



# UNION CHRISTIAN COLLEGE ALUVA-2



Criterion 3

SSR 5<sup>th</sup> CYCLE 2023

3.2.1 Innovative Ecosystem



## 3.2 Innovation Ecosystem

### 3.2.1 Institution has created an eco-system for innovations, creation and transfer of knowledge supported by dedicated centers for research, entrepreneurship, Incubation etc.

The college has created an ecosystem for innovations, creation and transfer of knowledge. Our campus has introduced students to many eco-friendly ventures.

#### **Dedicated centres for research**

The college has ten Research Centres (Botany, Chemistry, Economics, English, History, Mathematics, Malayalam, Physics, Psychology and Zoology) dedicated to formal research and also to provide support to application and innovation. These centres conduct many events like seminars, Workshops and training programmes to disseminate knowledge on basic and advanced research methodology.

#### **Entrepreneurship and Innovation**

Innovation and Entrepreneurship Development Centre (IEDC) Unit of U. C College has been started on 5th December 2017. This supports students to attend training programmes, seminars, workshops and Ideafest conducted at our college and various colleges across the state and to promote entrepreneurship among students leading to successful entrepreneurship ventures.





- IEDC summit 2018 at Amal Jyothi Engineering College on 3<sup>rd</sup> November 2018. (8 students UG & PG participated)



- BT & SP students (7 nos) attended a two-day workshop at MES college Marampilly on December 13<sup>th</sup> and 14<sup>th</sup> 2018 organised by KSUM.



- The students (12 nos) of BSc BT and SP attended "Evoke 19" held at TKM Engineering College.

It was a 3-day event on 1st, 2nd and 3rd February 2019. They have arranged various events like project presentation, Ideathon, etc. and our students got an opportunity to exhibit their work.



- UG and PG students (12 nos) of Bioscience Department attended a Biotech Bootcamp at the Biotechnology Incubator at KRIBS BIONEST, KSUM on 15<sup>th</sup> and 16<sup>th</sup> July 2019.





- Biotech PG students (4 nos) attended Women Entrepreneur Summit at Kerala Startup Mission integrated startup hub, Kalamassery on 1<sup>st</sup> August 2019.



- UG students from BioScience and Electronics and Computer Maintenance Departments attended the IEDC Summit 2019 at Sahrudaya College of Engineering, Thrissur on 19<sup>th</sup> October 2019.







## Indian Knowledge System (IKS)

Indian Knowledge Systems Have Been Given Increased Emphasis in Almost All Programs with Regard to Revised Syllabus.

Department of Botany



Nakshathravanam plants display in UCC-A centre for birth star plants

Inaugurated on April 12, 2023 by united board members Dr. Angela Wai Chung, Mr. Kevin Henderson and Mr. Lentson Amos for knowledge dissemination to public on Indian knowledge system.

27 North Star plants with QR enabled boards with correct nomenclature stating – distribution, synonyms and updated nomenclature as per APG 5 in powo.com



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## Dept. of History Course in MA-History Fourth Semester

**Course Code: HY800402**

### **KNOWLEDGE SYSTEMS IN PRE-MODERN INDIA**

#### **Objectives**

The course is designed to provide a theoretical outline on Indian knowledge systems and introduce learners to the vast world of indigenous knowledge systems. This will provide wider epistemological insights and acquaint students with the traditional knowledge form of Indian subcontinent in the most demystified manner.

#### **Outcome**

Students will be develop a frame of mind tuned to a holistic understanding of India's pre-modern intellectual legacy. This helps to demystify the past and situate the present and future applications of traditional science and technology more sensibly. Traditional wisdom lost in modern times have been rediscovered using new theoretical tools and theoretical preliminaries are critical to current academics. The intellectual history of regions are vast and varied and learners will be able to appreciate the multiple trajectories in Indian knowledge systems.

#### **Module I**

##### **Archaeology and Knowledge Systems:**

Overview of Harappan Technology and Science- Indus Ceramics and Lapidary Technology- Copper/Bronze Metallurgy - Iron Technology in ancient India – Ceramic, Metal and Glass Technologies in early historic period – Indus and Brahmi paleography.

#### **Module II.**

##### **Texts and Knowledge systems:**

Vedangas and specialized knowledge systems: Siksha, Kalpa, Nirukta, Chhandas, Jyotisha, Vyakarana - Sulba Sukta- Vedanta – Nyaya- Arthasastra- Pali Canons and Buddhist Logic.

#### **Module III.**

##### **Classical and Regional Knowledge Systems:**

Astronomy and Mathematics - Bhaskara- Aryabhata-Varahamihira - Raja Jai Singh - Mathematical traditions of Kerala - Ayurveda: Classifications, Samhitas and Acaryas - Lexicography: Amara and Hemachandra – Natyasastra - Samarankana Sutradhara- Pre-industrial Navigation and Shipping on Western Coast of India.

#### **Module IV**

##### **Foreign Impact on the Indian knowledge systems:**

Persian Impact- Arab Contacts and Influence on Knowledge Systems – Fusion of Indian and West Asian Science and Technology under Delhi Sultanate and Mughals –Cognitive Encounters during the Colonial Phase- Spread of Indian Knowledge Systems to the West.



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## First Year UG Students Near Pazhassiraja Museum





## Students Practicing Old Malayalam Script





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Documentary Prepared by Students of CSRS, Union Christian College, 2020.



**മണ്ണു : A journey through the lives of K. V. Sreeja & Biju Bhaskar**  
ആലുവ യൂണിയൻ ക്രിസ്ത്യൻ കോളേജി...  
[www.youtube.com](http://www.youtube.com)

Documentary by CSRS under the UBCHEA project  
[https://youtu.be/ljM\\_16mgm9w](https://youtu.be/ljM_16mgm9w)  
9:58 am



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ഒറ്റവാക്കിന്റെ മുഴക്കങ്ങൾ  
Ottavakkinte Muzhakkangal

Editors | Dr. Mini Alice, Nino Baby  
Malayalam | Interviews

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## ഒറ്റവാക്കിന്റെ മുഴക്കങ്ങൾ ബദൽജീവിത മാതൃകകൾ

ഡോ. മിനി ആലീസ്  
നിനോ ബേബി

### സാപിയൻസ് ലിറ്ററേച്ചർ

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## Centre for the Study of Religion and Society (CSRS)

- **Documentary Shooting: Smt. Sreeja.**

**13<sup>th</sup> January 2019, Aarangottukara, Thrissur**

Another major activity under the project was the making of a documentary based on the interviews done. The first part of the shooting covering the activities of Smt. Sreeja, an income tax officer cum theater activist and organic farmer was done at her native place. The team could capture the gaiety and spirit of harvest coupled with the richness of art and folklore experienced by locals including children. Team also visited her initiative named Krishi Padasala exclusively for native children to understand the sustainable methods of organic farming, preservation of paddy seeds and inculcating in them creativity and promoting their artistic endeavors. A performance of the play “Idanilangal” led by Smt. Sreeja in Thrissur was documented by the team so as to showcase her engagement with theatre.





- **Documentary Shooting: Sri Biju Bhaskar.**

**20<sup>th</sup> January 2019, Thiruvannamalai, TamilNadu**

The team conducted the second part of the three-day shoot at Thiruvannamalai with Sri Biju Bhaskar, architect and natural builder specializing in the construction of 9 mud houses with a view of rejuvenating the traditional elements of Indian architecture and design.

- **Interview 15: Sri V. K. Sreeraman.**

**28<sup>th</sup> April 2019, Trissur**

The fifteenth interviewee in the series was V.K. Sreeraman, renowned actor, writer and social critic who has been instrumental in mainstreaming many alternative lives through his writings and interventions in the visual media.





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## Report of the Activities during 2018-19

- **Interview 16: Dr. N. Vijayakumar.**

**17<sup>th</sup> June 2019, Aluva**

The sixteenth interviewee was with Dr. N. Vijayakumar, a medical practitioner and social worker who played a critical role in setting up a Blood Bank in Aluva which remains a model for other such centres. His work has been instrumental in saving many lives and has had positive influence on the lives of dialysis patients from underprivileged sections.







## Report of the Activities during 2019-20

- **Sixth T.O Abdulla Endowment lecture.**  
**30<sup>th</sup> August, 2020, Union Christian College**

Sixth T.O Abdulla Endowment lecture was delivered by Sri. Binoy Viswam, Member of Rajya Sabha on 30<sup>th</sup> August 2020.





- **Book – Documentary Release**

**25<sup>th</sup> February 2020, Union Christian College.**

Sri. Binoy Viswam, Member of Rajya Sabha released Compilation of sixteen interviews in the form of an edited book named Ottavakkinte Muzhakkangal: Badaljeevitha Matrukakal and Documentary named Mannu based on the lives of Sri K.V. Sreeja & Sri Biju Bhaskar.





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## • Summary of the Project

The Centre in collaboration with United Board for Christian Higher Education in Asia (UBCHEA) carried out a project titled *Understanding Alternative Lives: Equipping Students for a Peaceful Existence* in 2016-2020 which involved a series of interviews, publication of a book and making of a documentary on personalities who have charted a unique path of their own, oblivious to the concerns of mainstream society. The project, lasting four years, attempts to serve as a platform for the students at large by drawing insights from sixteen unique personalities and their contribution to workspace, in shifting their perception about life's purpose as seekers of Truth and Peace in a new way. The chosen personalities with whom students interacted have carved a niche for themselves in their respective fields upholding integrity, honesty and commitment. This initiative is the first of its kind in codifying alternative lives in Kerala, though individual case studies are aplenty.

### ➤ Personalities interviewed

Dayabai (tribal activist), Fr Bobby Jose Kattikkadu (Spiritual guru), Smt.

A.K. Rajamma, (Gandhian), Sri. Shaju Thomas (Social worker), Sri C.K. Saseendran MLA (Politician), Sri Santhosh George Kulangara (Traveller), Smt K.V. Sreeja (Theatre artist & Organic farmer), Dr. Haripriya Namboothiri (Kathakali artist), Sri Thomas Neernakudi (NRI turned Planter), Sri James Joseph (Entrepreneur Jackfruit 365), Sri Devesh Mahadev (Differently abled Banker), Sri G Sankar (People's Architect who founded Habitat), Prof R.V.G. Menon (Scientist, Educationalist & Public intellectual), Sri Biju Bhaskar (Green Architect), Sri V.K. Sreeraman (Critic, Writer & Artist) & Dr N Vijayakumar (Pediatrician & Hematologist).



## Activities Under the Project:

- Two workshops – 1) For Theme conceptualization (Alternative lives) & Basic interview skills, 2) Basics of Documentary making
- Mock interviews before each interview and presentation on each chosen person
- Sixteen Interviews
- Little magazines after each interview to share their experience through creative skills
- Visits to places such as Anjappam Kozhencherry, Vinobha Nikethan, Arunachalam Hills, Auro Ville Pondicherry, Akasapparavakal Bangalore, Arangottukara
- Compilation of sixteen interviews in the form of an edited book named Ottavakkinte Muzhakkangal: Badaljeevitha Matrukakal
- Making of a documentary named *Mannu* based on the lives of Sri K.V. Sreeja & Sri Biju Bhaskar

### • Goals Accomplished

The students embark on a journey of self-realization through the field experience they acquire by acquainting themselves to these personalities. The interactions have definitely broadened their horizons and opened up numerous possibilities for them in creating communal partnerships and peace building in the society.



## Department of English

### Copy of Syllabus

#### Semester 4 – Elective Course:

#### [EN820403] – Indian Poetics: Theories and Texts

Total Credits: 3

Total Hours: 25

Weightage:

#### Objectives:

The aim of the course is to familiarise the students with the major texts of the Indian tradition in the light of Indian poetic principles.

#### Course Description:

The eight major schools of Indian Aesthetics are to be introduced. The two cardinal schools viz. Rasa and dhvani are to be discussed in detail. The students must be familiar with the strong geopolitics behind Tamil poetics. Texts have to be discussed in the light of the theories. Questions pertaining to the dominant aesthetic sentiment, the suggestive potential of the language of the text, and so on need to be raised. Alternative readings have to be encouraged. Issues like the ideological ramifications of the erotic sentiment as a tool for the containment of women, the heroic sentiment as a mechanism for authenticating kingship and social stratification, the distinction of language into Sanskrit for noble men and Prakrit for menial characters and women, the division of space into domestic and exterior and its significance in the domestication of women, the significant absence of women (with the possible exception of Avvayyar) etc. are to be highlighted. Students may be encouraged to read Romila Thapar's analysis of Shakuntalam to see the drastic difference in the portrayal of women in the epic and the play. How Sanskrit became an Orientalist imperial weapon also may be analysed.

#### MODULE 1:

1.1S.S. Barlingay: "Various Senses of the Word Rasa" (A Modern Interpretation to Indian Aesthetic Theory. Ch.4 PP.84-102)

1.2K.K. Kunjunni Raja: The Theory of Dhvani (Indian Aesthetics. Ed. V.S. Sethuraman)

1.3 A K Ramanujan: "The Five Landscapes" (Ed. Poems of Love and War 236-43)

#### MODULE 2:

2.1 "Drona Parva" from the Mahabharata

2.2 Bhana Bhatta: Kadambari

#### Seminar:

2.3 "Sundara Kanda" from the Ramayana



## MODULE 3:

3.1 Kalidasa: Abhijnana Shakuntala (Ed. Romila Thapar)

3.2 Sudraka: Mrichakatika (The Little Clay Cart)

### Seminar:

3.3 Vishakhadatta: Mudrarakshasa

## MODULE 4:

4.1 Bhasa: Urubhanga

4.2 Jayadeva: "Song to the Melody Gurjari" in Gitagovinda

### Seminar:

4.3 Bhavabhuti: Uttararamacharita

## MODULE 5:

5.1 Ilango Adikal: Chilappatikaram

### Seminar:

5.2 "Palai" from A. K. Ramanujan (Poems of Love and War)

### Texts for Consultation:

1. S K Nandi. Studies in Modern Indian Aesthetics Simla: Indian Institute of Advanced Study, 1975

2. Sudhakar Pandey and V N Jha eds.: Glimpses of Ancient Indian Poetics: From Bharata to Jagannatha. Delhi: Indian Book Centre, 1993

3. A V Subrahmanian: The Aesthetics of Wonder: New Findings in Sanskrit Alankarasastra Delhi: Motilal Banarsidas, 1988

4. Kapil Kapoor: Literary Theory: Indian Conceptual Framework. New Delhi: Affiliate East-West Press, 1998.

5. Sushil Kumar De.: History of Sanskrit Poetics Calcutta: Firma, 1988.



UNION CHRISTIAN COLLEGE, ALUVA  
DEPARTMENT OF ENGLISH

M E Mathew Endowment Centenary  
Webinar Series

**Dravida Kavyamimamsa:  
Through Contemporary Lens**

**A Talk by Dr Prahesh TP**

**28 April 2021, 10.30 am**

Since 2004, Dr Prahesh has been doing research and writing on Dravida Kavyamimamsa. He has five publications in the area and has presented papers at various national seminars. His MPhil and doctoral theses attempt to provide a postmodern exposition of the *Tinai* concept in *Tolkapiyyam*. The talk will be in Malayalam.

Join Zoom Meeting  
<https://zoom.us/j/96342149204?pwd=a3NFQVh6aGJKL0ZtTElTemJ3b1NoZz09>  
**Meeting ID: 963 4214 9204 Passcode: 812818**  
No registration. Max. participants- 100; For further details Whatsapp 8281445920  
Faculty Co-ordinator: Akhila Narayanan, Assistant Professor, Dept of English

A special lecture was held on Dravida Kavyamimamsa for PG students to introduce students to Sangam Poetics.



## Nityadarsanam

Nitya Chaitanya Yati (1924-1999) was a philosopher, psychologist, author and poet. His writings have made him one of the world's leading exponents of Advaita Vedanta, including how it dovetails with modern scientific discoveries. Guru behaves and reacts as a person at the transactional level, and there he lays his emphasis on being fully committed to his unlimited liability for the welfare of all. In that context, service is his watchword. He is a friend of the lone, the lost, and the rejected. In his love, even the most heinous sinner can easily find a haven of care and protection. He lives and symbolizes truth by being silent and when he articulates, the truth of every word that he utters bursts in to a world of magnificent meaning that always inspires and elevates the heart of his listener. He sets before others an example by living his beautiful thoughts in a beautiful way.

He joined in Union Christian College, Aluva in 1947 to continue his academic studies. After specialising in Philosophy and Psychology in UCC he taught these subjects in two Indian Universities. He again sat at the feet of highly reputed sanyasis to learn Vedanta, Samkhya, Yoga, Mimamsa, Indian poetics and Literature with a special flair for the meaning of the Bhagavad Gita and the Bible. He was the founder - chairperson of the East-West University of Brahmavidya, and also worked as the Commissioner for World Education and as a sponsor of the World Government of World Citizens. His life in Union Christian College has helped him to understand Bible and Bhagavath Gita in its full meaning and put forth the idea of world citizenship. A world citizen recognizes the entire world as one's state and in principle does not recognize any member of one's own species as an alien to the world community to which oneself belongs. Such a person recognizes the earth as one's sustaining mother, the innate inviolable laws of nature as one's protecting father, and all sentient beings as sharing one's home."

Guru Nitya published over 120 books in Malayalam and 80 books in English, as well as countless articles on Philosophy, psychology, social ethics and aesthetics. He attained his Maha Samadhi on May 14, 1999, and his legacy of love and wisdom continues in his writing and in his disciples. He was destined to embrace, embody and illumine a vast world of human aspiration and attainment. In his role as teacher, Nitya inspired students throughout the world. As a friend, he consoled and guided. For the new generation, these are unknown....

In view of this we started a program in our college called "NITYADARSANAM".

### The main objectives are

1. Celebrating Guru Nitya Chaitanya Yati Jayanthi on November 2<sup>nd</sup>
2. Lecture series on guru's principles may be conducted in the college.
3. Quiz programs
4. Essay competitions
5. Exhibition on all books of Guru Nitya
6. Visits to Fernhill Gurukula, Ootty and to his birthplace at Konni, Pathanamthitta Dist.
7. Lectures in association with Guru's Samadhi day, May 14<sup>th</sup>.



## Activities 2019

The NITYADARSANAM program of Union Christian College was started in January 2019 and inaugurated by Vinaya Chaitanya, a disciple of natarajaguru and an old student of the Department of English, Union Christian College is a unique platform for students to interact with eminent personalities from various fields.

In this event, writer Shri. Shoukath and Vinaya Chaitanya were the speakers, while Dr. Thara K. Simon, Principal, Union Christian College, welcomed the audience, and Dr. Seena. M. Mathai delivered the vote of thanks.

The program was a resounding success, with the speakers sharing their insights and experiences. Students were enthralled by the speaker's wisdom and eloquence, and left the event feeling inspired and motivated.

The NITYADARSANAM program is a true asset to the Union Christian College community, and it is commendable that the college is committed to providing students with opportunities to learn from the best and brightest minds.









## *Program Schedule*

Welcome speech

Dr. Seena Mathai (HoD Psychology)

Presidential address

Dr. David Saj Mathew (Principal)

Talk & Interaction

***"Nitya chaitanya yati's teachings  
and their applications in life"***

by Shri. Shoukath (Yati's Disciple, Writer & Orator)

Felicitation

Rev. Dr. Thomas John

Mr. Shoban koodal (Writer)

Mr. Krishna Das Warriar (Poet)

Vote of thanks

Rekha Nair (Asst. Prof, English)



## 2020 Edition

Dr. Seena .M. Mathai welcomed the audience, followed by a presidential address by Dr. David Saj Mathew. Writer and Yati's disciple Shoukath interacted with the audience and talked about “Yati's teachings and their applications in life”. The program concluded with felicitations by Rev. Dr. Thomas John, Krishna Das Warriar, and a vote of thanks by Dr. Rekha Nair Asst. Prof, Dept. of English.

The program was a true confluence of minds, with speakers from different walks of life coming together to share their wisdom and knowledge. Dr. Seena .M. Mathai, Asst. Prof., Dept. of Psychology welcomed the audience with a warm and inspiring speech.

Writer and Yati's disciple Shoukath interacted with the audience and talked about Yati's teachings and their applications in life. Shoukath's talk was both insightful and inspiring, and he left the audience with a lot to think about.





Nityadarsanam 2022: A mind-blowing session of wisdom and insights.



**യു.സി. കോളേജ്, ആലുവ**  
നിത്യചൈതന്യത്തി  
ലക്ഷ്മർ സീരീസ് - III, 2021-2022  
**“മൂല്യങ്ങളുടെ സ്വരലയം”**

7 ജനുവരി 2022, രാവിലെ 10.00 മണി  
മിനി കോൺഫറൻസ് ഹാൾ, എം.സി.എ

പ്രാർത്ഥന :  
സ്വാഗതം : ഡോ. സീന. എം. മത്തായി,  
അസി. പ്രൊഫസർ, സൈക്കോളജി വിഭാഗം, യു.സി. കോളേജ്, ആലുവ.  
അദ്ധ്യക്ഷത : ഡോ. താരാ. കെ. സൈമൺ,  
പ്രിൻസിപ്പാൾ, യു.സി. കോളേജ്, ആലുവ.  
പ്രഭാഷണം :

**‘സ്ത്രൈണ ആത്മീയത’**  
ഡോ. റോസി തമ്പി

**‘അറിവ് എന്ന പ്രക്രിയ’**  
ഡോ. സുനിൽ. പി. ഇളയിടം,  
അസ്സോസിയേറ്റ് പ്രൊഫസർ, മലയാള വിഭാഗം,  
ശ്രീ ശങ്കരാചാര്യ സംസ്കൃതം യൂണിവേഴ്സിറ്റി, കാലടി.

**‘അപൂർവ്വ വൈദ്യന്മാർ - നിത്യചൈതന്യത്തി’**  
പുസ്തക പരിചയം  
ശ്രീ. ഷൗക്കത്ത്

നന്ദി : മിസിസ്. രേഖാ നായർ,  
അസിസ്റ്റന്റ് പ്രൊഫസർ, ഇംഗ്ലീഷ് വിഭാഗം, യു.സി. കോളേജ്, ആലുവ.

**സംഘാടകർ**

സൈക്കോളജി വിഭാഗം, ബയോസയൻസ് വിഭാഗം, ടി. പി. ജി. അസോസിയേഷൻ,  
യൂണിയൻ ക്രിസ്ത്യൻ കോളേജ്, ആലുവ.  
+91 9920 293 696

The program was kicked off with a welcome speech by Dr. Seena .M. Mathai, Asst. Prof in Psychology. The next session of Nityadarsanam 2022 featured three distinguished speakers from different walks of life:

- **Sunil P Ilayidam**, a renowned writer, orator and a Professor from Sree Sankaracharya Sanskrit University, explored the mysteries of knowledge.
- **Rosy Thampy**, a Rtd. professor in Malayalam and an author, took us on a journey of self-discovery.



• **Shoukath**, a writer, guru Nitya's disciple, and orator, reviewed the guru's book "Apoorva Vaidyanmaar."

Each speaker shared their unique perspectives and insights, leaving the audience with a lot to think about.

Sunil P. Ilayidam inspired us to think about the nature of knowledge and how we acquire it. He argued that knowledge is not simply a collection of facts, but rather a process of understanding and making meaning. Rosy Thampy reminded us of the importance of self-awareness.

Shoukath reviewed the guru's book "Apoorva Vaidyanmaar," which is a collection of stories about extraordinary healers. He spoke about how getting to know ourselves better can help us live more fulfilling and meaningful lives. Shoukath's talk was both informative and inspiring, and it left the audience with a sense of hope and possibility.

Overall, Nityadarsanam 2022 was a mind-blowing experience. The speakers were engaging and thought-provoking, and they left the audience with a lot to ponder.

The program ended with a vote of thanks by Dr. Rekha Nair, Asst. professor of English at Union Christian College.





### Kandal Club

This Club is Dedicated to the conservation of mangroves.



## ആലുവ യു.സി. കോളേജിൽ കണ്ടൽ കൃഷ്



▶ ആലുവ യു.സി. കോളേജിലെ കണ്ടൽ കൃഷ് ഉദ്ഘാടനച്ചടങ്ങിൽനിന്ന്

ആലുവ▶ ആലുവ യു.സി. കോളേജിൽ കണ്ടൽ കൃഷ് ആരംഭിച്ചു. പരിസ്ഥിതി പ്രവർത്തകൻ കണ്ടൽ പൊക്കുടന്റെ മകനും പരിസ്ഥിതി പ്രവർത്തകനും അധ്യാപകനുമായ ആനന്ദൻ പൊക്കുടൻ ഉദ്ഘാടനം ചെയ്തു.

ജലതരംഗ നീന്തൽ കൃഷ്യിന്റെ ഉദ്ഘാടനം നീന്തൽ പരിശീലകൻ സജി വാളശ്ശേരി നിർവഹിച്ചു.

വരുന്ന അധ്യയനവർഷം എറണാകുളം ജില്ലയിൽ 10,000 കണ്ടൽച്ചെടികൾ കോളേജിലെ കണ്ടൽ കൃഷ് വഴി നട്ടുപിടിപ്പിക്കുകയാണ് ലക്ഷ്യം. പ്രിൻസിപ്പൽ ഡോ. എം.ഐ. പുനൂസ് അധ്യക്ഷനായി.

അധ്യാപകരായ ഹനൂ ജി. ഭാസ്, ധനുഷ് ഡെയ്ൻസ്, ഫെമി അന തോമസ്, വിപിൻ തോമസ് എന്നിവർ സംസാരിച്ചു.

14/04/2023 ALUVA-ANGAMALY-KALADY Pg 13

Logo of Kallen Pokkudan Mangrove Tee Trust





## Dry Leaf Compost

Deciduous trees such as mahogany (*Swietenia mahagoni*) in our college campus shed their leaves during hot summer. These dried leaves are traditionally gathered and burnt to ashes. Instead, a collection of these dried leaves can be transformed into organic fertilizer. Moreover, these dried leaves are high in carbon and have a small amount of the nutrients that plants require to thrive. Dry leaf compost is created from plant materials such as grass, dry leaves, or vegetable leftovers that can be decomposed. Thereby, these dry leaf compost can help in enriching the soil, holding moisture, suppressing plant diseases, and filtering harmful pests. Composting reduces the need for chemical fertilizers.



Processing





### Management of Tea Waste from Canteen

Tea waste from canteen was successfully managed by converting it into a soil additive for artificial propagation of 3 plant species and Rooting of stem cutting technology using phytohormones for propagating 6 ornamental plants in the campus.





## Outcome

- Burning of dry leaves tremendously decreased thereby reducing the carbon footprint.



## List of Patents

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202141053609 A

(19) INDIA

(22) Date of filing of Application :22/11/2021

(43) Publication Date : 10/12/2021

(54) Title of the invention : LOW TEMPERATURE SYNTHESIS OF NON-TOXIC MONOCLINIC YTTRIUM OXIDE QUANTUM DOTS FOR DISPLAY AND BIOMEDICAL APPLICATIONS

(51) International classification :B82Y0030000000, G01N0021650000, C09K0011770000, C01F0007000000, G01N0033220000

(86) International Application No :NA  
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA  
Filing Date :NA

(62) Divisional to Application Number :NA  
Filing Date :NA

(71)Name of Applicant :

1)SOORYA G NATH

Address of Applicant :DEPARTMENT OF PHYSICS, UNION CHRISTIAN COLLEGE, ALUVA, KERALA, INDIA 683102 -----

2)ANILA E I

Name of Applicant : NA  
Address of Applicant : NA

(72)Name of Inventor :

1)SOORYA G NATH

Address of Applicant :DEPARTMENT OF PHYSICS, UNION CHRISTIAN COLLEGE, ALUVA, KERALA, INDIA 683102 ---  
-----

2)ANILA E I

Address of Applicant :DEPARTMENT OF PHYSICS AND ELECTRONICS, CHRIST (DEEMED TO BE UNIVERSITY), HOSUR ROAD, BANGALORE 560029, KARNATAKA, INDIA. -----

(57) Abstract :

Monoclinic Y2O3 quantum dots were synthesized at low temperature using urea as the fuel. The sample preparation was done using simple laboratory hot air oven and the synthesis temperature was maintained at 90°C throughout the experiment. Prepared samples were characterized using x ray diffraction (XRD), Raman spectroscopy, high resolution transmission electron microscopy (HRTEM), UV- Vis absorption spectroscopy and photoluminescence (PL) Studies. X Ray diffraction graphs had very broad peaks which may be due to the merging of different peaks caused by low particle size and hence could not be used for phase determination. The phase formation was confirmed using Raman spectroscopy and selective area diffraction pattern (SAED). The diffraction rings in the SAED pattern were used to calculate the interplanar spacing of the material. The size of the prepared nanoparticles was measured using HRTEM and the average particle size was found to be 2.4 nm. The bandgap of the material was calculated using Tauc plot and the value obtained was 5.48 eV. Cytotoxicity studies were performed for the prepared sample using MTT assay method on L6 cell lines. The half maximal inhibitory concentration (IC 50 value) of the sample was measured and the value obtained was 194.91 ug/ml. Doped samples were also prepared by the same method using Eu<sup>3+</sup> ions as the dopant. Photoluminescence studies were carried out for the undoped and europium doped samples. Strong blue and red emissions were observed in pure and europium doped samples respectively. This shows that the material can have applications in display industry. The present work gives an experimental confirmation for the formation of monoclinic Y2O3 at low temperature when the particle size is extremely small. Also, the cytotoxicity studies pave the way for further investigations on the biomedical applications of the material.

No. of Pages : 15 No. of Claims : 4



(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241024708 A

(19) INDIA

(22) Date of filing of Application :27/04/2022

(43) Publication Date : 13/05/2022

(54) Title of the invention : NOVEL RARE-EARTH (EUROPIUM OR TERBIUM) DOPED STRONTIUM ALUMINATE NANOPARTICLES FOR FLUORESCENT STAINING OF LIVE PLANTS

<p>(51) International classification :C09K0011770000, G01N0033580000, C09K0011060000, H01J0061440000, C12Q0001060000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)NEENU MARY THOMAS Address of Applicant :DEPARTMENT OF PHYSICS, UNION CHRISTIAN COLLEGE, ALUVA, KERALA, INDIA, PIN CODE-683102. ----- 2)NAIJIL GEORGE 3)VIJIMO 4)ANIL E I Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)NEENU MARY THOMAS Address of Applicant :DEPARTMENT OF PHYSICS, UNION CHRISTIAN COLLEGE, ALUVA, KERALA, INDIA, PIN CODE-683102. ----- 2)NAIJIL GEORGE Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, ST.JOSEPH'S COLLEGE(AUTONOMOUS), IRINJALAKUDA, KERALA, INDIA, 680121 ----- 3)VIJIMO Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, ST.JOSEPH'S COLLEGE(AUTONOMOUS), IRINJALAKUDA, KERALA, INDIA, 680121 ----- 4)ANIL E I Address of Applicant :DEPARTMENT OF PHYSICS AND ELECTRONICS, CHRIST(DEEMED TO BE UNIVERSITY), HOSUR ROAD, BANGALORE, KARNATAKA, INDIA, 560029 -----</p>
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(57) Abstract :

The present invention reports in vivo nontoxic strontium aluminate based fluorescent dyes for live imaging of plants. Terbium doped strontium aluminate (TSA) and europium doped strontium aluminate (ESA) nanoparticles were prepared by microwave assisted solid state reaction at 1100°C. The doped strontium aluminate powder samples were characterized by X-ray diffraction, FTIR (Fourier-transform infrared spectroscopy) studies, and photoluminescence studies. Analysis of the X-ray diffractogram showed that the samples are strontium aluminate with the dominant phase of SnAl<sub>2</sub>O<sub>6</sub> with an average crystallite size of 18 nm and 23 nm respectively for TSA and ESA nanoparticles. FTIR spectrum revealed metal-oxygen bonds corresponding to strontium aluminate. TSA and ESA nanoparticles exhibited green and reddish-white fluorescence respectively on exposure to U V light. The TSA and ESA nanoparticles were incorporated in the plant tissue culture MS medium and Clitoria ternatea seeds were inoculated. In vitro, culture studies showed that the strontium aluminate nanoparticles were non-toxic to plants. With the integration of nanoparticles, there .. was no change in plants' structure or physiological features. Fluorescent imaging studies of plantlets showed an active absorption of nanoparticles through roots. Images of fluorescence microscopy of root and shoot confirmed the presence of fluorescent particles in xylem and pericycle. Plants with in-built fluorescent nanoparticles offer an efficient method to visualize plants fluorescently, bypassing conventional staining procedures. Due to the fluorescence shown by plants with in-built nanoparticles, they can be regarded as Glowing Plants in UV light.

No. of Pages : 15 No. of Claims : 7



FORM- 5 THE PATENTS ACT, 1970 (39 of 1970) & The Patents Rules, 2003 DECLARATION AS TO INVENTORSHIP [See Section 10(6) and Rule 13(6)]		
1. NAME OF THE APPLICANT(S)  I/We, Dr. R. GOPINATH et. al., all are citizen of India, Address of one of the Applicant: D.Litt. (Business Administration)-Researcher & BSNL Engineer, Madurai Kamaraj University, Palkalai Nagar, Madurai- 625021, Tamil Nadu.		
hereby declare that the true and first inventor(s) of the invention disclosed in the complete specification filed in pursuance of <del>my/</del> our application numbered _____ dated 19-12-21 <del>is/are</del>		
2. INVENTOR(S)		
(a) NAME	(b) NATIONALITY	(c) ADDRESS
1. Dr. R. GOPINATH	INDIAN	D.Litt. (Business Administration)-Researcher & BSNL Engineer, Madurai Kamaraj University, Palkalai Nagar, Madurai- 625021, Tamil Nadu.
2. Dr. Arya Kumar	INDIAN	Assistant Professor, KIIT School of Commerce and Economics, KIIT Deemed to be University, Bhubaneswar- 751024, Odisha.
3. Dr.S.V.Akilandeeswari	INDIAN	Guest/Part Time Teacher, The Gandhigram Rural Institute-Deemed to be University, Gandhigram-Chinnalapatti, Dindigul-624302, Tamil Nadu.
4. Dr. Renju Chandran	INDIAN	HoD and Assistant Professor, School of Management Studies, Union Christian College, Aluva- 683102, Kerala.
5. Sarath Chandran MC	INDIAN	Assistant Professor, Department of Commerce and Management, Amrita School of Arts and Science, Amrita Vishwa Vidhyapeetam, Amritapuri,



		Kollam- 690525 Kerala.
6. BASAVARAJ S MAMMANI	INDIAN	Assistant Professor, Faculty of Business Studies MBA, Sharnbasva University, Sharan Nagar, Kalaburagi- 585103, Karnataka.
<del>3. DECLARATION TO BE GIVEN WHEN THE APPLICATION IN INDIA IS FILED BY THE APPLICANT(S) IN THE CONVENTION COUNTRY:-</del>		
N.A.		
<del>We the applicant(s) in the convention country hereby declare that our right to apply for a patent in India is by way of assignment from the true and first inventor(s).</del>		
Dated this 19 <sup>th</sup> day of December, 2021		Dr. R. GOPINATH et. al. Applicant(s)
To, The Controller of Patents The Patent Office, Chennai		



<b>FORM 2</b> THE PATENTS ACT, 1970 (39 of 1970) & The Patent Rules, 2003 <b>PROVISIONAL SPECIFICATION</b> (See sections 10 & rule 13)		
<b>1. TITLE OF THE INVENTION</b>  <b>PRESSED ENRICHED WHOLE PLANT SALVINIA PITH (SALVIPITH) GRAINS, ITS PRODUCTION METHODS, AND USE THEREOF</b>		
<b>2. APPLICANT (S)</b>		
<b>NAME</b>	<b>NATIONALITY</b>	<b>ADDRESS</b>
NAYAGAM, Justin Raja	IN	Assistant Professor & Research Guide, Department of Botany, Union Christian College, Aluva, Kerala - 683102, India.
ADIERY, Sagna	IN	Research Scholar, Department of Botany, Union Christian College, Aluva, Kerala - 683102, India.
<b>3. PREAMBLE TO THE DESCRIPTION</b>		
<b>PROVISIONAL SPECIFICATION</b> The following specification describes the invention.		



## ABSTRACT

### **PRESSED ENRICHED WHOLE PLANT SALVINIA PITH (SALVIPITH) GRAINS, ITS PRODUCTION METHODS, AND USE THEREOF**

- 5 The present invention relates to soil additives. Specifically, the present invention relates to a process for the production of a soil additive from a floating hydrophytic pteridophytic weed plant salvinia as salvipith, comprises forming the salvinia plant into a powder form. Further, the process for the production of salvipith as a soil additive is economical and of ecological importance. Also, the salvinia powder can
- 10 be a substitute for cat litter and other types of pet bedding and litter.

For NAYAGAM, Justin Raja and ADIERY, Sagna

Tarun Khurana

Regd. Patent Agent [IN/PA-1325]

Dated: 31<sup>st</sup> May, 2023

15



## Incubation and Start-Up

Water hyacinth is one of the most invasive water weeds all around the world. Since these weeds have no local competition it's hard to control their growth. So, to be a part of the mission of helping to remove these weeds, we have developed some value-added products. (8 month's project and with the fund of 1.8 lakhs from Kerala Start-up Mission granted to Sreeya Kudilil M.Sc Biotechnology student of Bioscience department). The plants have been collected from nearby ponds and fields. The fibre of water hyacinth has great absorption capacity so we have developed organic fertiliser sticks from that and this makes home gardening easier. We also have made handicrafts out of the water hyacinth stalks. They can be made into beautiful baskets, pencil stands, file holders etc.

**Research incubation program team of MG University team visiting our project site**





## Handicraft Items Made from Waterhyacinth Launched by Our Principal







## Fertilizer Sticks Made from Water Hyacinth





## Research Incubation Programme

### Sanction order

12/7/22, 2:55 PM

Gmail - MGU-RINP - Shortlisted Candidates reg.

**Mob: 7034390434**

Thanks and regards

**Dr.Radhakrishnan E.K.**

Assistant Professor, School of Biosciences (SBS),

Hon. Director, Business Innovation and Incubation Centre (BIIC)

J. Director, Inter University Centre for Organic Farming and Sustainable Agriculture (IUCOFSA)

Mahatma Gandhi University

PD Hills (PO), Kottayam, Kerala - 686 560

**Web link:** <https://sbs.mgu.ac.in/radhakrishnan-e-k/>

<https://sites.google.com/view/rk-mgu>

**Google scholar:** <https://scholar.google.co.in/citations?user=KSITR6EAAA&hl=en&oi=ao>

 **Consent Letter\_Template.docx**  
9K



12/7/22, 2:55 PM Gmail - MGU-RINP - Shortlisted Candidates reg.

**M** Gmail Sreeya Jayaram <sreeya.jayaram456@gmail.com>

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**MGU-RINP - Shortlisted Candidates reg.**

**MGU Startups** <mgustartups.ksum@gmail.com> Tue, Dec 6, 2022 at 5:52 PM  
To: sreeya.jayaram456@gmail.com

Dear Applicant,

Congratulations! Your application has been shortlisted under the Research Incubation Programme as per the recommendation by the Assessment Committee. Details are as follows.

Name of the Applicant: **Sreeya Kudilil**

Name of the Proposal: **Development of fertilizer sticks for potted plants**

Recommended Amount: **Rs. 1,80,000/-**

You are hereby requested to send a consent letter in the attached template assuring the completion of the project for the above-mentioned amount within a period of 8 months of fund transfer. Based on your reply, processing will be initiated for the transfer of the first instalment of the grant.

Your early response in the same is highly appreciated.

We are also happy to inform you that the official announcement on the selection of your project will be done during the prestigious program of the Kerala Startup Mission "Huddle Global 2022" which has been scheduled during 15-16 December 2022 at the Leela Kovalam, Trivandrum. Hence you are suggested to participate in the same for the official acceptance of your proposal. As per the conditions by Kerala Startup Mission you are hereby suggested to pay an amount of Rs.500/- (discounted amount for shortlisted candidates) to participate in the 'Huddle Global 2022'.

For further details, you may contact

**Mr. Nikhil Raj R**  
Assistant Manager (Business)  
Research Incubation Programme  
Mahatma Gandhi University

<https://mail.google.com/mail/u/0/?ik=609e8bd0ce&view=pt&search=all&permmsgid=msg-f%3A1751467313035733669&siml=msg-f%3A175146> 1/2