starting discussion on descriptive statistics and probability distributions in R. The final session discussed the various statistical testing of hypothesis in R and then a discussion was held. The first day ended with this discussion and enthusiastic participants were benefitted by clearing their doubts.

The second day schedule started at 9.300 am. This session was led by Dr Joby K Jose, Assistant Professor, Department of Statistical Sciences, Kannur University. He successfully led the concept of Correlation and Regression using simple examples and demonstrated them in R. The second session continued the previous discussion giving more concrete examples. The multivariate analysis is an important data analysis area and the third session started on 1.30 pm depicted the techniques through R. The same concept in detail was continued in the next session. As before yesterday, an interactive session was held and participants expressed their views on the topic. Thanks to Dr Joby K Jose for spending more time than scheduled, with the aspirants.

Third day of the workshop witnessed a different environment of introduction of classic but much demanding mathematical software Python. Dr Vishnu Namboothiri K, Assistant Professor, Department of Mathematics, Govt Arts and Science College, Ambalappuzha has given a nice introduction of computational mathematics and its scope in the current satiation. Second session of third day was devoted to programming with python. The recourse person showed his extraordinary knowledge in the Python programming and shared some of his programming skills to the participants. The afternoon session also discussed the programming in Python. Linear algebra and its applications are well known in applied mathematics literature. The last session discussed the same concept and its implementation in Python. The participants have really enjoyed the sessions.

The last day of the workshop discussed the non linear programming using Python in the first two sessions. Afternoon sessions were started at 1.30 pm and introduced related software

namely SAGE. The two sessions explained the mathematical analysis using SAGE software. An extensive feedback from each participant was taken and analyzed.

Valedictory session was held at 4.30 pm. Dr Suresh V, Assistant Professor and PTA secretary, Dept. of Botany presented the memento to the recourse person and distributed certificates to the participants.

Registration form

Name:

Designation:

Institution:

Areas of interest:

Address:

Email:

Phone no:

Whether accommodation required or not

If yes, date and time of arrival:

Signature:

NB: Please send the duly filled registration form by post or e-mail to reach the coordinator on or before 17.10.18

CONTACT DETAILS:

Muhammed Anvar P : +91 9048342009 (muhammedanvarp@gmail.com)
boobacker P : +91 9446085684 (backer83@gmail.com)

**NATIONAL WORKSHOP
On
COMPUTATIONAL MATHEMATICS AND STATISTICS**

22- 25, OCTOBER 2018



Jointly organized by



Department of Mathematics and Department of Statistics
Govt. Victoria College, Palakkad

Sponsored By:

Department of Collegiate Education, Govt of Kerala

About the College

The Govt Victoria College, Palakkad, which got established in the year 1888 is one of the four heritage educational institutions and centre of excellence in the educational sector of Kerala, aiming at training, guiding, inspiring, motivating and leading young men and women to become successful leaders to serve the country better. The campus in its life nurtured and brought up a number of leaders, professionals, artists, novelists, and poets during the last 129 years. We focus on discovering, developing and drawing out the hidden talents and the magic lying dormant inside all of its students. From academics to co-curricular activities, perseverance and a never-say-die spirit are entrenched in the heart of every student not only making them good students, but brilliant human beings.

About the Department of Mathematics

Right from its inception, the department of Mathematics has strived to contribute to the development of the college, with its high objectives and dedicated effort from its faculty. The department offers UG and PG courses apart from the subsidiary courses. The department takes pride to have been instrumental in producing highly qualified and motivated Mathematicians all through these years.

About the Department of Statistics

The department of Statistics was established in 1957. It offers PG course in Statistics and subsidiaries in various disciplines. Several of its alumni are well placed in government as well as in private sectors. The department is providing consultancy services in statistical data analysis, Statistical Software training and clarification of Statistical concepts. The department was successful in the value addition of students in transforming them to the knowledge assets of the society.

About the Workshop

In the era of modern computational mathematics, we aim to equip the faculty members with the most advanced and popular Mathematical and Statistical software's Python and R. The workshop is mainly intended to equip the teachers, research scholars and students with practical knowledge in both Python and R. As the number of participants is limited, applicants should submit their registration as soon as possible on or before 17-10-18. The department of Mathematics and Department of Statistics, Govt Victoria College, Palakkad is jointly organizing a four-day "National Workshop on Computational Mathematics and Statistics" on 22-25 October 2018 with the sponsorship of the Directorate of Collegiate Education, Government of Kerala. Participation from your institution is earnestly solicited.

Resource persons

Dr. Achy K. Jose (Kannur University),
Dr. Rasin R. G. (St. Thomas College(Autonomous), Thrissur),
Dr. Valsara Nambathoor K. (Govt. College, Arattupuzha)

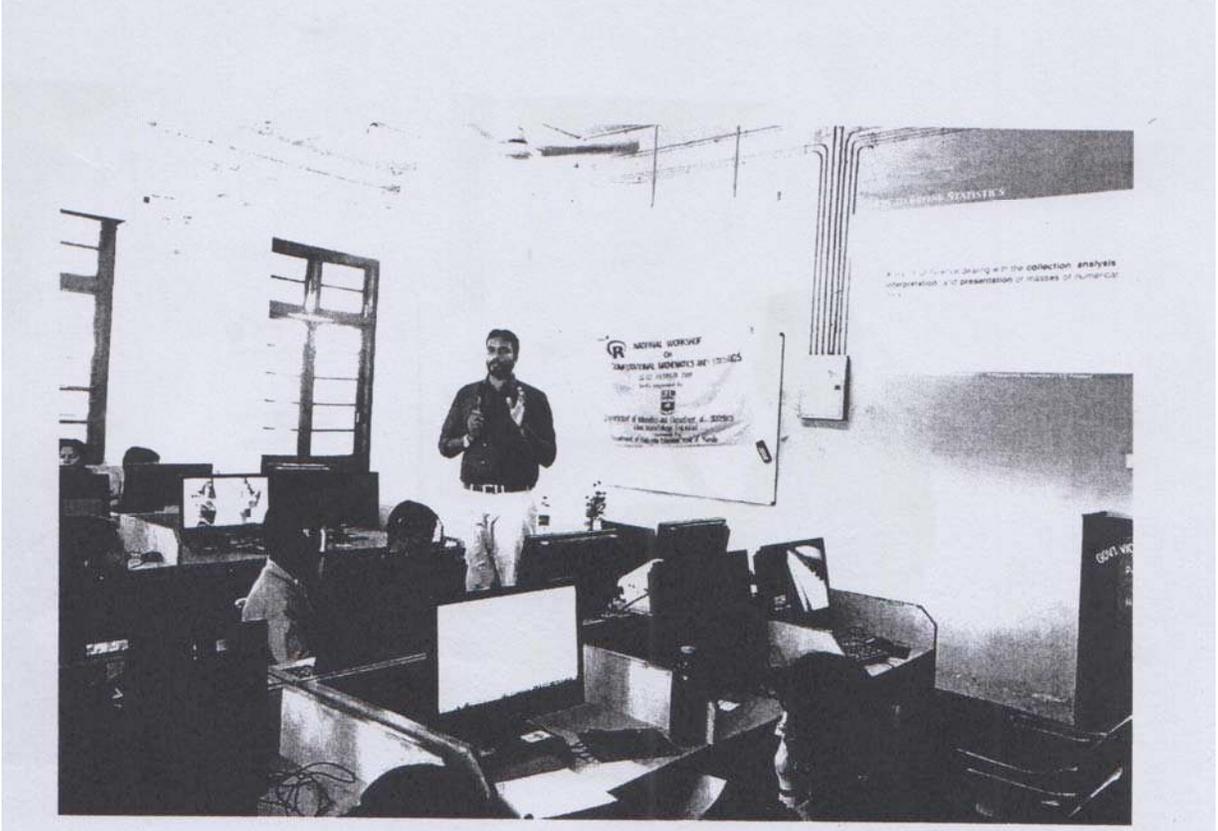
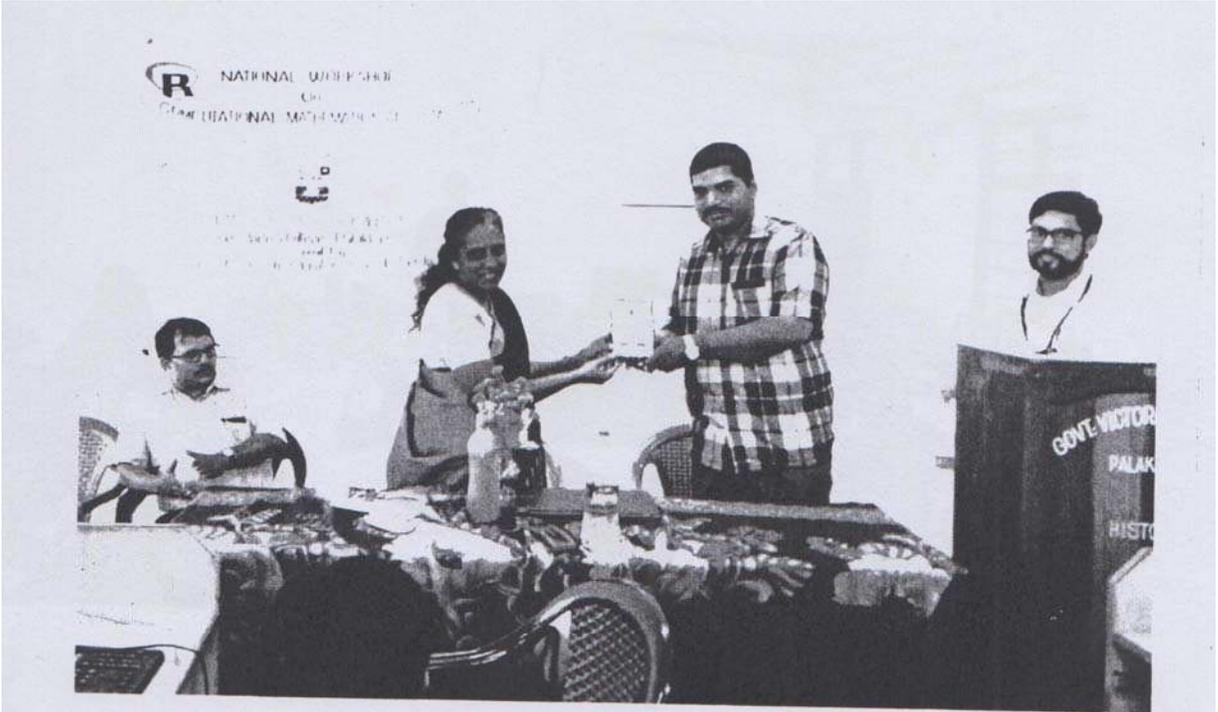
Dr. A. Sadiya Zheer
#organizer

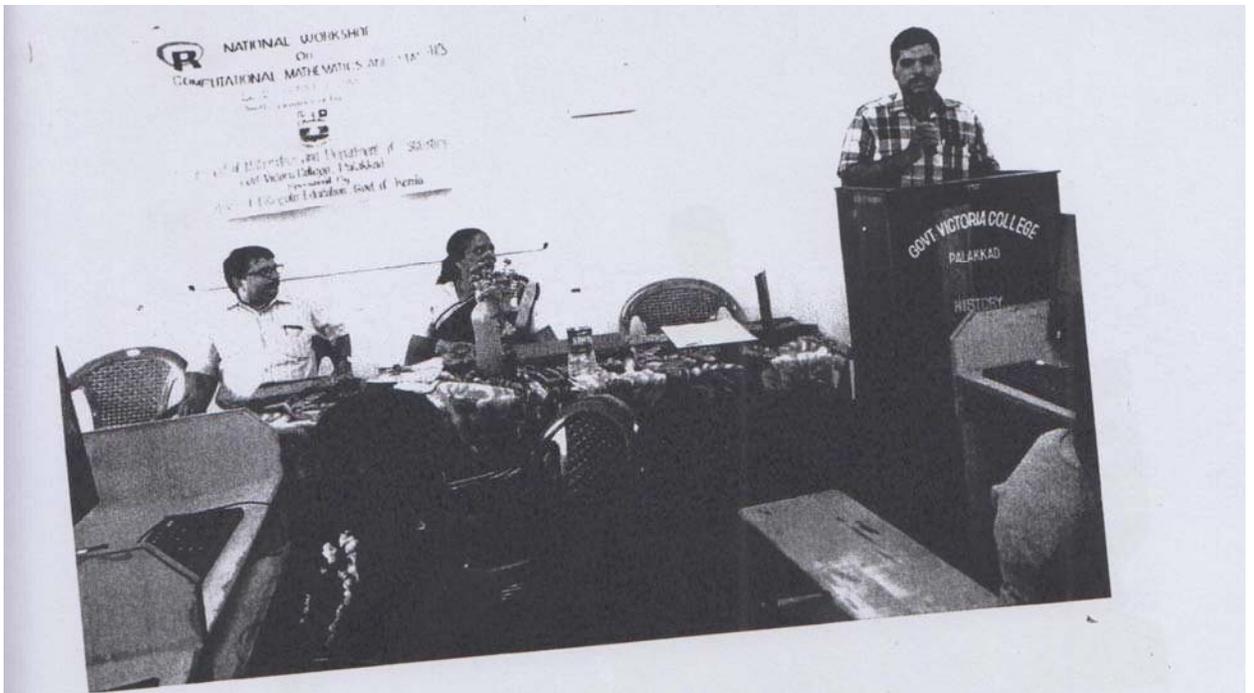
Mohammed Anwar P

Abbotiackal P

(Co-organizers)

NB: Participants are requested to bring their own laptops if possible





ദേശീയ സെമിനാർ റിപ്പോർട്ട്

‘ അധികാരം ചരിത്രത്തിലും സംസ്കാരത്തിലും’ എന്ന പ്രമേയത്തെ മുൻ നിർത്തി കോളേജിയറ്റ് എഡ്യൂക്കേഷന്റെ ധനസഹായത്തോടെ ഗവ:വിക്ടോറിയ കോളേജ് മലയാളവിഭാഗം 2019 നവംബർ 12,13 തിയതികളിൽ ദേശീയ സെമിനാർ സംഘടിപ്പിച്ചു .നവംബർ 12 രാവിലെ 10 മണിക്ക് പ്രൊ:ഒ.കെ രമേശൻ(ബഹു:പ്രിൻസിപൽ ഇൻ ചാർജ്)ഉദ്ഘാടനം നിർ വഹിച്ചു.വകുപ്പധ്യക്ഷ കെ.അജിത അധ്യക്ഷ്യം വഹിച്ചു.ഡോ;കെ.പി രവിചന്ദ്രൻ സ്വാഗതം പറഞ്ഞു. എം.എസ് സ്മിതാനാണി നന്ദി പ്രകാശിപ്പിച്ചു.സി.വി ശ്രീരഞ്ജിത് കുമാർ(IQAC Co-ordinator)ആശംസ നേർന്നു.

കേരളസംസ്കാരചരിത്രവും പ്രതിരോധവും എന്ന വിഷയത്തിൽ ഡോ: അജയ് ശേഖർ പ്രബന്ധാവതരണം നടത്തി.ഡോ:കെ.എസ് മാധവൻ,ഡോ;ബി എസ് ഷെറിൻ,എം.ആർ അനിൽ കുമാർ,ശീതൾശ്യാം,മൃദുലാദേവി എസ്,ഗീതാനന്ദൻ,ഒ.പി രവീന്ദ്രൻ തുടങ്ങിയ വിഷയവിദഗ്ദ്ധർ പ്രബന്ധാവതരണം നടത്തി.ഗവേഷകരുടേയും വിദ്യാർത്ഥികളുടേയും സമാന്തരസെമിനാർ സെഷനും നടന്നു.13ന് വൈകീട്ട് 4 മണിക്ക് സർട്ടിഫിക്കറ്റ് വിതരണത്തോടെ സെമിനാർ സമാപിച്ചു.





SEMINAR REPORT

Dept.of Hindi ,Govt.Victoria College conducted Two Day National Seminar in Hindi on 23rd and 24th October 2019.The Title of the seminar is AJNEYA EK PUNARPAT .

The Seminar was sponsored by The Directorate of Collegiate Education.Govt.Of Kerala.Sri.Rameshan O.K ,Principal,Govt.Victoria College inaugurated the Seminar and chief guest was famous Hindi writer Smt.Manishakulshreshtha. Dr.A.Aravindakshan former Pro V.C of Mahathmagandhi International Hindi University delivered keynote.

The papers presented by the eminent faculties of various institutions and Resource persons were very much informative and useful as far as the topics are concerned.The discussions in various topics gave chances to express the various views of the participants. Total 26 papers were presented in the seminar.These papers revealed various aspects of Ajneyas writings.Teachers from various colleges ,Research Scholars and students from our college were also actively participated in the seminar.Dr.Thankamony Amma and Mr.Ravi Nair distributed the certificate of the participants.In the valedictory function participants expressed their appreciation.The seminar comes to an end by 5.30p.m.





TWO DAY INTERNATIONAL SEMINAR REPORT



The Research Dept of English, Govt Victoria College, organized a Two Day International Seminar on the topic “ARTICULATIONS THAT ALTER, EXPLORING THE INDIGENOUS IN INDIAN CULTURAL ARTEFACTS” sponsored by Directorate of Collegiate Education, Thiruvananthapuram, Govt of Kerala; on 19th and 20th of November 2019. This two-day seminar was an exclusive platform that congregated several literary enthusiasts from all over the country. Whose vibrant participation led to an array of academic discourses.

The Inaugural session on 19th nov 2019 started with the welcome speech by the Head of The English Dept, Dr. Manjula P.P, Principal O.K.Rameshan presided over the meet, Dr. Sreeralanjith, co-ordinator of the India Quality Assurance Cell (IQAC) & C.Ajmal, chairman of the students union offered felicitations. Seminar coordinator Dr. Aboobacker proposed the vote of thanks.

The keynote address was delivered by Prof. P. Prem kumari, Srivastava, PhD Scholar & critic, Maharaja Agrasen college, University of Delhi. She talked hoe marginalized and indigenous voices in art and literature should be brought to the mainstream and how can it hold the key for a better future, on the same day the first plenary session was accompanied by Dr. Rajesh Nair, Asst. Prof. of English, school of letters, MG University Kottayam, regarding the topic “SCRIPTING DISSENT: A READING OF SELECT NAXAL LIFE NARRATIVES FROM KERALA.”

The paper presentation session were guided in the afternoon (2.00-3.30) and on the topics “GENDER AND INDIGENITY” Chaired by Ms. Razeena P.R, Asst. Prof., Dept of English. Sri C. Achutha Menon, Govt College, Thrissur & “CULTURAL & FILM” chaired by Ms. Shamla K.M,Asst Prof. Malappuram Govt College. The day ended with cultural workshop led by Nasar Mechuri, State working president Kerala Mapilakala academy, Vallapuzha, Palakkad about Mapilappatu.

The 2nd day of (20th Nov 2019) International seminar was started with the 2nd plenary session by Dr.M.Dasan Prof and Head (Rtd) Dept of English and comparative literature, Central University Kerala dealt with the topic “THORIZING INDIGENIOUS LITERATURE:A CROSS CULTURE COMPARISON”. There was a guest talk by Mohammed Swalih Erattaparambil, Doctoral fellow, Berlin, Germany, in relation to the topic “ARE THE INDIGENIOUS DISCOURSE DANGEROUS?” and 3rd plenary session was delivered by Abdul Rahoof Ottathingal, Research fellow,Institute of History Leiden University Netherland, on the subject “MODERNITY, RECOGNALITY AND THE LOCATION OF VERNACULAR IN KERALA: BEYOND METHODOLOGICAL NATIONALISM”. The second of paper presentation session (3.30-4.30) was chaired by Ms.Shahina Mol A.K Asst.Prof, PG Dept of English KAHM Unity Womens College, Manjeri, on the topic “TRIBAL LITERATURE AND FILM”.

The two-day International seminar concluded with the valedictory session in which the HOD of English Dept Dr. Manjula P.P, seminar co-ordinator Dr. Aboobacker, Dr. Anilkumar, Prof. Maya Nair, Smitha.M, Dr.Sheena N.G shared their gratitude words.

18.11.2017 (Saturday)

9.30-11.00 am : Hands on Training Session IX

Frontier Orbitals,
Reaction Path Analysis

Dr. Krishna Mohan G. P.

11.00-11.15 am : Tea Break

11.15-12.45 pm : Hands on Training Session X

Vibrational Frequency calculation

Roy K. B.

12.45 - 1.30 pm : Lunch Break

1.30 - 3.00 pm : Hands on Training Session XI

Modeling of Hydrogen Bonding, DFT

Dr. Krishnamohan.G.P.

3.00-4.30 pm : Session XII

Computation for Advanced Research

Dr. Deepthi Jose

Valedictory:

Organizing Committee:

- Dr. Santhi V. (HOD)
- Dr. Padmakumar K.
- Dr. G. Ambadas
- Dr. John P. R.
- Dr. A. R. Ramesh (Coordinator)
- Mr. Kundukulangara Varghese Vinod (Joint Coordinator)
- Ms. Suji S.
- Dr. Reshmi C. P.
- Mrs. Sarika K.

For correspondence/Registration:

Dr. A.R.Ramesh
Asst. Professor,
Dept. of Chemistry,
Govt. Victoria College,
Palakkad-678001.

Watsapp: 9387656260
e-mail: aroramesh@gmail.com
Web: www.aroramesh.weebly.com

* Participants are requested to register for the seminar on or before 15th Nov, 2017.



Three Day National Workshop
on

COMPUTING SKILLS IN CHEMISTRY

16th - 18th Nov, 2017

Organised by
Department of Chemistry



Govt. Victoria College
Palakkad, Kerala-678001

Sponsored by
Directorate of Collegiate Education
Govt. of Kerala

Dear Sir/ Madam,

The Department of Chemistry, Govt. Victoria College, Palakkad is organizing a Three Day Workshop on "Computing skills in Chemistry" during 16th to 18th Nov, 2017. The workshop is sponsored by the Directorate of Collegiate Education, Govt. of Kerala under the faculty development programme. This workshop intends to provide an opportunity for faculty and students in familiarizing advanced software tools used in teaching, learning and research. We cordially invite your participation and support for making the workshop a grant success.

Dr. Santhi V.
(HOD)

Prof. V. Premkumar
Principal

Dr. A. R. Ramesh
(Coordinator)

Kundukulangara Varghese Vinod
(Joint-Coordinator)

Teachers are eligible for duty leave for participating in the workshop under rule 12 (1) (iii) of Part I KSR {GO (MS) No. 200/2009/H.Edn. Dated 12.11.2009}

Since most of the sessions are hands on training, limited slots are available. So please register your participation.

16.11.2017 (Thursday)

9.00- 9.15 am : Registration

9.15-9.45 am : Inaugural Session

9.45-11.15 am : Hands on Training Session I

Programming with Microsoft excel

Abdurahiman Valiya Peediyakkal
(Founder of the website www.alrahiman.com
& HSST, GGHS Tirur)

11.15-11.30 am : Tea Break

11.30-1.00 pm : Hands on Training Session II

Programming with Microsoft excel (Continue..)

Abdurahiman Valiya Peediyakkal

1.00 - 1.30 pm : Lunch Break

1.30 - 3.00 pm : Session III

Introduction to Database Management

Abdurahiman Valiya Peediyakkal

3.00-4.30 pm : Hands on Training Session IV

Database Management with Microsoft Access

Abdurahiman Valiya Peediyakkal

17.11.2017 (Friday)

9.30 - 11.00 am : Session V

Introduction to Computational Methods in Chemistry

Dr. Krishna Mohan G. P.
(Asst. Professor, Mar Baselious College,
Trivandrum & Senior Scientific Consultant,
Cycloides Technologies Pvt. Ltd,
Technopark, Trivandrum)

11.00-11.15 am : Tea Break

11.15-12.45 pm : Session VI

Basics of GAMESS Software

Dr. Krishna Mohan G. P.
12.45-1.30 pm : Lunch Break

1.30-3.00 : Hands on Training Session VII

GAMESS Input File Generation

Roy K. B.
(Asst Professor, SNGS College Pattambi).

3.00-4.30 pm : Hands on Training Session VIII

Geometry Optimization Calculation of molecules

Dr. Deepthi Jose
(Asst. Professor,
Providence Women's College Calicut)

“MOBILE APPLICATION DEVELOPMENT”

The Department of Computer science has conducted 3 day National Workshop on “Mobile Application Development” sponsored by Directorate of Collegiate Education. It was conducted at Computer Lab. The workshop was conducted with an intention to nurture programming skills in Android among faculties. Android being the most demanded language in the present era, we developed a platform that provides practical knowledge to the faculties. More than 30 faculties participated in the workshop. The 3 sessions conducted on 3 days covered the following areas.

DAY 1

Getting started with Android.

Introduction to java & android, application fundamentals, app components, understanding activities etc...

DAY 2

Advanced Concepts

Alertbox, Notifications, Bluetooth, Text to Speech, wifi etc....

DAY 3

Database in Android

SQ Lite introduction, Storing data in SQ Lite etc.,



National Seminar on
Molecules to Supramolecules: A Synthetic Perspective
31-10-2019 to 01-11-2019

Seminar Report

Department of Chemistry, Govt. Victoria College, Palakkad, organised a two day national seminar on “**Molecules to Supramolecules: A Synthetic Perspective**” on **31st Oct, 2019 to 1st Nov, 2019** at Chemistry Seminar hall, with the financial support from the Directorate of Collegiate Education, Govt. of Kerala. The aim of present seminar is to increase the knowledge and update the recent developments in synthesis and properties of molecules and supramolecules among college teachers, research scholars and post graduate students.

Seminar was inaugurated by Dr. Mahesh Hariharan Associate professor, IISER Thiruvananthapuram. Head of the department of Chemistry, Dr. Santhi V, welcomed the resource persons and participants. Principal in charge Prof. O. K. Ramesan presided the inaugural function. Facilitations were given by physics department HoD, Botany HoD and IQAC coordinator. Inaugural session came to end by the vote of thanks by the seminar coordinator Dr. Shanthil. M.

About 40 teaching faculties and 40 students from various colleges attended the seminar. There were five resource persons; Dr Mahesh Hariharan, IISER Thiruvanthapuram. Dr. Reji Varghese IISER Thiruvanthapuram, Dr. L. Ravishankar Senior scientist, CSIR-NIIST, Thiruvananthapuram, Dr. Ranjith Kumar Assistant Professor Dept of Chemistry, Madurai Kamaraj Univeristy, Madurai and Dr. Manoj Mathew Assistant Professor, Dept of Chemistry, St Josephs College Devagiri, Calicut.

Technical sessions were stated with the inaugural lecture by Dr. Mahesh Hariharan on the topic “Selecting research as a Career”. Followed by this lecture, Dr. Reji Varghese started his lecture on the Non-covalent interactions for the design of nanodevices by 10: 30 am and he took the sessions continuously (both the sessions) up to 2 pm. Immediately after lunch, at 2.00 pm our next session on Synthetic oxidative transformations under mild and metal free conditions by Dr. L. Ravishankar and the lecture got over by 5.00 pm. All the lectures were very interesting and informative for the participants.

The first session of 1st Nov, 2019 was taken by Dr. Ranjith Kumar on Multicomponent Domino reactions at 9.30 am and the second part of this lecture was continued after tea at 11.15 am and got over by 1:00 pm.

Immediately after lunch, at 2.00 pm, Dr. Manoj Mathews started his session on Design and synthesis of molecular switches, motors and machines. At 3.30 pm, we gave short break for tea. The lecture was continued and got over by 4.50 pm. We acknowledged the speakers by presenting memento in behalf of Dept of Chemistry Govt. Victoria College Palakkad.

The seminar came to an end with a brief Valedictory function.

Dr. Shanthil M.

Asst. Professor of Chemistry, Coordinator

Photograph of seminar



**REPORT OF THE THREE-DAY NATIONAL SEMINAR ON
GALOIS THEORY AND ITS APPLICATIONS
27-29 NOVEMBER 2019.**

The department of collegiate education sanctioned a Three-day national seminar to the Department of Mathematics, Government Victoria College Palakkad under the faculty development (plan) in response to the request made by the department during 2018-2019 academic year. The letters inviting participation were sent to various institutions across Kerala and neighboring states. Students and teachers from various colleges of the state were participated in the seminar. The Inaugural session was presided over by the respected Vice- Principal Prof. O K Ramesan. Dr. K P Naveena Chandran, department of Mathematics, Cochin University of Science and Technology inaugurated the seminar and delivered a talk on “*Introduction to Galois Theory*”. The talks were very informative and interactive. As per the feedback collected from the participants the seminar was rated as excellent in its quality of talks topics covered and the local hospitality provided.

Schedule of the seminar is the following.

**THREE-DAY NATIONAL SEMINAR ON
GALOIS THEORY AND ITS APPLICATIONS**

Registration: November-02, 8.30-9.00 AM

Inauguration: 9.00 AM

| TIME DATE | 9.30AM - 11.00 AM | 11.15 AM - 12.45 PM | 1.45 PM - 3.15 PM | 3.30 PM - 5.00 PM |
|----------------------|---|---|---|---|
| 27-11-2019 | Dr. K P Naveena Chandran, Adjunct Professor, CUSAT “ Introduction to Galois Theory” | Dr. K P Naveena Chandran, Adjunct Professor, CUSAT “ Introduction to Galois Theory” | Dr. Vishnu Namboothiri, Asst.Professor, Govt.College, Ambalapuzha, Alapuzha “Extension fields and their automorphisms” | Dr. Vishnu Namboothiri, Asst.Professor, Govt.College, Ambalapuzha, Alapuzha “Extension fields and their automorphisms” |
| 28-11-2019 | Dr.Venketasubramanian C G, Asst.Professor, IISER ,Tirupathi “About Normal Extensions “ | Dr.Venketasubramanian C G, Asst.Professor, IISER ,Tirupathi “About Normal Extensions “ | Dr. Vishnu Namboothiri, Asst.Professor, Govt.College, Ambalapuzha, Alapuzha “Extension fields and their automorphisms” | Dr.A V Jayanthan, Associate Professor, IIT Madras, Chennai “Fundamental Theorem of Galois Theory “ |
| 29-11-2019 | Dr.Venketasubramanian C G, Asst.Professor, IISER ,Tirupathi “About Normal Extensions “ | Dr.Venketasubramanian C G, Asst.Professor, IISER ,Tirupathi “About Normal Extensions “ | Dr.A V Jayanthan, Associate Professor, IIT Madras, Chennai “Fundamental Theorem of Galois Theory | Dr.A V Jayanthan, Associate Professor, IIT Madras, Chennai “Fundamental Theorem of Galois Theory |

Co-ordinator









THE TWO DAY NATIONAL SEMINAR sponsored by the directorate of collegiate education was conducted by the Department of History on 19-20-November, 2019. The seminar was titled PRE HISTORIC STUDIES TECHNIQUES AND TRENDS and inaugurated by Dr. Arjun Rao of Bangalore University. Besides him, the session were headed by eminent archaeologists, Dr. P Selvakumar of Tamil University, Tanjavur, NK Ramesh of Kunjali Marakkar Museum, dr. Mnjula poyil of Kannur University and C K umaramn of Archaeological Survey of India presented papers.

REPORT ON SHASTHRAPADAM SCIENCE WORKSHOP 2019

GOVT. VICTORIA COLLEGE, PALAKKAD

In collaboration with Samagra Shiksha Kerala, Govt. Victoria College organized a Three Day Science Workshop for plus one students during 12th, 13th, 14th January 2019 at Govt. Victoria College, Palakkad. In this mega event, selected students from many schools from Palakkad Taluk took part. The camp kicked off on the 12th January and concluded on the 14th January 2019.

The Grand Workshop commenced by the arrival of students from different schools. The students and their parents were all gathered by 9.00 am. The Workshop was envisioned to have the insight of the basic concepts of different disciplines of science to be clear and to expose them to various new and advanced techniques in the field of science. A total of 12 sessions were given by resource person including lectures, field visit, practicals etc. About 63 young talents from various institutions participated in this three day Science Workshop.

Day 1 - 12.01.2019

Inaugural Session

First day was started with the colourful welcome by the Workshop Coordinator Dr. K. Abdul Rasheed, Asst. Professor, Govt. Victoria College, Palakkad. He highlighted the themes of the science workshop and also briefed about the various activities to be conducted on the science workshop. It was followed by a Presidential address given by the Principal of Govt. Victoria College, Palakkad. The workshop was formally inaugurated by our honourable M. P Shri. M. B. Rajesh. The Chief guest praised the entire audience a lot. He guided with his inspirational words and inspired to do better. He differentiated science from pseudoscience and also encouraged the young talents to pursue their higher education in the field of science.

We started off by welcoming all the participants and introducing ourselves to create rapport and establish credibility to facilitate the sessions. Introduction included a short background on our motivation to do facilitate and in particular for these sessions. Students were also given an opportunity to introduce themselves. Introduction were meant to build a sense of belonging and break down feelings of unfamiliarity and help share participants skills and experience.

Logical fallacies

Inaugural session was followed by the lecture of **Dr. T. V. Sajeev** on Logical Fallacies. It helped the participants to have a deep understanding about the different types of fallacies. He also explained about the various ways to reduce and overcome the situation in life which is affected by fallacies with live examples. His session was very informative and interactive, as reflected from the feedback received from the participants.

Energise with Physics and Equate with Maths

To put a break in their lecture session students were allowed to visit Physics and Maths Lab. Teachers and Research scholars welcomed them and explained each and every item inside the lab and also demonstrated some experiments. Students also got chances to practice some of the experiments. This gives them a great platform to learn and explore new ideas. They also wondered when experienced with the Maths lab and got pleasure from it.

History of Science and Scientific Attitude

After the lunch the session was carried out by **Y Kalyana Krishnan**, District Coordinator, Palakkad, Haritha Mission, Kerala on History of Science and Scientific Attitudes. He made the first move with an endeavor to promote scientific attitude among budding young students. Students showed much interest to know more about the history and also took notes with great enthusiasm. The session summed with a vision of improving scientific skills among the students.

Around the clock tower- Campus Visit

After enlightening their spirits they were allowed to an entertainment spell. They enjoyed the extreme natural beauty, serenity and splendor of college along with the volunteers. They spent more time near the famous 'Muthassi Maram' and amuse them self around it. Students experienced a college life by wandering through the college and really inspired them to come back to the college. It was truly a mesmerizing time they had.

Sky is not the limit

After refreshment **C. Narayankutty**, Director, Anuchara environmental Forum, Nemmara started a session on Astronomy where students burst out with their doubts. He enlighten the world of darkness and stars. He also uttered his views on celestial bodies which made the audience more curiosity towards the subject. Following this the students were all taken outside to the extended college ground. They listened and watched eagerly as the expert showed and explained the various types of stars and constellation. That felt timely celebration in the sky.

Following this a very interesting power point presentation was delivered by Anwar, Ornithology trainee wherein he educated his young audience about a plethora of birds found in India.

DAY 2 - 13.01.2019

Bird Watching

On 13th January, we took the students for a bird watching at Kava, Malampuzha. We had planned to meet them at 6.00 am and were pleasantly surprised to find all the students ready and rearing to go despite the early hour. Anwar led the enthralled kids and volunteers on a walk through the bank of Malampuzha River behind the Dam, stopping frequently to point out and identify various birds, while

simultaneously giving information about them, their behavior, feeding habits, scientific names etc. By the end of the walk, the students were able to identify some birds and they enjoyed a lot.

React to Chemistry, Nourish with Zoology and Grow with Botany

After the breakfast we took the students to the Museum. They were soon immersed in the variety of science models and experiments on display. They cross the threshold by exploring the zoological and botanical world. Their gratification was beyond the limit and they shared their contentment towards the volunteers. What better way to kindle an interest in science and learning.

Career in Science

Next session was started by **P. A. Sudheer**, Career counselor on the topic Career in Science. Career path plan was defined as the process of identifying career goals, aspirations and ways to achieve them. He focused on the progress of scientific world and also discussed each and every aspects of disciplines in science. Students were able to generate a career plan and align their education and interests to their careers.

Camp fire

The students and volunteers then proceeded for one of the most awaited feature of the camping that was Camp fire. They were eagerly waiting for the colorful moment. During Camp fire, the students interact with each other and did several cultural activities. The hot Black tea during the cold night added much sweet to the entire day. Students really enjoyed that vibrant night. They were thrilled and happy to be the part of Camp fire. Most of them were witnessing the Beauty of Camp fire for the first time. At the same time they were sad to leave from the college next evening.

Day 3 - 14.01.2019

Visit to IIT Palakkad

On the concluding day students were allowed to visit IIT, Palakkad inside the Ahalya Campus. During this session, students were divided into three batches. From the visit students gained practical knowledge about the handling of the mechanical instruments in Physics Lab. Many of the points explained in theoretically in first session again explained practically. Faculties of IIT campus especially from the department of physics and chemistry helped the students to understand more about the lab equipments such as motors, electrical instruments etc. The main attraction of IIT was the Innovation Lab in the Physics Department where student's innovative ideas can be developed. Students interacted with the resource persons very effectively particularly about the working of different instruments. After this all the students were offered small refreshment. The visit was highly useful for the students in terms of practical knowledge about the different mechanical and electrical instruments. It will also be helpful for them to find out more opportunities in such universities. All the students expressed their gratitude to the officials for the opportunity given.

Recent Development in Science

After the lunch the session was followed by **Dr. Suresh Kumar**, Asst Professor, Botany, Govt. College, Chittur on the topic Recent Development in Science. He addressed the participants and motivated them to undertake research in the field of science. It was a wonderful session in which everyone got a thorough knowledge about the progress of Science and technology in the emerging world. The participants took the lecture notes enthusiastically and the session was very helpful to know more about the development in science.

Science- What, Why- Panel discussion by faculty of college

The last session was very interesting session in which faculty members of different department took part in the panel discussion along with the young talents. They expressed their views towards the upcoming scientific vision and also about the fiction in science. Students' interaction was the centre of attraction in the panel discussion. They thrashed the faculty members by their sagacity towards the scientific world. Faculties were surprised by the mind blowing performance of students and they encouraged the students to always keep this blaze inside them. It was truly a mesmerizing session were everyone including faculties and students participate with full energy.

Valedictory session

The closing ceremony of the event was carried out zealously by the IQAC co-ordinator Dr. C. V. Sreeranjit Kumar and he welcomed the gathering. It was followed by a Presidential address given by Dr. Safiya Beevi, Principal of Govt. Victoria College, Palakkad. It was followed by the announcement of 10 best students among 63 who were selected to the State Level Camp by the District Higher secondary Education Co-ordinator Mr. Mahesh. He appreciated all the students by his inspirational words. He explained that the key objective of the camp was to bring out the hidden talents of students and focus on creating more awareness on science and technology. It was followed by a formal vote of thanks and the event concluded.

Conclusion

In the feedback session, the young and energetic participants expressed their views about the science workshop. They appreciated the coordinator for the well organized workshop, the hospitality, food etc. Students really enjoyed a lot and dispersed with a sincere hope that such mega events should be organized time and again giving the students a chance to acquire and enhancing their talents. Be it during the planning stage, or when the camp was in progress, the wholehearted efforts of all the volunteers involved is what made the conducting of the science camp a success. All in all the workshop was very productive.

DR. K.ABDUL RASHEED, PROGRAMME CO ORDINATOR

SASTRAPADAM, GOVT VICTOIA COLLEGE,PALAKKAD.

Brief Report on the Three Day National Workshop on Recent Trends in Cryptogamic Botany

The three day national workshop on Recent trends in Cryptogamic Botany, organized by the Department of Botany, Government Victoria College, Palakkad and sponsored by the Department of Collegiate Education started on 15th October 2019, at the seminar hall inside the college campus. The inaugural session was welcomed by Dr. Maya C. Nair, HOD Botany and was presided by Sri. O. K. Ramesan, Principal. Inauguration and Key note address was delivered by Dr. P. Manimohan, Professor of Botany, University of Calicut. His reminiscence, being an alumnus of Govt. Victoria College took the audience to the Victorian era during the 1970's. Dr. A. E. D. Daniels, the second speaker of the day and Dr. C. V. Sreeranjithkumar, IQAC Coordinator delivered the felicitation and vote of thanks was proposed by Dr. Leeja L., coordinator. A total of 38 teaching staff and 39 students and research scholars were participants.

The first lecture session on "An Overview of Fungal diversity and Systematics", was handled by Dr. P. Manimohan and started by around 11.00am. The session was extremely benefitting and gave the audience awareness on where the systems of fungal studies presently stand. The session proved to be interactive where, the audience had so many questions which were cleared meticulously and authentically by the speaker. The second session of the day started at 1:30pm and was handled by Dr. A. E. Dulip Daniels on "Taxonomy of Bryophytes", followed by the workshop session.

The second day, 16/11/2019 started with the lecture session on "A stroll through the realm of Agarics" handled by Mr. Manoj Kumar, Asst. Prof., Dept. of Botany, Government College, Chittur. The session was followed by a workshop session on field level and microscopic identification of fungi. The afternoon session was handled by Dr. (Fr.) Jose John on the topic "Algal diversity and systematics - A practical approach" and was followed by the workshop session on collection and identification of Freshwater algae and discussions. The team was led to the college pond and was demonstrated with the various collection techniques.

The third day, 17/10/2019 started with the lecture session on "A digest of Lichens" handled by Dr. Biju Haridas, Technical Assistant, Grade III, JNTBGRI, Palode. The session dealt with the types and nature of lichens and their peculiarities in the field. The lecture session was followed by a workshop session on the field level identification of Lichens. Various methods of collection techniques were also discussed. Live specimens were supplied for detailed analysis to the participants. The afternoon session was handled by Dr. Raju Antony, Technical Assistant, Grade III, JNTBGRI, Palode on the topic "Taxonomy of Ferns and Lycophytes".

The three day workshop concluded with a valedictory function. The participants shared their experiences and feedback of the 3 days. The workshop was informative and refreshing for all the participants.

Dr.Leeja.L

Mr. Alen Alex Philip

**PROGRAMME SCHEDULE
DAY 2
(16-10-2019)**

9.30 am-11.00am- Session- 3
‘A stroll Through the Realm of Agarics’
Mr. Manoj Kumar
(Assistant professor of Botany,
Government College Chittur)

11.00 am- 11.15am- Tea break
11.15am-12.45 pm -
Technical session on
identification of mushrooms
12.45 pm-1.30p m -Lunch Break

1.30 pm - 3.0 Pm- Session- 4
‘Algal Diversity and systematics:
A Practical approach’
Dr. (Fr). Jose John
(Associate Professor of Botany,
S.H. College, Thevara)

3.00 pm -3.15 pm- Tea Break

3.15 pm - 4.45 pm- Technical
session on Collection and
Identification of Freshwater
Algae (hands on training) and
discussion.



**PROGRAMME SCHEDULE
DAY 3
(17-10-2019)**

9.30 am-11.00 am- Session- 5
‘A Digest of Lichens’
Dr. Biju Haridas
(Technical Officer Gr.III,
JNTBGRI, Trivandrum)

11.00am- 11.15am- Tea break

11.15 am-12.45 pm -Technical
session- Field level
identification of Lichens.

12.45 pm -1.30 pm - Lunch Break

1.30pm - 3.00pm- Session- 6
‘Taxonomy of ferns and Lycophytes’
Dr. Raju Antony
(Technical Officer Gr.III,
JNTBGRI, Trivandrum)

3.00pm-3.15pm- Tea Break

3.15pm-4.00pm-Valedictory function

Please ensure your participation by
registering through the online form
or scan the QR code
<https://tinyurl.com/gvccworkshop>



Entry is limited to 40 teaching
faculty. Students and research
scholars will get confirmation mail
only on the basis of availability of
seats. For any further queries,
contact the co-ordinators
Dr. Leeja L. -9445679290
Mr. Allen Alex Philip -854727766



2019



DEPARTMENT OF BOTANY
GOVT. VICTORIA COLLEGE, PALAKKAD
(Co-ordinated by MGR with S. Crude)





Govt Victoria College ,Palakkad

Dept of Statistics

Report of the two day International Seminar on

“Multivariate Analysis and Special Functions-Theory and Applications”

6-7 November 2019

The post graduate Department of Statistics, Govt Victoria College, Palakkad organized a two day International seminar on “Multivariate Analysis and Special Functions-Theory and Applications” on 6-7 November 2019, sponsored by Directorate of collegiate Education , Govt of Kerala. The venue was the smart room of Dept of Statistics. The main objective of the seminar was to introduce to the participants about the general Multivariate Models in the context of Special Functions. Dr A M Mathai, Emeritus Professor, Department of Mathematics and Statistics, McGill University , Montreal, Canada, Former president of Indian Mathematical Society, Former Chairman of Kerala State Statistical Commission, was the resource person of the program. This Seminar offered an opportunity to understand the use of special function in recent research of Multivariate Analysis. Several participants from different areas of Kerala have attended this International Seminar.

The International Seminar was officially inaugurated on 6 Nov 2019, 9.30 A M. at smart room of Statistics Dept. Mr Muhammed Anvar P , Head of the Department of Statistics delivered the Welcome Speech and Presidential address was delivered by Smt Maya Nair, Principal In Charge, Govt Victoria College, Palakkad. Dr A M Mathai, Emeritus Professor , McGill University, Canada inaugurated the program. Felicitations was delivered by Dr C Srinivasan, HOD, Dept of Mathematics and Dr C V Sreeranjith Kumar, IQAC Coordinator. Dr Princy T, Assistant Professor, Dept of Statistics delivered the Vote of Thanks.

Dr A M Mathai, discussed with the participants about the use of special functions in different areas of Multivariate Analysis. Participants actively interacted with the resource person for clearing their doubts. The whole sessions was very informative and gave motivation to the participants for doing research in these areas.

Valedictory session was held at 4.30 P M. Mr Muhammed Anvar P, H O D, Department of Statistics presented the momento to the resource person and distributed certificates to the participants.

Registration Form

Name:

Designation:

Institution / Organization:

Mailing address:

E-mail:

Phone / Mobile:

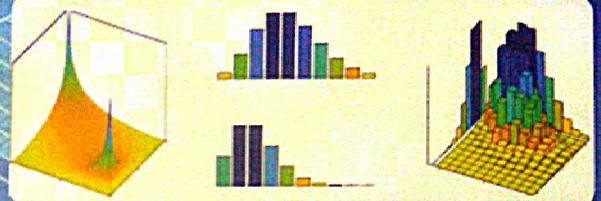
Date: _____ Signature _____

Your participation may please be intimated to Dr. Princy T.,
Mob: 9446682020



Organizing Committee: Muhammed Anvar P (HOD)
Dr. Princy T (Co-ordinator)
Divya A
Sreeja P
Afeefa U
Aswathy T P

Two Day International Seminar on "Multivariate Analysis and Special Functions- Theory and Applications"



6-7 November 2019

Venue: Department of Statistics
Govt. Victoria College, Palakkad



Organized by:
Post Graduate Department of Statistics
Govt. Victoria College, Palakkad
Kerala-678001

Sponsored by:
Directorate of Collegiate Education,
Govt. of Kerala



About the college

Government Victoria College is located in the heart of Palakkad Town. This institution was started in the year 1866 as Rate School and became a Govt. High School in 1877. In 1888 the high school was raised to the rank of Second Grade College and was affiliated to University of Madras. Currently, the college affiliated to University of Calicut with 16 UG courses and 11 PG courses in Arts and Science subjects and is recognized as Centre of Excellence by Govt. of Kerala. The college is re-accredited with "A" Grade by AAC. It is spread over a campus of 25 acres with a number of heritage buildings. The clock tower, the popular college maidan with its Victorian giant tree and the towering Sri. M. Krishnan Nair Gate are just a few major attractions of this college.

About the Department

The department of Statistics was established in 1957. It offers PG course in Statistics and subsidiaries in various disciplines. Several of its alumni were placed in government as well as in private sectors. The department is providing consultancy services in Statistical data analysis, Statistical Software training and clarification of Statistical concepts. The department was successful in the value addition of students in transforming them to the knowledge assets of the society.

Sir/Madam,

We are organizing a two-day International Seminar on "Multivariate Analysis and Special Functions-Theory and Applications" on 6th and 7th November, 2019 at the Department of Statistics, Govt. Victoria College, Palakkad under the sponsorship of Directorate of Collegiate Education, Government of Kerala. **Dr. A.M. Mathai, Emeritus Professor, Department of Mathematics and Statistics, McGill University, Montreal, Canada, Former President of Indian Mathematical Society, Former Chairman of Kerala State Statistical Commission,** will be the resource person.

Multivariate analysis is a set of techniques used for analysis of data that contain more than one variable. It is used to address the situations where multiple measurements are made on each experimental unit and the relations among these measurements and their structures are studied. The main objective of this seminar is to introduce to the participants about the Normal and general multivariate models in the context of Special Functions.

We invite your esteemed presence and sincere participation

Prof. O.K. Ramesan
Principal (In Charge)

Muhammed Anvar P
HOD

Dr. Princy T
Co-ordinator



