

SREE NARAYANA COLLEGE, PUNALUR

AQAR 2023-2024

6.5.1 The Role of the Internal Quality Assurance Cell (IQAC) in Institutionalizing Quality Assurance Strategies and Processes

Supporting Documents Attached

- 1. IQAC Five Year Master Plan & Deployment details with Supporting Documents**
- 2. Energy Audit 2023- 2024**
- 3. Green Audit 2023 - 2024**
- 4. Green Campus Initiatives at Sree Narayana College Punalur**

6.5.1 - Internal Quality Assurance Cell (IQAC) has contributed significantly for institutionalizing the quality assurance strategies and processes

The Internal Quality Assurance Cell (IQAC) of Sree Narayana College, Punalur, plays a pivotal role in institutionalizing quality assurance strategies and processes. From 2023 onwards, the IQAC has effectively devised and implemented a comprehensive five-year action plan focused on sustainable development in key areas. This strategic initiative prioritizes infrastructural advancements, aiming to enhance the physical facilities of the institution. These improvements are designed to create an enriched academic environment that supports the higher education aspirations and overall well-being of students. By aligning its objectives with academic and social development goals, the IQAC ensures that the college remains committed to fostering excellence and continuous improvement.

SREE NARAYANA COLLEGE, PUNALUR FIVE-YEAR MASTER PLAN FOR HOLISTIC DEVELOPMENT

Introduction

This document outlines a comprehensive five-year development plan for Sree Narayana College, Punalur, aimed at addressing the key needs of stakeholders and fostering the institution's overall growth. Rooted in the principles of inclusivity, quality education, and sustainable progress, the plan envisions transforming the college into a vibrant center of academic excellence, research, and community engagement, particularly in a rural setting.

Our Vision

To establish Sree Narayana College, Punalur, as a center of excellence that provides inclusive, equitable, and high-quality education, empowering students to contribute meaningfully to society. The governance of the college reflects a harmonious alignment with its vision, underpinned by visionary leadership and rooted in the transformative teachings of Sree Narayana Guru. Inspired by the ideals of equality, empowerment, and intellectual liberation, the college strives to uplift marginalized communities while fostering critical thinking, moral integrity, and societal transformation. By balancing tradition and modernity, the college aims to nurture socially conscious, culturally enriched, and intellectually capable individuals prepared to adapt to global

and societal demands.

Our Mission

- To impart quality education and lifelong learning opportunities to students, particularly from rural and marginalized communities.
- To foster research, innovation, and skill development for holistic student growth.
- To ensure inclusive and participatory governance that promotes accountability, transparency, and collaborative decision-making.
- To build strong community relationships through outreach and social responsibility programs that address women's empowerment, environmental conservation, and skill development.
- To instill nationalism, patriotism, and ecological consciousness, empowering students to become responsible citizens and stewards of the planet.
- To provide a sustainable and eco-friendly campus while integrating modern teaching methods, technology, and research initiatives.
- To uphold the timeless wisdom of Sree Narayana Guru's philosophy of inclusivity, unity, and social equity, transcending barriers of caste, creed, religion, and socio-economic disparity.

Core Principles

- Inclusivity and Diversity
- Innovation and Research Excellence
- Social Responsibility and Community Engagement
- Environmental Sustainability
- Transparency and Accountability

Goals for the Next Five Years

1. **Academic Excellence**
2. **Teaching and Learning**
3. **Research and Development**
4. **Mobilization of Funds**
5. **Library Renovation**
6. **Administrative Reforms**
7. **General Infrastructure Development**
8. **Human Resource Development**
9. **Best Practices**

STRATEGIC PLAN

The college has a well-charted and systemic strategic plan for the effective dissemination of teaching and learning, conduct of research, promotion of extension activities, enhancing the infrastructure

facilities etc. for the holistic development of students in the higher education system. The following are the thrust areas where the college tries to implement policies for the effective execution of the strategic plan.

THRUST AREAS	Strategy
Academic Excellence	<ul style="list-style-type: none"> ➤ Encourage more faculty members to pursue doctoral degrees. ➤ Organize faculty orientation program ➤ Upgrading Departments: Elevate undergraduate (UG) departments to postgraduate (PG) and research levels. <p>UG to PG: English, Economics, Commerce, Zoology PG to Research: Chemistry, Mathematics, History ,Physics New UG Courses: EnglishLanguage & Literature, Botany, Malayalam, Hindi, Political Science</p> <ul style="list-style-type: none"> ➤ Offer more certificate courses in different subjects.
Teaching and Learning	<ul style="list-style-type: none"> ● Strengthen ICT Facilities and Digital Teaching Methods . ● Promote Industrial Visits and Field Visits ● Conduct more seminars, workshops, and invited talks to improve communication and critical thinking skills. ● Continue the mentor-mentee system to nurture meaningful relationships between teachers and students. ● Continue Peer teaching, remedial sessions, internships, group discussions and seminars ● Regular academic and administrative audits ● Set up more smart classrooms for UG and PG programs. ● Enable classrooms with live-streaming capabilities for external lectures. ● Providing hi-speed network connectivity throughout the college ● Enroll more students in MOOCs ● Upgrade Lab Lab ● Upgrade digital library with access to more e-books, journals, and research databases.
Research and Development	<ul style="list-style-type: none"> ● Strengthen the functioning of Research and Development Committee ● Raising funds from national and International funding agencies and developing projects at national and international level. ● To equip students and teachers for UGC listed publications.

	<ul style="list-style-type: none"> ● Organize national and international seminars, conferences, and workshops ● Publish annual research journals from each department. ● Develop centralized research labs with modern equipment. ● Introduce research projects focused on local environmental, social, and economic challenges. ● Improving Institution-industry collaboration & more MOU ● Promote interdisciplinary research ● Encourage all faculty members to obtain doctoral degree ● Increase the number of research guides among faculty.
Mobilization of Funds	<ul style="list-style-type: none"> ● Acquire grants from government and non-government sources for infrastructure and learning development. (DST- FIST, RUSA grants) ● Mobilize funds from Parent Teacher Association. ● New scholarships ● Mobilize grants from government and non- government agencies organize seminars and workshops on important days. ● Upgrade gym facilities ● Improve solar facilities ● Improve Rainwater Facilities ● Encourage voluntary contributions from teachers and non-teaching staff
Library Renovation	<ul style="list-style-type: none"> ● To add books in all titles. ● Increase journal subscription and e- resources ● Infrastructure expansion and reformation of the reference section
Administrative Reforms	<ul style="list-style-type: none"> ● Implement online attendance, result analysis, and student performance tracking systems. ● Introduce an online feedback system for students and parents. ● Organise more training sessions for administrative and laboratory staff for improved efficiency. ● Ensure sufficient technical and cleaning staff for campus upkeep. ● Strengthen alumni associations to support academic and infrastructure growth.

	<ul style="list-style-type: none"> ● Upgrading the existing college website.
General Infrastructure Development	<ul style="list-style-type: none"> ● Renovation of Department Laboratories. ● Acquiring equipment for Laboratories ● Renovation of Canteen ● Installation of rainwater harvesting system. ● Improving sports facilities and acquiring sports equipment. ● Maintaining Solar Energy projects to meet rising energy requirements ● More infrastructural facilities for differently-abled ● Renovation of Football Ground ● Beautification of College Premises ● Renovation of washroom facilities for students.
Human Resource Development	<ul style="list-style-type: none"> ● Strengthen Career Guidance and Counselling sessions ● Encourage students to participate in Co- curricular and Extracurricular activities. ● Enhance Campus Placement opportunities for students ● Introduce entrepreneurship programmes for nurturing entrepreneurial talents. ● Organize on-campus placement drives in collaboration with industries and other educational institutions. ● Introduce more training programmes for sports and games activities. ● Encourage teachers to participate in Faculty Development Programme Seminars , Workshops and Conferences ● Organize more workshops and training sessions for teaching and non-teaching staff .
Best Practices	<ul style="list-style-type: none"> ● Strengthen Best Practices: KANIVU- Helping hand to the poor students ● Conduct Energy and Green Audits ● More community outreach programmes ● Continue Gurudarshanam-to propagate the ideals and vision of Sri Narayana Guru among the students ● Motivate students to participate in services of Pain and Palliative Care

Conclusion

The five-year master plan for Sree Narayana College, Punalur, aims to bridge the gap between rural challenges and modern educational standards. Through infrastructural upgrades, academic reforms, and community-focused initiatives, the college is committed to empowering its students and becoming a beacon of excellence in higher education.

DEPLOYMENT DOCUMENTS

Sree Narayana College, Punalur has effectively charted out and implimenting the five year action plan from 2023 onwards for the sustainable development of essential areas which will further help the academic and social well-being of the students. Among the strategic plans, the college gives due priority to the infrastructural development which will strengthen the physical facilities of the college thereby providing ample opportunities for the higher education pursuits of students at the college.

Plan	Deployment
Encourage more faculty members to pursue doctoral degrees	Dr. Biji M. S , HOD, Department of Malayalam submitted her Doctoral Thesis.
Organize faculty orientation program	<ol style="list-style-type: none"> 1. IQAC Organised “AQAR Preparation Work shop” on 26.03.2024 2. IQAC Organised a talk on “Stress Management” on 26.03.2024 3. Four Year UG Programme(FYUGP)-College Level Training Programme-Organised by IQAC on 4.03.2024 4. A program on the “Introduction to Universal Human Values” was organized by the IQAC in the Seminar Hall on 5/09/2023 5. ASAP Cell of the college in association with Oracuz Infotech Private Ltd, a workshop on Artificial Intelligence

	and Data Science organised on 10-08-23
Offer more certificate courses in different subjects.	<ol style="list-style-type: none"> 1. English-Communicative English 2. Economics-Economics in every day life 3. Commerce-Certificate course in Tally 4. Maths-Microsoft excel 5. Physics- Basics of Python
Strengthen ICT Facilities and Digital Teaching Methods .	<ol style="list-style-type: none"> 1. Faculty continue to make use of Google classrooms, Power Point Presentations, Google Meet to make teaching- learning effective. 2. Repaired computers, projectors , smart boards, wifi connectivity etc to facilitate smooth conduct of digital teaching- learning.

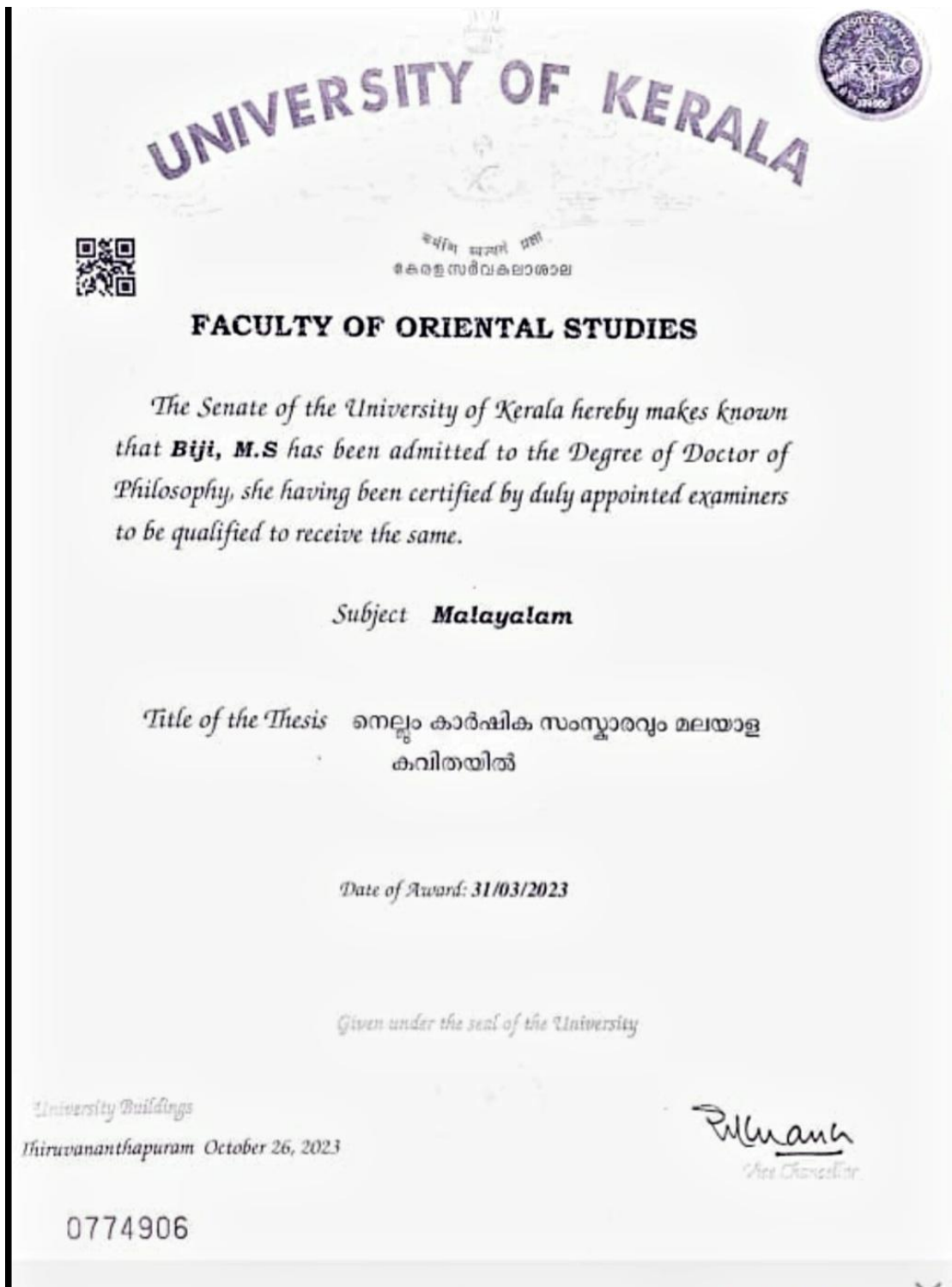
<p>Promote Industrial Visits and Field Visits</p>	<ol style="list-style-type: none"> 1. Department of Physics conducted an Industrial for final year UG students to “Tasty World Food Factory”, Karnataka on 7.02.24 2. Department of Physics conducted an Industrial for final year UG students to “Kerala Agro Fruit Product Factory”, Kollam on 21.03.24 3. Department of Commerce conducted a field visit for Second year UG students to “Alappuzha Coir Factory” on 6.03.2024. 4. Department of Chemistry conducted an Industrial for final year UG students to “Tasty World Food Factory”, Karnataka on 13.01.24 5. Department of Chemistry conducted an Industrial for Second Year PG students to “Kerala Minerals and Metals Limited”, Kollam on 22 August 2023. 6. Department of Zoology organised a field visit for sixth semester UG students on 20.02.2023 during which they visited Mysore Ranganathittu Bird Sanctuary, Mysore and Chamarajendra Zoological Garden, Mysore. 7. Department of History organized a three day field visit for third year UG students from 12.01.2024 to 16.01.2024 to Mysore Palace, Jaganmohan Palace & Art Gallery, St. Philomena’s Church, Chamundi Hill, Chamundeshwari Temple, Madikeri Fort, Omkareshwara Temple etc to provide them with firsthand experience of historical cities and cultural landmarks
<p>Conduct more national and international seminars, workshops, and invited talks to improve communication and critical thinking skills.</p>	<ol style="list-style-type: none"> 1. Department of Zoology organised a session on 'Medical Coding' on 12.01.2024 2. Workshop on Artificial Intelligence and Data Science (ASAP Cell of the college in association with Oracuz Infotech Private Ltd, a workshop on Artificial Intelligence and Data Science) organised on 10-08-23. 3. A Talk on Introduction to Universal Human Values Organized by IQAC 05.09.2023 4. Literary club and Malayalam department jointly organized Keralapiravi celebration. Literary club and Malayalam department

	<p>jointly organized 'Keralapiravi' celebration on 6/11/2023.</p> <p>5. Quiz competition -conducted by Debate Club and FSA on 11.08.2023</p> <p>6. Human Rights Forum at SN College Punalur celebrated Human rights day on 12/12/2023.</p> <p>7. SEMINAR ON 'CAREER PROSPECTS AND CHALLENGES' CONDUCTED ON 08/11/2023</p>
Continue the mentor-mentee system to nurture meaningful relationships between teachers and students.	All departments maintain a system related with mentor mentee relations.
Continue Peer teaching, remedial sessions, internships, group discussions and seminars	<p>All departments continually following the various practices related with peer teaching and remedial sessions.</p> <p>2 students from Dept. of Chemistry successfully completed their internship organised at CIPET Palakkad.</p>
Enroll more students in MOOCs	<p>The academic year 2023-2024 saw a remarkable participation in the NPTEL program, with 81 students from our institution enrolled in the program. Of these, 10 students successfully registered for the examination, and notably, 9 students cleared the exam. Dr. Niju P from the Department of History provided mentorship for this program.</p> <p>Compared to the previous academic year (2022-2023), which had 68 enrollments and 6 students cleared the exam. This year's participation and success rates demonstrate a notable improvement.</p>
To equip students and teachers for UGC listed publications.	<p>During the year 2023-24 seven teachers from the following departments were published their publications in various UGC care listed publications.</p> <p>Zoology -2 Chemistry -2 Mathematics -2 Economics -1</p>
Improving Institution-industry collaboration & more MoU	<ul style="list-style-type: none"> ● Department of Physics collaborated with TKM College Kollam. ● Department of Physics collaborated with St. Gregorious


	<p>College, Kottrakkara.</p> <ul style="list-style-type: none"> ● Sree Narayana College , Punalur collaborated with Veranda Learning Solutions Limited, Chennai
Acquire grants from government and non-government sources for infrastructure and learning development. (DST- FIST, RUSA grants)	Amount received from RUSA utilised for constructional activities in 2023-2024 amounted Rupees 11786743.
Mobilize funds from Parent Teacher Association.	Mobilised fund from Parent Teacher Association and utilised for various developmental activities in college.
Mobilize grants from government and non-government agencies to organize seminars workshops and observance of important days.	Mobilised the fund received from Environment and Climate change of the Government by celebrating World Environment Day on June 5.
Improve solar facilities	To enhance efficiency and ascertains the proper functioning of the solar panel cleaning activities are regularly conducted by 3yr students. Additionally an app (SOLARMAN Smart) is being used monitor the functionaling of the solar panel.
Strengthen alumni associations to support academic, non academic and infrastructural growth.	<p>Scholarships for students having higher grades.</p> <p>Protein support for athletes.</p> <p>Sponsorship related with hostel</p> <p>Civil service training</p> <p>Thooval sparsham- counselling for students</p> <p>Conducted quizzes and seminars in support with alumni .</p>
Upgrading the existing college website.	Maintaining up to date informations in College website.
Acquiring equipment for Laboratories	Using the funds from PTA chemicals, equipments etc were purchased for various department laboratories.
Renovation of Canteen	Renovations were made during this year.

<p>Beautification of College Premises</p>	<p>Key initiatives include landscaping with trees, flowers, and lawns, along with hardscaping features like pathways, seating areas, fountains, and sculptures. Maintaining clean and well-painted buildings, installing decorative lighting, and incorporating sustainability measures like rainwater harvesting and solar panels also contribute to the campus's aesthetics. Regular cleaning, student involvement in gardening and art projects, and the creation of recreational spaces like sports fields and playgrounds further enhance the atmosphere. These efforts not only improve the physical appearance of the campus but also foster a sense of community and responsibility among students and staff.</p>
<p>Renovation of washroom facility for students</p>	<p>Improvements were made in both ladies and gents' washroom.</p>
<p>Introduce more training programme for sports and games activities</p>	<p>By providing workout training to our students every day, during the year the following achievements were made; Cross country mens team winners Cross country womens team runners up Jessu Jayan- body building third position inter college participation Kerala university 1st Runnersup.</p>
<p>Encourage students to participate in co-curricular and extra curricular activities</p>	<p>Students from various departments participated in Kerala University Kalolsavam . Students were participated in quiz competitions.</p>
<p>Strengthen carrier guidance and placement cell</p>	<p>Total students got placement: 9 including 7 females and 2 males.</p>
<p>Conduct green and energy audit</p>	<p>A green and energy audit involves assessing and improving a college's sustainability and energy efficiency. Key activities include analyzing energy consumption by reviewing utility bills and using energy meters, and inspecting buildings for efficient lighting, insulation, and windows. Waste and water usage audits are conducted to identify opportunities for recycling, reducing waste, and conserving water. Finally, reports are generated with recommendations, followed by implementing energy-saving upgrades and ongoing monitoring for continuous improvement.</p>
<p>Strengthen best practices KANIV and GURUDARSHAN</p>	<p>The best practice followed are KANIV and GURUDARSHAN.</p>

The institutional Strategic/ perspective plan is effectively deployed BY IQAC:
Supporting Documents



Dr. Biji M. S , HOD, Department of Malayalam submitted her Doctoral Thesis.



SREE NARAYANA COLLEGE, PUNALUR.
 Affiliated to University of Kerala.
 NAAC Re-Accredited with B++

**Internal Quality Assurance Cell (IQAC)
 sponsors**

**AQAR PREPARATORY
 WORKSHOP**
 on
26.03.2024

Resource Persons: Dr.Divya Sadasivan
 IQAC Coordinator
Dr.Bijo S Anand
 Associate Professor
 Dept. of Mathematics

Venue: Seminar Hall
TIME: 2.00 PM

Organising Committee
 Sri.Vellapally Natesan(Patron)
 Dr.Shiny Mathews(Principal in Charge)
 Dr.Divya Sadasivan(IQAC Coordinator)

IQAC Members :
 Dr.Santhosh R
 Dr.Prasanth S
 Ms.Jasmine Rose J
 Dr.Kavitha K S
 Ms.Reshma R
 Ms.Resmi Ravindran
 Dr.Deepthi P. R
 Dr.Nikhila M P



IQAC Organised “AQAR Preparation Work shop” on 26.03.2024



IQAC sponsored talk on Introduction
to Universal Human Values held on
05/09/2023 at 10:00 AM - Seminar Hall
Resource Person - Dr. S. Ushakumari Professor,
Head of the Department Electrical Engineering,
College of Engineering, Tiruvallur

- | | | |
|----|----------------------|--|
| 1 | Dr. Santhosh R. | |
| 2 | Dr. Shiny Mathews | |
| 3 | Dr. Biji M.S. | |
| 4 | Dr. Vyanna S.P. | |
| 5 | Resma A. | |
| 6 | Dr. Raja S. Rajan | |
| 7 | Ahira Madhavan | |
| 8 | Ansha S.S. | |
| 9 | Reema R. | |
| 10 | Chowdhury Abhikarman | |
| 11 | Dr. Shilpa A | |
| 12 | Dr. Anitha P.R. | |
| 13 | Syama S.N. | |
| 14 | Dr. Dupka V.S. | |
| 15 | Jaya L. | |
| 16 | Dr. Jisha Madan | |
| 17 | Dr. Nithya D. | |
| 18 | Sheela Jose | |
| 19 | Deepthi P.S. | |
| 20 | Dr. Vishnu S.S. | |
| 21 | Dr. Nivu P. | |
| 22 | Arthul. T.B. | |
| 23 | Dr. Prasanth S. | |
| 24 | Dr. Biju S. Anand | |
| 25 | Raji V. | |
| 26 | Neeha Peadeep | |

IQAC Organised a talk on "Stress Management" on 26.03.2024



SREE NARAYANA COLLEGE PUNALUR

Affiliated to University of Kerala,
Reaccredited by NAAC with Grade B++

FOUR YEAR UG PROGRAMME(FYUGP)- COLLEGE LEVEL TRAINING PROGRAMME

04 March 2024

Organized by

IQAC
Sree Narayana College
Punalur

Programme

Venue: Seminar hall

Time: 10 am 4/3/2024

Prayer

Welcome: Dr. Shiny Mathews (Principal In Charge)

Technical Session I: (10 am to 11.30 am)

Dr. Ajesh S R, Assistant Professor,

Department of Commerce, KSMDDB College, Sasthamcotta

Technical Session II: (12 to 1.30 pm)

Dr. Anitha P, Associate Professor,


Dept of Mathematics, B.J.M Govt. College, Chavara.

Vote of Thanks: Dr Divya Sadasivan (IQAC Coordinator)



 Punalur, Kerala, India
2W96+5M4, Chemmanthoor, Punalur, Kerala 691305, India
Lat 9.017291°
Long 76.911814°
04/03/24 10:17 AM GMT +05:30



 Punalur, Kerala, India
2W96+4MV, Chemmanthoor, Punalur, Kerala 691305, India
Lat 9.017726°
Long 76.911856°
04/03/24 01:58 PM GMT +05:30

Four Year UG Programme(FYUGP)-College Level Training Programme-Organised by IQAC on 4.03.2024

Programme Schedule

Welcome Address
Dr Divya Sadasivan

Inauguration & Presidential
Address
Dr Santhosh R

Keynote Address
Dr. S. Ushakumari

Vote of Thanks
Dr. Prasanth S

Organising Committee
Sri Vellapally Natesan - Manager, S N Colleges
Dr Santhosh R -Principal in Charge
Dr Jayadevan -Treasurer SN Trust
(Ex-officio President)
Dr Divya Sadasivan -(Coordinator)
Dr Shiny Mathews
Ms. Jasmin Rose J
Dr Prasanth S
Ms. Reshma R
Ms. Resmi Ravindran
Dr R Raveendran, SN Trust
Sri. K Suresh Kumar, Convenor, RDC

Sree Narayana College
Punalur



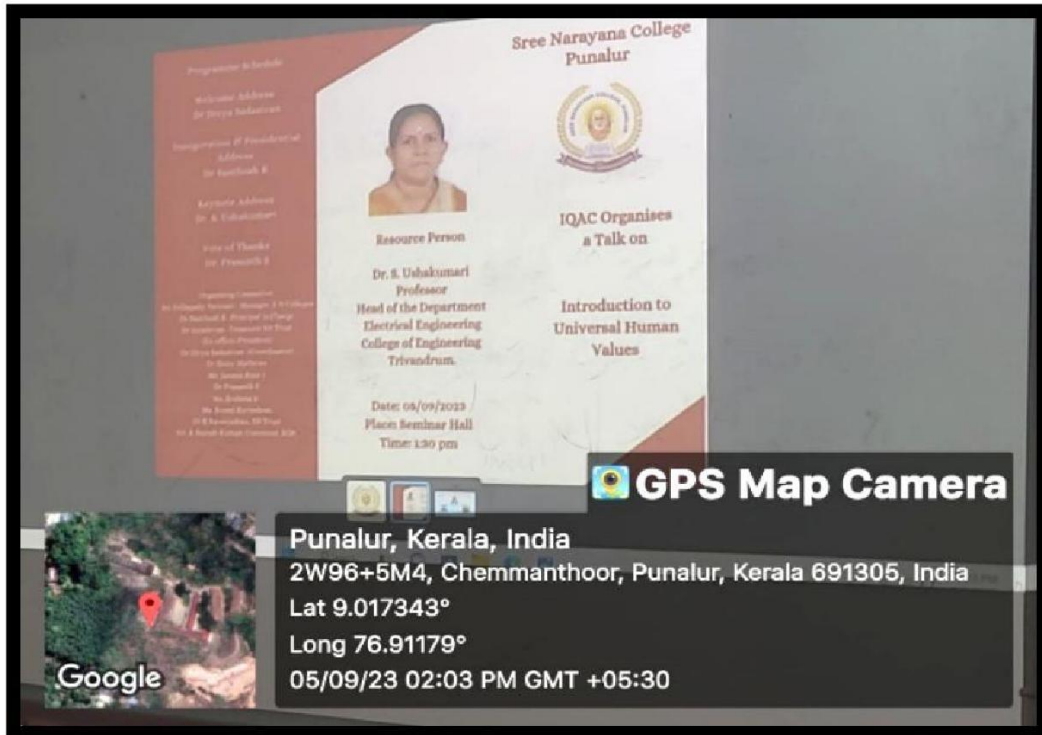
Resource Person

Dr. S. Ushakumari
Professor
Head of the Department
Electrical Engineering
College of Engineering
Trivandrum.

IQAC Organises
a Talk on

Introduction to
Universal Human
Values

Date: 05/09/2023
Place: Seminar Hall
Time: 1:30 pm




3
SREE NARAYANA COLLEGE, PUNALUR

IQAC sponsored talk on Introduction to Universal Human Values held on 05/09/2023 at Seminar Hall
Responsible Person - Dr. S. Ushakumari Professor, Head of the Department Electrical Engineering, College of Engineering, Tiruvannamur

1. Dr. Santhosh R.
2. Dr. Shiny Mathews
3. Dr. Biji M.S.
4. Dr. Vyannan S.P.
5. Resmi A.
6. Dr. Deepa S. Rajan
7. Athira Madhavan
8. Ansha S.S.
9. Reshma R.
10. Chawathy Abhilash
11. Dr. Shikha A.
12. Dr. Deepthi P.R.
13. SYAMA S.N.
14. Dr. Deepika V.S.
15. Jaya L.
16. Dr. Jisha Hedeer
17. Dr. Nithya D.
18. Sheela Jose
19. Deepthi P.S.
20. Dr. Vishnu S.S.
21. Dr. Nivya P.
22. Athul T.B.
23. Dr. Prasanth S.
24. Dr. Bijo S. Anand
25. Raji V.
26. Neethu Pradeep

A program on the "Introduction to Universal Human Values" was organized by the IQAC in the Seminar Hall on 5/09/2023




 **GPS Map Camera**

Punalur, Kerala, India
2W96+5M4, Chemmanthoor, Punalur, Kerala 691305, India
Lat 9.017338°
Long 76.91183°
10/08/23 12:20 PM GMT +05:30

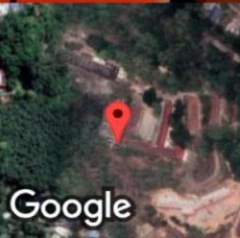


Google



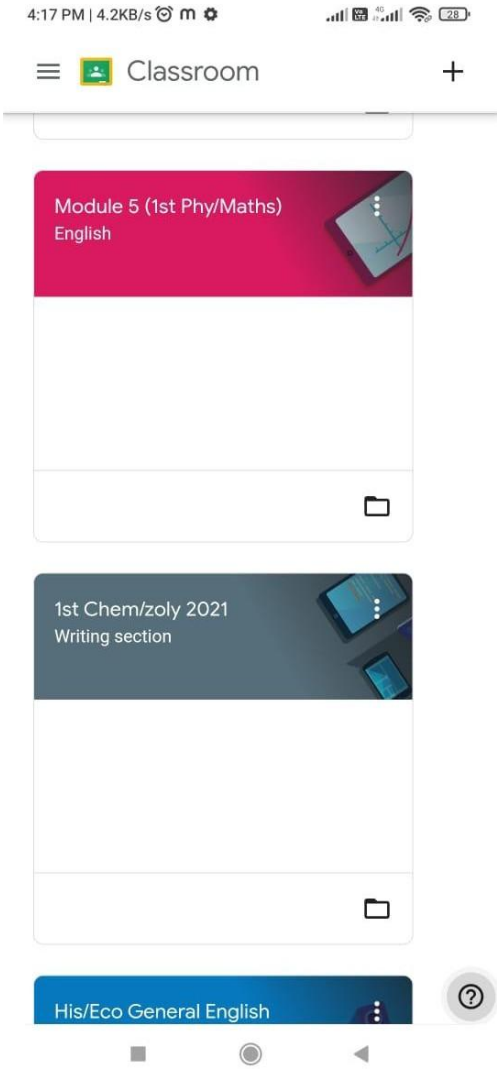
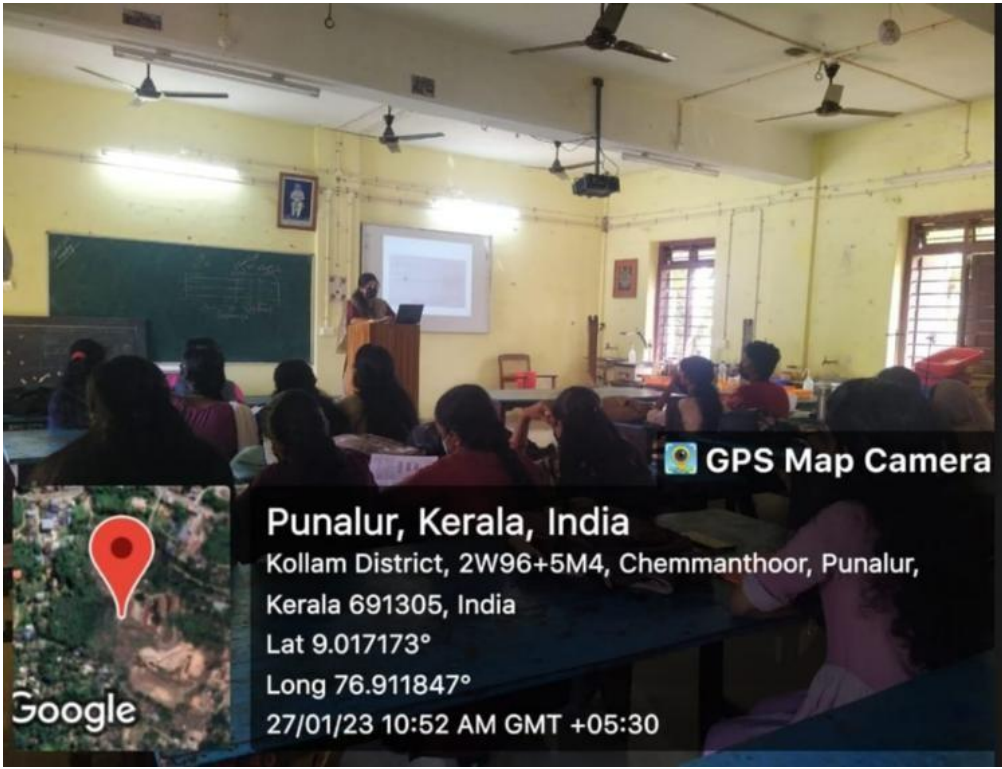
 **GPS Map Camera**

Punalur, Kerala, India
2W96+5M4, Chemmanthoor, Punalur, Kerala 691305, India
Lat 9.017338°
Long 76.91183°
10/08/23 11:42 AM GMT +05:30



Google

ASAP Cell of the college in association with Oracuz Infotech Private Ltd, a workshop on Artificial Intelligence and Data Science organised on 10-08-23



Faculty continue to make use of Google classrooms, Power Point Presentations, Google Meet to make teaching- learning effective.

Tax Invoice (ORIGINAL FOR RECIPIENT)

Systems
 kodungalloor Temple
 Iron Bridge
 32ALXPR3467Q1ZZ
 Kerala, Code 32
 hypertechsystems2021@gmail.com

S N College
 Kerala, Code 32
 Kerala

Invoice No: **HT2796**
 Delivery Note
 Supplier's Ref.
 Buyer's Order No.
 Despatch Document No.
 Despatched through
 Terms of Delivery: **300advance**

Dated: **1-Feb-2023**
 Mode/Terms of Payment
 Upi
 Other Reference(s)
 Gn
 Dated
 Delivery Note Date
 Destination

Description of Goods	HSN/SAC	Quantity	Rate	per	Amount
Presenter Remote for PC R400-Logitech	8473	1.00 NOS	2,203.39	NOS	2,203.39
					CGST 198.31
					SGST 198.31
					Round Off (-)0.01
Total	1.00 NOS				₹ 2,600.00 E & OE

Amount Chargeable (in words): **INR Two Thousand Six Hundred Only**

HSN/SAC	Taxable Value	Central Tax Rate	Central Tax Amount	State Tax Rate	State Tax Amount	Total Tax Amount
8473	2,203.39	9%	198.31	9%	198.31	396.62
Total	2,203.39		198.31		198.31	396.62

Tax Amount (in words): **INR Three Hundred Ninety Six and Sixty Two paise Only**

Company's PAN: **ALXPR3467Q**

Company's Bank Details:
 HDFC A/C 50200063190283
 Bank Name: **HDFC**
 A/C No: **50200063190283**
 Branch & IFS Code: **KOLLAM & HDFC0000203**
 for Hypertech Systems

This is a Computer Generated Invoice

Santhosh
2/2/23
cheque no. 45432

MAXNET SYSTEMS
 Near Archana Theatre Anchal

Date: **10-2-23**

16
 M/s. Principal S.N. College Punalur

Sl No	Particulars	Qty	Amount
1.	USB flash drive 64GB	3x900	2700
Total			2700/-
Advance			
Balance			2700/-

Santhosh
MAXNET SYSTEMS ANCHAL
 10/2/23

Rupees
 Computer, Laptop, CCTV Sales & Service

Santhosh

Repaired computers, projectors , smart boards, wifi connectivity etc to facilitate smooth conduct of digital teaching- learning.

Report on Field Trip to Mysore and Coorg

Department of History
S. N. College Punalur
Third Year B.A. History

Date of Tour: [12-01-2024 to 16-01-2024]

Destination: Mysore and Coorg, Karnataka

Duration: [3 Days]

Faculty Coordinators: [Dr. DEEPTHI P R, Dr. VISHNU S S]

Students: Third Year B.A. History Students

A Field Trip to Mysore and Coorg was organized by the Department of History, S.N. College Punalur, as part of the curriculum for the Third Year B.A. History students. The aim of this tour was to provide students with a firsthand experience of historical sites, cultural landmarks, and natural landscapes, thereby enriching their academic knowledge and fostering an understanding of Karnataka's rich history and heritage

The primary objectives of the Field Trip were:

- To explore the historical significance of Mysore and Coorg.
- To understand the architectural styles, cultural influences, and historical events that shaped these regions.
- To provide an opportunity for practical learning outside the classroom.
- To foster team spirit and cooperation among the student

The Field Trip was carefully planned to include visits to various historical sites, museums, and natural attractions in Mysore and Coorg.

Mysore – Historical Exploration

- **Mysore Palace:** The tour began with a visit to the iconic Mysore Palace, an architectural marvel showcasing Indo-Saracenic design, and a symbol of the Wodeyar dynasty's grandeur.
- **Jaganmohan Palace & Art Gallery:** Students explored the Jaganmohan Palace, which now houses an impressive collection of traditional Indian art.
- **St. Philomena's Church:** A visit to this neo-gothic church offered insights into the colonial influence on the region.
- **Mysore Zoo:** An educational visit to the zoo, which has a rich collection of wildlife and is known for its efforts in conservation

Conclusion

The Field trip to Mysore and Coorg was an enriching experience for the Third Year B.A. History students of S. N. College Punalur. It provided them with invaluable opportunities to explore significant historical sites, understand the cultural dynamics of Karnataka, and engage in practical learning. The tour not only deepened their academic knowledge but also enhanced their appreciation for India's diverse history and heritage. The students returned with a broader perspective, a greater sense of history, and lasting memories of their educational journey.





UNIVERSITY OF KERALA
SREENARAYANA COLLEGE, PUNALUR

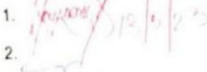
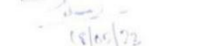


Final Year B.Sc. Zoology (Main)
2020-23

FIELD RECORD/STUDY TOUR REPORT

Certified that this is a bonafide record of the Field study / Study
tour done by the candidate Shri / Smt. UNNI KRISHNAN R
during the academic year 2020-2023 Register number of the candidate
2502c193042 of March / April 2023

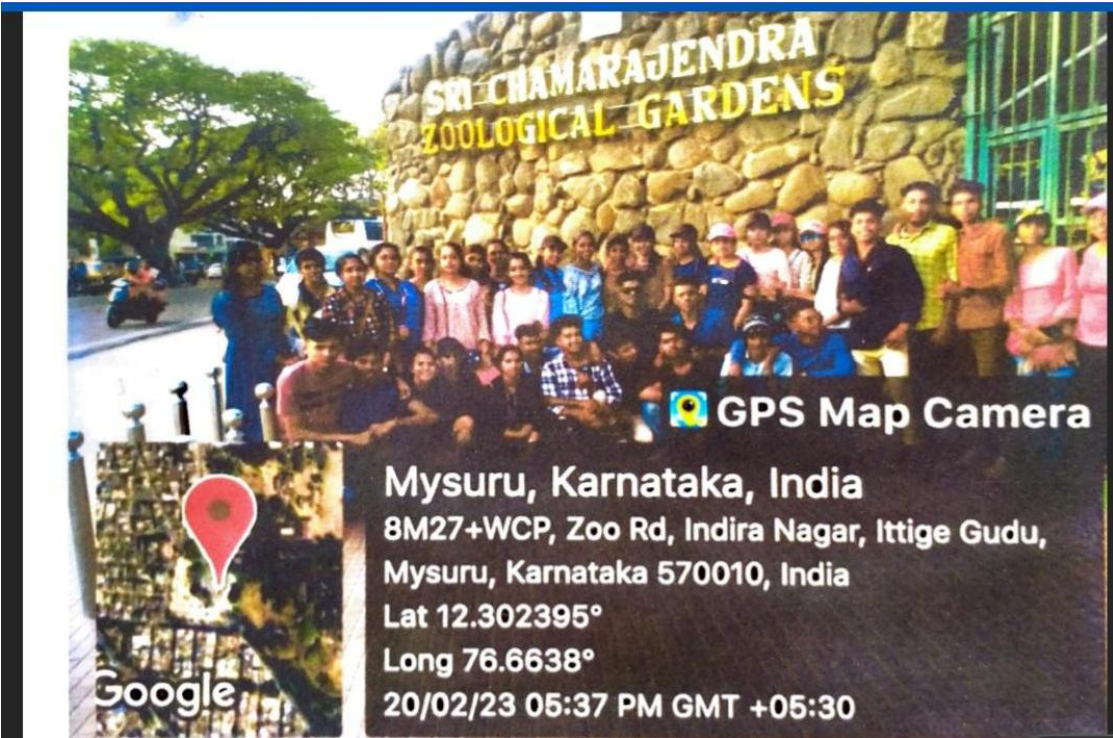
Examiners

1.  / 12/01/23
2.  / 12/01/23

Certified by Teacher-in-Charge

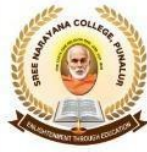
Head of the department


DR. P. J. LALITHA, B.Sc., B.Ed., M.Phil., Ph.D.
HO/ ASSISTANT PROFESSOR
Department of Zoology
Sreenarayana College, Punalur, Kerala-691305



Industrial Visits and Field Visits by various Departments

Follow Us!



SEMINAR

Learning Conference

SESSION ON 14th NOVEMBER AT 2PM

AT SN COLLEGE, PUNALUR
FOR LIFE SCIENCE STUDENTS

Organizing Committee:

Sri.Vellapally Natesan

(Patron,Manager,S.N.Colleges)

Dr.Santhosh.R

(Principal in Charge)

Dr.Divya.S.Rajan

(Co-ordinator,Assistant
Professor,Department of Zoology)

Ms.Resmi.A

(Joint Co-ordinator,Assistant
Professor, Department of Botany)

Dr.Sneha Dineshan

(Assistant Professor on
Contract,Department of Zoology)

Dr.Chandana.J.S.

(Assistant Professor on contract,
Department of Zoology)

SPEAKER

Dr.Tharique Hussain K.A



Venue

SEMINAR HALL

Reinvent your potential

Organized by
Department of Zoology and
Department of Botany
Sree Narayana College,Punalur



Visit our website
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knowledge for success



GPS Map
Camera Lite

2W96+5M4, Chemmanthoor, Punalur, Kerala 691305, India

Latitude
9.01732276°

Longitude
76.91190117°

Local 02:20:58 PM
GMT 08:50:58 AM

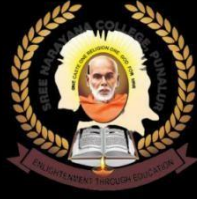
Altitude 75 meters
Tuesday, 14.11.2023

Department of Zoology organised a session on 'Medical Coding' on 12.01.2024



Literary club and Malayalam department jointly organized 'Kerlapiravi' celebration on 6/11/2013

Sree Narayana College Punalur



Debate Club and Former Students Association
Jointly Organises

QUIZ COMPETITION

11 August 2023

(Friday)

Time 10:30 am

Venue Seminar Hall

Quiz Master

Riyas Rehman

Content editor (Guruji)

Ningalkkum Aakam Kodeeswaran- Season 1

For registration contact- 7034672331

Organising Committee

Sri. Vellapally Natesan-

Patron, Manager of SN colleges

Dr. Santhosh. R -Principal

Co-ordinators

Ms. Deepthi P S - Treasurer, FSA

Ms. Narma S Pratheep- Debate Club Convenor

Quiz competition -conducted by Debate Club and FSA on 11.08.2023

SREE NARYANA COLLEGE PUNALUR



HUMAN RIGHT FORUM

HUMAN RIGHTS DAY SEMINAR

- Resource person : Adv . Jisha Murali
Special Court Punalur

ORGANIZING COMMITTEE

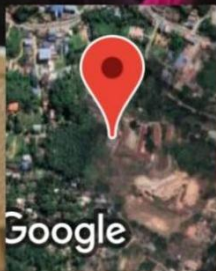
- Sree vellapalli Nadeshan
- Dr Shiny Mathew
- Dr Deepthi PR
- Ms Jasmin Rose J
- Ms Raji V
- Ms Biji M S
- Ms Reshmi Ravindran
- Ms Ganga M R
- Dr Divya Jayan
- Mr Athul T B



Date:-12/12/23
venue:-seminar hall
time:-2pm



GPS Map Camera



Punalur, Kerala, India

2W96+5M4, Chemmanthoor, Punalur, Kerala 691305, India

Lat 9.017351°

Long 76.911754°

12/12/23 02:55 PM GMT +05:30

Google

Humam Rights Forum at SN College Punalur celebrated Human rights day on 12/12/2023



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

DEVIKA S

for successfully completing the course

Development of Sociology in India

with a consolidated score of **53** %

Online Assignments	22.5/25	Proctored Exam	30/75
--------------------	---------	----------------	-------

Total number of candidates certified in this course: 415

P. V. Ramesh
 Prof. B. V. Ramesh Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Jan-Feb 2024
 (4 week course)

Satyaki Roy
 Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS13S348300186

To verify the certificate



No. of credits recommended: 1 or 2

Elite



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

INSIYA BEEGUM

for successfully completing the course

Development of Sociology in India

with a consolidated score of **75** %

Online Assignments	22.5/25	Proctored Exam	52.61/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: 415

P. V. Ramesh
 Prof. B. V. Ramesh Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Jan-Feb 2024
 (4 week course)

Satyaki Roy
 Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS13S348300238

To verify the certificate



No. of credits recommended: 1 or 2

Elite



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

PARVATHY R UDAY

for successfully completing the course

Development of Sociology in India

with a consolidated score of **61** %

Online Assignments	22.5/25	Proctored Exam	38.27/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: 415

P. V. Ramesh
 Prof. B. V. Ramesh Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Jan-Feb 2024
 (4 week course)

Satyaki Roy
 Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS13S348300491

To verify the certificate



No. of credits recommended: 1 or 2



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

ASHMILA V A

for successfully completing the course

Development of Sociology in India

with a consolidated score of **54** %

Online Assignments	22.5/25	Proctored Exam	31.5/75
--------------------	---------	----------------	---------

Total number of candidates certified in this course: 415

P. V. Ramesh
 Prof. B. V. Ramesh Kumar
 Chairman, Centre for Continuing Education
 IIT Kanpur

Jan-Feb 2024
 (4 week course)

Satyaki Roy
 Prof. Satyaki Roy
 NPTEL Coordinator
 IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS13S348300132

To verify the certificate



No. of credits recommended: 1 or 2



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

JEENAMOL S

for successfully completing the course

Development of Sociology in India

with a consolidated score of **56 %**

Online Assignments	22.5/25	Proctored Exam	33.68/75
--------------------	---------	----------------	----------

Total number of candidates certified in this course: 415

Ratish
Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Feb 2024
(4 week course)

Satyaki
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS135448300289

To verify the certificate



No. of credits recommended: 1 or 2



NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to

BUSHRA NS

for successfully completing the course

Development of Sociology in India

with a consolidated score of **62 %**

Online Assignments	19.17/25	Proctored Exam	42.86/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 415

Ratish
Prof. B. V. Ratish Kumar
Chairman, Centre for Continuing Education
IIT Kanpur

Jan-Feb 2024
(4 week course)

Satyaki
Prof. Satyaki Roy
NPTEL Coordinator
IIT Kanpur



Indian Institute of Technology Kanpur



Roll No: NPTEL24HS135448300360

To verify the certificate



No. of credits recommended: 1 or 2

SWAYAM-NPTEL Local Chapter (1) [Protected View] - Excel

PROTECTED VIEW Be careful—files from the Internet can contain viruses. Unless you need to edit, it's safer to stay in Protected View. Enable Editing

S.no	Name	Email Id	Course Id	CourseName	College Roll Number	Mobile Number	Gende	City	Profession	Qualification	Degree
1	Abhinav Gopan R	abhinavgopan33@gmail.com	noc22-md01	Basic course in Biomedical Research	104263	+91 79070 96671	male	Neyyattinkara	student	pre_university	arts, humanities
2	Abhinav Gopan R	abhinavgopan33@gmail.com	noc23-cy36	Introductory Organic Chemistry II	104263	+91 79070 96671	male	Neyyattinkara	student	pre_university	arts, humanities
3	Abhiram A	abhiram4u3@gmail.com	noc23-ae16	Space Flight Mechanics	23019133013	+91 77364 23477	male	Kottarakara	student	bachelor_3yr	science
4	Abhiram A	abhiram4u3@gmail.com	noc23-me10	Applied Thermodynamics	23019133013	+91 77364 23477	male	Kottarakara	student	bachelor_3yr	science
5	Abhiram A	abhiram4u3@gmail.com	noc23-me13	Sustainable Energy Technology	23019133013	+91 77364 23477	male	Kottarakara	student	bachelor_3yr	science
6	Abhiram A	abhiram4u3@gmail.com	noc23-mm37	Nanotechnology, Science And Applications	23019133013	+91 77364 23477	male	Kottarakara	student	bachelor_3yr	science
7	Abhiram A	abhiram4u3@gmail.com	noc23-oe03	Dynamics Of Ocean Structures	23019133013	+91 77364 23477	male	Kottarakara	student	bachelor_3yr	science
8	Abhiram A	abhiram4u3@gmail.com	noc23-ph29	Advanced Quantum Mechanics With Applications	23019133013	+91 77364 23477	male	Kottarakara	student	bachelor_3yr	science
9	Abhiram A	abhiram4u3@gmail.com	noc23-ph46	Scientific Computing Using Python	23019133013	+91 77364 23477	male	Kottarakara	student	bachelor_3yr	science
10	Amrutha S	amruthashan29@gmail.com	noc23-ar24	Introduction To Interaction Design		+91 77369 81438	female	Pathanapuram	student	pre_university	others
11	Amrutha S	amruthashan29@gmail.com	noc23-cs69	Privacy And Security In Online Social Media		+91 77369 81438	female	Pathanapuram	student	pre_university	others
12	Amrutha S	amruthashan29@gmail.com	noc23-cs75	Ethical Hacking		+91 77369 81438	female	Pathanapuram	student	pre_university	others
13	Athul T. B.	athultbacl@gmail.com	noc23-ma54	Laplace Transform		+91 95627 24994	male	Kollam	faculty	masters	
14	Simi Sajju	cme.me83@gmail.com	noc23-cy43	Quantum Mechanics And Molecular Spectroscopy		+91 97440 09325	female	Pathanapuram	faculty	masters	
15	Simi Sajju	cme.me83@gmail.com	noc23-mg12	Yoga And Positive Psychology For Managing Career An		+91 97440 09325	female	Pathanapuram	faculty	masters	
16	VIJAY S KUMAR	fojinov15@gmail.com	noc23-bt70	Biomedical Nanotechnology	36881	+91 75920 45790	male	Kottarakara	student	pre_university	science
17	GOUTHAM KRISHNAN C	gouthamkrishnanca1997@gmail.com	noc23-ge45	Teaching And Learning In General Programs: Talg	22016133027	+91 94002 92631	male	Kottarakara	student	bachelor_3yr	science
18	SUBIN S	subsubin466@gmail.com	noc23-mg71	Operations And Supply Chain Management	15019133057	+91 88486 89233	male	Kottarakara	student	bachelor_3yr	arts, humanities

Sheet1

MOOC Courses successfully enrolled and completed



143



കേരളം കേരल KERALA

CS 314166

MEMORANDUM OF UNDERSTANDING

THIS MEMORANDUM OF UNDERSTANDING (MOU) FOR EDUCATIONAL COLLABORATION is entered into at Chennai on the 11th day of JAN 2024.

BY AND BETWEEN

Sree Narayana College having its registered office at Punalur, Kollam - 691305 and represented by, Dr. Shiny Mathews Principal which expressions shall, unless repugnant the context or meaning thereof, be deemed to mean and include its legal representatives, successors and permitted assigns) of First Part;

AND

VERANDA LEARNING SOLUTIONS LIMITED, a company incorporated under the provisions of the Companies Act 2013, having the registered office at Old No 54, New No 34, Thirumalai Pillai Road, T. Nagar, Chennai, Tamil Nadu 600017 India, represented by Ms. Saradha Govindarajan, Authorized Signatory (hereinafter, "VLS") which expressions shall, unless repugnant to the context or meaning thereof, be deemed to mean and include its legal representatives, successors and permitted assigns) of the Second Part.

For Veranda Learning Solutions Ltd.

G. Saredha
Authorized Signatory



NB. 4392 Rs. 50/- നവരത്നം കോളേജിന്റെ
10.01.2024 നമ്പർ 237 നമ്പർ
ബന്ധിതന

എൻ വെൻഡിംഗ് സോള്യൂഷൻസ് പ്രൈവറ്റ് ലിമിറ്റഡ്



SREE NARAYANA COLLEGE, PUNALUR
Kollam, Kerala – 691305

Managed by the Sree Narayana Trusts, Kollam

Affiliated to the University of Kerala

NAAC Reaccredited with B Grade (CGPA: 2.51)

DST- FIST Supported

17/12281/2022-23

30/01/2023

Renewal of Collaboration Agreement

Between

Department of Physics, T. K. M. College of Arts and Science, Kollam

And

Department of Physics, Sree Narayana College, Punalur.

Collaboration agreement entered on 1/12/2020 between Department of Physics, T. K. M. College of Arts and Science, Kollam. and Department of Physics, Sree Narayana College, Punalur. Collaboration agreement is renewed for further two years from the date of signed by two parties.

Objective of Collaboration

This document outlines a strategic understanding between Department of Physics, T. K. M. College of Arts and Science, Kollam and Department of Physics, Sree Narayana College, Punalur to perform their research work together utilizing the instruments and resources available at both the institutions.

Benefits of Collaboration

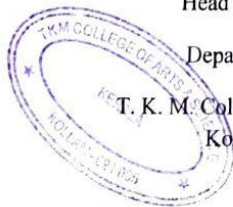
The Ph. D. scholars and M. Sc. students of both the institutions can do their research work along with faculties of both the institutes. Instruments and facilities available at both the institutions can be shared for the research activities. Students and Faculty exchange programmes and seminars on the various research activities can be conducted by both the institutions.

This renewal letter of collaboration is valid for 2 years from the date signed by two parties.

Head of the Department

Department of Physics

T. K. M. College of Arts and Science,
Kollam – 691005.



Head of the Department

Department of Physics

Sree Narayana College,
Punalur- 691305.



Tel: 0475-2222635/ Fax: 0475-2222645 / E-mail : sncpunalur@gmail.com / Website: www.sncollegepunalur.in

Department of Physics collaborated with TKM College Kollam.



Audit Report

We have examined the Receipts and Payments account of **PTA ACCOUNT, SREE NARAYANA COLLEGE PUNALUR, KOLLAM, KERALA - 691305** from 28th May 2023 to 03rd June 2024. This financial statements are the responsibility of the entity's management. Our responsibility is to express an opinion on these Receipts and Payments account based on our audit.

We have obtained all the information and explanations which to the best of our knowledge and belief were necessary for the purpose of the audit. In our opinion proper books of accounts have been kept by the college visited by us so far as appears from our examination of books.

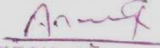
In our opinion and to the best of our information, and according to the information given to us, the said accounts give a true and fair view:-

1. In case of Receipt and Payment account, the inflow and outflow of cash for the above mentioned period.

Place : Kottarakkara

Date : 18/06/2024

For *BSJ & Associates*
Chartered Accountants
ERN-0105608


ANEESH A
Partner (M.No. 264633)



UDIN : 24264633BKAGUP5731

KM/5/94 First floor, Shibu Agencies Building, Lotus Road, Pulamon, Kottarakkara, Kerala, India - 691 531

Off: +91 8129743235, E-mail: kt@bsjassociates.in, Web: www.bsjassociates.in
KOCHI | THRISSUR | KOZHIKODE | THODUPUZHA | BENGALURU | KANNUR | ALUVA | KOTTARAKKARA

PTA ACCOUNT, SREE NARAYANA COLLEGE, PUNALUR
Receipts & Payments Account for the period from 28/05/2023 to 03/06/2024

(Amount in INR)

Receipts		Payments	
To	Amount	By	Amount
Opening Balance		Grass cutting & Campus Cleaning Charges	50,908.00
Cash at Bank		Repairs and Maintenance	2,08,086.00
SIB A/c No : 0663	11,024.40	Printing & Stationary	45,213.00
Federal Bank A/c No : 3411	8,051.00	Computer Maintenance Expenses	65,450.00
" NSS Refund	1,07,500.00	Newspaper Expenses	27,095.00
" Calender Refund	22,930.00	Momento& Recognitions	12,960.00
" Stationary Refund	66,500.00	INFLIBNET	5,900.00
" Savings Bank Interest	10,155.00	Audit Fee	13,000.00
" Election Advance Refund	15,920.00	Salary PTA Staff	7,93,000.00
" Guest Advance Refund	2,60,000.00	Water Bill Expenses	77,063.00
" Donation 2217100.00		Telephone Charges	50,142.00
Less : Refund <u>450000.00</u>	17,67,100.00	Electricity Bills	1,94,455.00
" Hostel Advance Refund	30,000.00	Guest interview expenses	10,500.00
" Advance from Dr. Santhosh	30,000.00	Old block/ Economic department renovation	39,819.00
" Advance Admission file Refund	25,850.00	Fuel Expenses	15,940.00
" Advance from Kavitha K.S	25,410.00	Furniture & Equipment	86,872.00
		Bank charges	1,300.36
		Refreshment Expenses	35,494.00
		Hostel Advance	40,000.00
		NSS Advance	45,000.00
		Advance to Magazine Expenses	10,000.00
		Advance Admission file	25,850.00
		College Union Election Expenses	8,422.00
		Guest Salary Advance	2,45,000.00
		Aid to Students	42,555.00
		Internal Examination Expenses	73,432.00
		Website & Library software	20,460.00
		RUSA	24,800.00
		Lab Equipment Cost	46,420.00



- Seminar ,Workshops, Orientation Expenses	8,850.00
- NAAC Expenses	12,500.00
- Septic Tank Construction Cost	30,500.00
- TA for International Seminar Participation	2,500.00
Closing Balance	
Cash at Bank	
SIB A/c No : 0663	2,903.04
Federal Bank A/c No : 3411	8,051.00

23,80,440.40

23,80,440.40

Place: Kottarakkara
Date: 18/06/2024



For ANEESH Associates
Chartered Accountants
FRN: 011020
[Signature]
ANEESH A
Partner (M No. 264933)

Mobilised fund from Parent Teacher Association and utilised for various developmental activities in college.

അഡിറ്റ് റിപ്പോർട്ട്

പുനലൂർ ശ്രീ നാരായണ കോളേജിലെ പുർവ്വ വിദ്യാർത്ഥി സംഘടനയുടെ 01-04-2023 മുതൽ 31-03-2024 വരെയുള്ള വരവ് ചിലവ് കണക്കുകൾ ഞാൻ പരിശോധിച്ചു. ബന്ധപ്പെട്ട രസീതുകളുടെയും ബാങ്ക് സ്റ്റേറ്റ്മെന്റുകളുടെയും വശച്ചുവക്കളുടെയും ട്രഷററും സെക്രട്ടറിയും നൽകിയ വിശദീകരണത്തിന്റേയും അടിസ്ഥാനത്തിൽ ടി വരവ് ചിലവുകൾ ശരിയും കൃത്യവുമാണെന്ന് സാക്ഷ്യപ്പെടുത്തുന്നു.

Divya
03/05/2024

Dr. Divya. P.S

Punalur

PDC - student

1995 - 97 Batch.

Manu hai

3/5/2024

Manu hai. M.S.

Punalur.

P. D. C - student

1981 - 1983

PUNALUR SREE NARAYANA COLLEGE PDORVA VIDYARDHI SANGHADANA (FSA)
KLM/TC/187/2022

BALANCE SHEET AS ON 31/03/2024

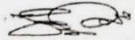
BALANCE SHEET OF ACCOUNTS WHICH HAS BEEN PRESENTED AND ACCEPTED AT THE
EXECUTIVE COMMITTEE MEETING ON 6 APRIL 2024 AND AT THE ANNUAL GENERAL BODY
MEETING ON 18 MAY 2024.

FROM 1 APRIL 2023 TO 31 MARCH 2024.

RECEIPT (TOTAL)
428428.00

PAYMENT (TOTAL)
406968.00

BALANCE
CASH AT BANK 20745
CASH IN HAND 715


PRESIDENT


SECRETARY


TREASURER


AUDITOR

**SREE NARAYANA COLLEGE PUNALUR POORVA VIDHYARTHI
SANGHADANA (KLM/TC/187/2022)**

RECEIPTS AND PAYMENTS

1 APRIL 2023 TO 31 MARCH 2024

Opening balance is 25426 in Acc no. 10280100516364 and 11355 in Acc no. 10280100509963 which is closed on 16/05/2023 and the amount of Rs.11401 is transferred to the Acc no.10280100516364

RECEIPTS	AMOUNT	PAYMENTS	AMOUNT
Contributions for Scholarships(1974-76 Pre Degree batch)	95000	Annual meeting	88770
Economically weaker student support(EWSS)1974-1976 Pre Degree batch	110003	Onam celebration	18200
Sports and felicitation(1974-76 batch)	22000	Protein support to athletes	47988
Souvenir and sports felicitation	15000	Sports facilities	21000
Advertisement (Souvenir)	60000	Jersey for Athletes	15000
Life membership	29000	Civil service training	11000
Membership	7700	Scholarship	95000
Civil Service Coaching	10000	EWSS(Economically weaker students' support)	110000
Protein Support to athletes	10000	Bank charges	10
Support for Athletics(Jersey)	6000	TOTAL	406968
Other contributions	17000	Cash at Bank	20745
Onam Programme	18200	Cash in Hand	715
Closure of account	1401		
Bank interest	1698		
TOTAL	428428		428428

President

Treasurer

Scanned with OKEN Scanner

alumni association support academic, non academic and infrastructural growth



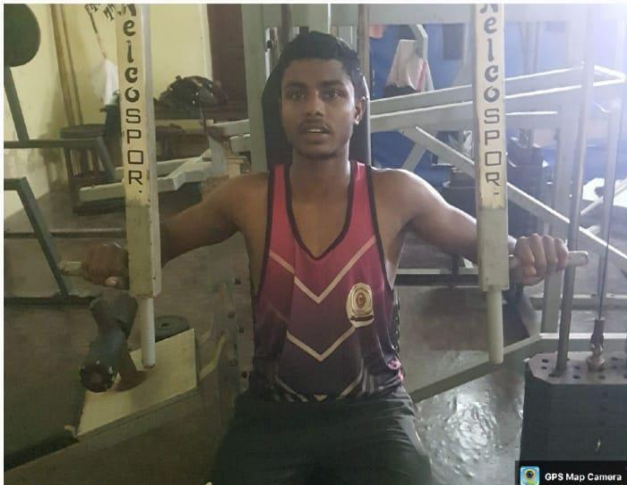
GPS Map Camera

Punalur, Kerala, India
 Punalur, 2W87+W5V, Chemmanthoor, Punalur, Kerala 691305, India
 Lat 9.017025°
 Long 76.91235°
 12/09/22 04:09 PM



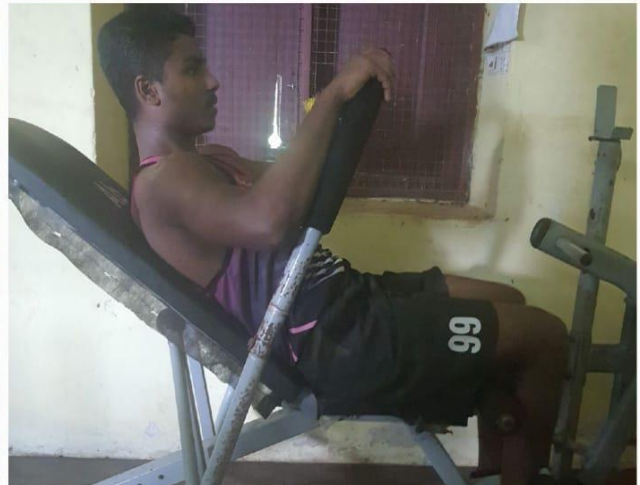
GPS Map Camera

Punalur, Kerala, India
 Punalur, 2W87+W5V, Chemmanthoor, Punalur, Kerala 691305, India
 Lat 9.017021°
 Long 76.91238°
 12/09/22 04:11 PM



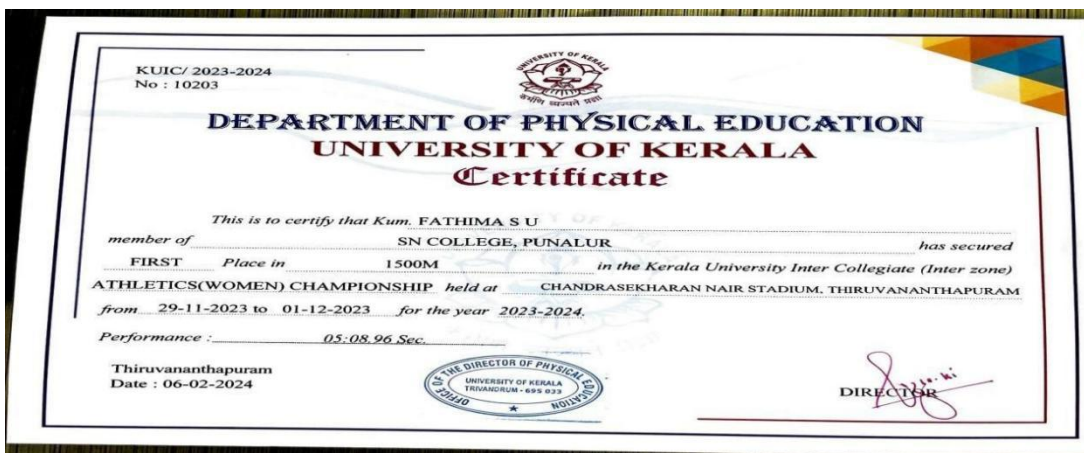
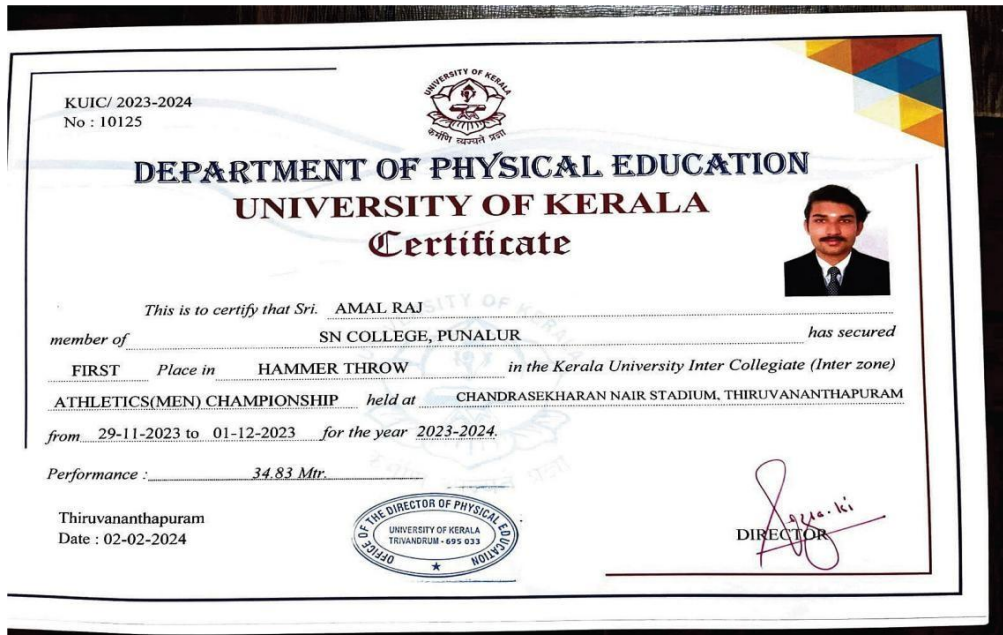
GPS Map Camera

Punalur, Kerala, India
 Punalur, 2W87+W5V, Chemmanthoor, Punalur, Kerala 691305, India
 Lat 9.01702°
 Long 76.912349°
 12/09/22 04:09 PM



GPS Map Camera

Punalur, Kerala, India
 Punalur, 2W87+W5V, Chemmanthoor, Punalur, Kerala 691305, India
 Lat 9.016975°
 Long 76.912244°





Achievements in Sports



Students Participation in the Kerala University Youth festival



Peer Group Teaching - Learning

We're Hiring



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- > GRO
- > Management Trainees

Organized by Career Guidance and Placement Cell in association with IQAC of Sree Narayana College Punalur.

Reach us
July 21, 2023, 11 AM

+91 96338 08094
iqac@snrcollegepunalur.in



96338 08094 | www.snrcollegepunalur.in | 96338 08094

Placement drive

For the students of Sree Narayana College, Punalur

Date: 01-07-2023, Wednesday
Time: 11 AM
Venue: Seminar Hall



NOW HIRING

SARATHY
SARATHY GROUP OF INSTITUTES

SARATHY GROUP OF INSTITUTES is the leading group of institutions in the educational field in Kerala. It has been established by Sarathy Group of Institutions, Kerala. The SARATHY GROUP OF INSTITUTES is a group of institutions that are providing a wide range of educational services. The SARATHY GROUP OF INSTITUTES is a group of institutions that are providing a wide range of educational services. The SARATHY GROUP OF INSTITUTES is a group of institutions that are providing a wide range of educational services.

Organizing Committee

Sri. Vellapally Natesan
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Dr. Shiny Mathews
Principal in Charge

Dr. Divya S. Rajan
Convener

Ms. Jasmin Rose J.
Department of Mathematics

Ms. Ganga M R
Department of Commerce

Ms. Resmi A.
Department of Botany

Dr. Deepika V S.
Department of Economics

Organized by Career Guidance and Placement Cell in association with IQAC of Sree Narayana College Punalur.

Dr. Divya S. Rajan
Convener

Ms. Jasmin Rose J.
Department of Mathematics

Ms. Ganga M R.
Department of Commerce

Ms. Resmi A.
Department of Botany

Dr. Deepika V S.
Department of Economics

CLERK HEAD OFFICE
ADDRESS
SREE NARAYANA COLLEGE PUNALUR
PUNALUR
Kerala
PIN CODE - 695 008
Email: iqac@snrcollegepunalur.in

SREE NARAYANA COLLEGE, PUNALUR

Required TEACHERS!!!

APOLLO INTERNATIONAL SCHOOL, AHMEDABAD

SREE NARAYANA COLLEGE, PUNALUR

IQAC & CAREER GUIDANCE CELL, SREE NARAYANA COLLEGE, PUNALUR

ORGANISING COMMITTEE:

Sri. VELLAPALLY NATESAN
Patron, Manager, SN Colleges

Dr. SHINY MATHEWS
Principal in Charge

Dr. DIVYA S. RAJAN
Convener

Ms. JASMIN ROSE J.
DEPT. OF MATHEMATICS

Ms. GANGA M R
DEPT. OF COMMERCE

Ms. RESMI A.
DEPT. OF BOTANY

Dr. DEEPIKA V S.
DEPT. OF ECONOMICS

Choose the Noble Profession of Teaching by Choice!! Not by Chance...

Meet us at:
Seminar Hall
on
March 19, 2024
Tuesday 10.00 AM

Sree Narayana College Punalur

Veranda | RACE

HOW TO CRACK BANK / SSC /RAILWAY EXAMS IN SIX MONTHS ???

Orientation Workshop

Veranda | RACE Kollam, Karunagappally In Association With IQAC and Career Guidance Cell Sree Narayana College, Punalur

On 11 Jan 2024, 1.30 pm Seminar Hall

Conducting By
Er. AJESH K KOTTUPPILLIL

Organizing Committee

Sri. VELLAPALLY NATESAN
Patron, Manager (SN colleges)

Dr. SHINY MATHEWS
Principal in Charge


Dr. DIVYA S RAJAN
Convener

Ms. JASMIN ROSE J
Department of Mathematics

Ms. GANGA M R
Department of Commerce

Ms. RESMI A
Department of Botany

Dr. DEEPIKA VS
Department of Economics



Veranda | RACE
Karunagappally & Kollam

9895-96-1003, 8848-18-1701

Programs organized by career guidance cell



APOLLO INTERNATIONAL SCHOOL

Vandemataram Road, New S. G. Road, Gota, Ahmedabad-382481

SANTHINI SASIKUTTAN



ACADEMIC

Designation: ASST. TEACHER

Date of Birth : 26.06.2002

Blood Group : A+

Resⁱ Address : SARDAR PATEL NAGAR, E-601, NEW
RANIP, AHMEDABAD

Mobile : 9947534884

I.C.E. No. : 8435658369

Principal

PHONE: 99989 65050

Email: aplintlschool@gmail.com



APOLLO INTERNATIONAL SCHOOL

Vandemataram Road, New S. G. Road, Gota, Ahmedabad-382481

AISWARYA BG



ACADEMIC

Designation: ASST. TEACHER

Date of Birth : 09.02.2002

Blood Group : A+

**Resi. Address : AISWARYA BHAVAN KATHIPPARA
TVM**

Mobile : 9074835690

I.C.E. No. : 9537392561

Principal

PHONE: 99989 65050

Email: aplintlschool@gmail.com



APOLLO INTERNATIONAL SCHOOL

Vandemataram Road, New S. G. Road, Gota, Ahmedabad-382481

ANUSHA V



ACADEMIC

Designation: ASST. TEACHER

Date of Birth : 30.10.2002

Blood Group : O+

**Resi. Address : ANUSHA VILASAM MANIYAR PO
PUNALUR**

Mobile : 8435658369

I.C.E. No. : 9947534884

Principal

PHONE: 99989 65050

Email: aplintlschool@gmail.com



APOLLO INTERNATIONAL SCHOOL

Vandemataram Road, New S. G. Road, Gota, Ahmedabad-382481

ATHIRA S



ACADEMIC

Designation: ASST. TEACHER

Date of Birth : 28.04.1999

Blood Group : O+

Resi. Address : SARDAR PATEL NAGAR, E-601, NEW
RANIP, AHMEDABAD

Mobile : 9188629679

I.C.E. No. : 8435658369

Principal

PHONE: 99989 65050

Email: aplintlschool@gmail.com



APOLLO INTERNATIONAL SCHOOL

Shri V R Shah Campus, Nr.Dharnidhar Temple, Paldi, Ahmedabad-07

MAHITHA M.S.



ACADEMIC

Designation : ASSISTANT TEACHER


Date of Birth : 27.12.2000

Blood Group : B+

Resi. Address : CH BHAGAT WORKING WOMEN
HOSTEL, DHARNIDHAR

Mobile : 8714350027

I.C.E. No.: 8086638071


Principal

PHONE: +917600500517 **Email:** aplintl@schoolvr@gmail.com



APOLLO INTERNATIONAL SCHOOL

Shri V R Shah Campus, Nr. Dharnidhar Temple, Paldi, Ahmedabad - 07

NITHYA BIJU



ACADEMIC

Designation : ASSISTANT TEACHER

Date of Birth : 06.11.2002

Blood Group : O+

Resi. Address : CH BHAGAT WORKING WOMEN
HOSTEL, DHARNIDHAR

Mobile : 9562139128

I.C.E. No.: 9447031255

Principal

PHONE: +917600500517 **Email:** aplintl@schoolvr@gmail.com



APOLLO INTERNATIONAL SCHOOL

Shri V R Shah Campus, Nr. Dharnidhar Temple, Paldi, Ahmedabad-07

UMA MAHESWARY J



ACADEMIC

Designation : ASSISTANT TEACHER

Date of Birth : 18.09.2003

Blood Group :

Resi. Address : CH BHAGAT WORKING WOMEN
HOSTEL, DHARNIDHAR

Mobile : 9539284525

I.C.E. No.: 9645594726

Principal

PHONE: +917600500517 Email: aplintlschoolvr@gmail.com



APOLLO INTERNATIONAL SCHOOL

Vasna Municipal Garden, Nr. Bansidhar, Narayannagar Road, Vasna, Ahmedabad

JEEVA NANDAN



ACADEMIC

Designation : ASST. TEACHER

Date of Birth : 05/12/2001

Blood Group : B+

Res. Address : VASNA

Mobile : 8848677626

I.C.E. No.:-

MKSLL

Principal

PHONE: 8686770088

Email: aplintl@schoolv@gmail.com



APOLLO INTERNATIONAL SCHOOL

Vasna Municipal Garden, Nr. Bansidhar, Narayannagar Road, Vasna, Ahmedabad

GANESH T.R



ACADEMIC

Designation : ASST. TEACHER

Date of Birth : 21.01.2002

Blood Group : O+

Res. Address : CHITRAKUT APP., BARRAGE ROAD
VASNA, A'BAD

Mobile : 8943426325

I.C.E. No.:-

Principal

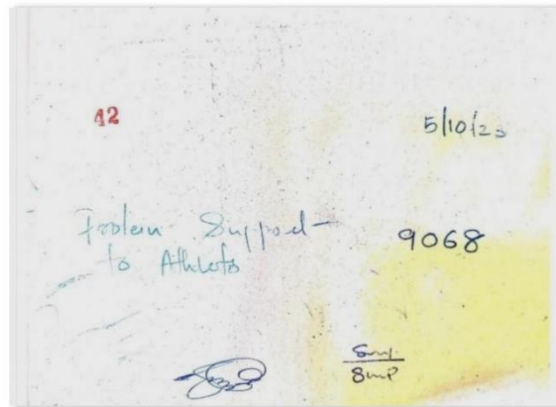
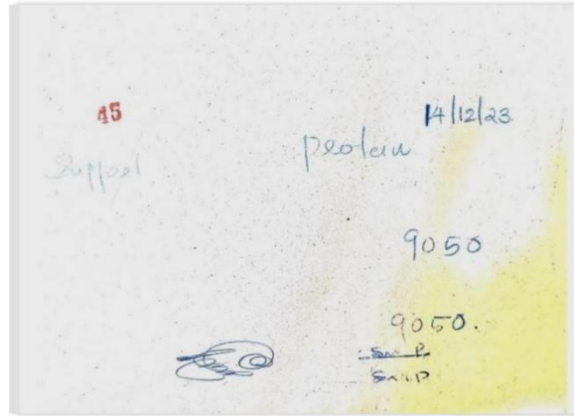
PHONE: 8686770088

Email: aplintlschoolv@gmail.com

Students who got placement



**Collection and Distribution of food packets to needy by students under
“kanivu”**



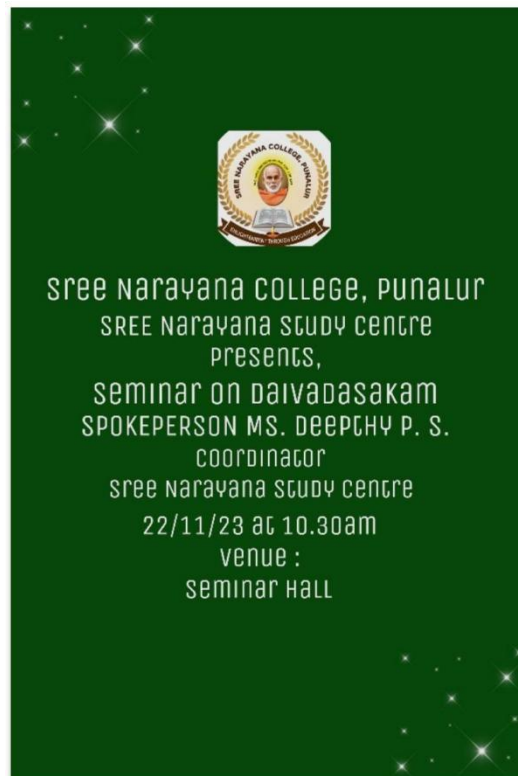
Vouchers from the college canteen towards providing breakfast for sports students (Kanivu)



Handed over a cheque of Rs. 40000/- to Shilpa Raj of II MA History towards financial aid for treatment (kanivu)



Cheque worth Rs. 52000/-has been handed over to Mr. Vijayakumar, security of the college as financial aid for treatment(kanivu)





Brochure of the programme Daivadasakam-(Best Practice Gurudarsanam)



**Seminar on Daivadasakam organised by Sree Narayana Study Centre
(Best Practice Gurudarsanam)**

SREE NARAYANA COLLEGE, PUNALUR

DEPARTMENT OF ENGLISH

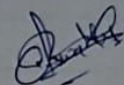
NOTICE

(To be read in first year classes)

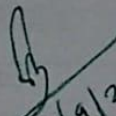
The Department of English of Sree Narayana College, Punalur is conducting a Certificate Course in Communicative English. First year students who are interested to join in the course may register. For more details contact Aswathy Anilkumar, Assistant Professor, Department of English.

Punalur

05/09/23


Coordinator




5/9/23

Principal Incharge
Sree Narayana College
Punalur

SREE NARAYANA COLLEGE, PUNALUR

DEPARTMENT OF COMMERCE

Certificate course in Tally

Mr. Niranjan S (II year B.Com)

**has successfully completed the certificate
course in Tally(30 Hrs.) conducted by the
Department of Commerce during October 2023
to January 2024**



HoD



Principal

About the Course

Tally is one of the most widely used accounting software globally, essential for businesses of all scales. This 30-hour certificate course is designed to equip students and professionals with the skills to efficiently manage accounts, inventory, and payroll, making them industry-ready.

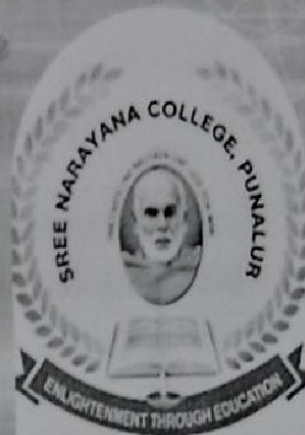


SN COLLEGE PUNALUR
NAAC Reaccredited with B++ Grade

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Website
www.sncpunalur.in

**SREE NARAYANA
COLLEGE, PUNALUR**



DEPARTMENT OF COMMERCE

CERTIFICATE COURSE IN
TALLY

SREE NARAYANA COLLEGE, PUNALUR

Department of English

NOTICE

17 September 2023

To be read in all first-year classes

Students who have enrolled for the Certificate Course in Communicative English is informed that the classes will be conducted on Tuesdays and Thursdays from 04:00 p.m. to 05:30 p.m. Inauguration of the course is to be held at 4:00 pm on 12/09/23 in the indoor auditorium .



A handwritten signature in blue ink, appearing to be "S. Narayana" or similar.

Principal Incharge
Sree Narayana College
Punalur

DEPARTMENT OF MATHEMATICS


S N COLLEGE, PUNALUR

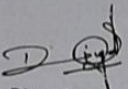
NOTICE

(To be circulated in P.G. classes)

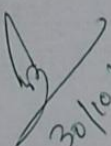
The Department of Mathematics, S N College, Punalur is conducting a certificate course in Microsoft Excel. The post graduate students who are interested to join the course may register. For more details contact the course coordinator, Department of Mathematics.

Punalur,
30.10.2023


Coordinator


Dr. Divya Sadasivan
Associate Professor & HoD
Department of Mathematics
Sree Narayana College
Punalur




30/10/2023

Principal Incharge
Sree Narayana College
Punalur



SREE NARAYANA COLLEGE, PUNALUR

Affiliated to University of Kerala

Re-accredited by NAAC with "B" Grade

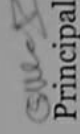
CERTIFICATE COURSE IN MICROSOFT EXCEL

CERTIFICATE OF PARTICIPATION

This is to certify that AG VIJITHRA, has completed the Certificate Course in Microsoft Excel offered by the Department of Mathematics, Sree Narayana College, Punalur and has secured A grade.

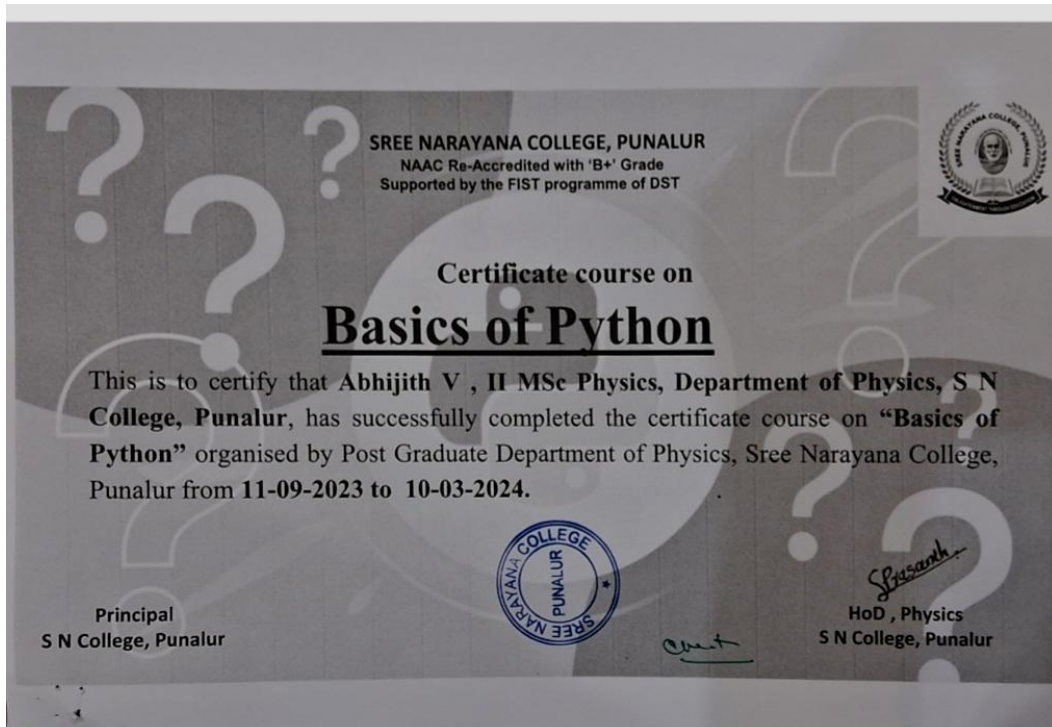

Coordinator




Principal

Date of Issue: 27-03-2024

Principal Incharge
Sree Narayana College
Punalur.



certificate courses in different subjects.



Mobilised the fund received from Environment and Climate change of the Government by celebrating World Environment Day on June

ON GRID SOLAR SYSTEM

This photovoltaic system consist of solar panel, inverter and the equipment to provide connection to the grid . The utility system act as a battery space . If excess energy is produced by the solar panel than using , the excess energy is sent to grids power company , allowing to build credit that can cash out with at the end of the year, in a process called net metering . Grid tied is beneficial because there is no need of expensive battery back up system to store any excess energy.



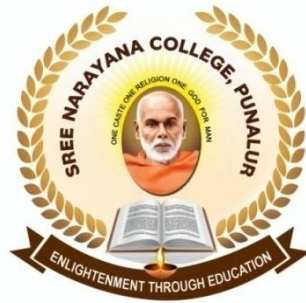
CONCLUSION

Punalur experiences intense heat because of the hot wind that comes from Tamilnadu. The wind that passes through Aryankavu is what causes Punalur's temperatures to skyrocket. The wind gathers up speed when it hits Punalur and is frequently referred to as the eastern wind because the Western Ghats' shielding hills are lower in height. The main purpose of this paper was to design ON grid solar power system with the help of solar irradiance data of Punalur.



To enhance efficiency and ascertains the proper functioning of the solar panel an app (SOLARMAN Smart) is being used monitor the functionaling of the solar panal.

ENERGY AUDIT REPORT 2023 - 2024



SREE NARAYANA COLLEGE

CHEMMANTHOOR, PUNALUR P.O,

KOLLAM

Energy Audit Report

An assessment of energy consumption, energy sources used, energy management, lighting devices used and other appliances used by the campus community is an important aspect of sustainability of the community. Hence this is a relevant aspect of the assessment. The audit team assessed the number of electrical appliances and their respective uses in terms of consumption of energy per month in KWh. This indicates the energy management of the campus. Based on the assessment we made suggestions and recommendations.

An energy audit is an examination, survey, and analysis of energy flows for the purpose of locating areas where energy can be saved in a building, process, or system without having a negative impact on the output.

Need for energy audit

An energy audit is a study of plant or other structure to ascertain how and where energy is used as well as to find ways to save energy. The energy conservation methods assist in reducing the cost of any construction and saving energy. Our ecosystem loses out from each unit of energy usage due to pollution, the depletion of conventional energy sources, and increased need for generating capacity. Saving a unit of energy benefits the environment and energy resources in addition to saving money.

Electricity consumption of the college

1. Electricity charges per month – ~ Rs. 30000/ month
2. Number of Gas cylinder – 4 cylinders
3. Cost of gas cylinder – Rs. 6800/month
4. Number of Generators – 1
5. Cost of Generator Fuel – Rs.5000 /month

Checklist of Electrical/Electronic Equipments in the Institution

SL.No	Devices	No.
1.	CFL bulbs	3
2.	LED bulbs	67
3.	Tube Lights	251
4.	Incandescent Bulbs	3
5.	Fans	119
6.	Computers	44
7.	Refrigerators	4
8.	Water Pump	3
9.	Photostat Machine	3
10.	Printers	17
11.	Projector	5
12.	Inverters	2
13.	Generator	1
14.	Scanner	2
15.	Water Purifier	1
16.	Router	2
17.	CCTV	1
18.	Induction Stove	1
19.	Amplifier	1
20.	Induction Cooker	1
21.	Laptop	1

Checklist of Laboratory Equipments in the Institution

SL.No	Instruments	No.
1.	Laser set up	1
2.	e/k	1
3.	J.J Thomson	2
4.	Hall Effect	1
5.	G M Counter	1
6.	Photo Electric Effect	1
7.	Steffans Cons	1
8.	Spectrometer for Absorption Spectrum	2
9.	Ultrasonic Dufractometer	2
10.	Quinck's Method Apparatus	1
11.	UV Vis Spectrophotometer	1
12.	Laboratory Oven	1
13.	Industrial Oven	1
14.	Spectrophotometer	1
15.	Colorimeter	1
16.	Digital pH Meter	1
17.	Magnus Microscope	2
18.	Microtome	1
19.	Autoclave	1
20.	Incubator	1
21.	Muffle Furnace	1
22.	Hot Air Oven	1
23.	High Speed Centrifuge	1
24.	Electric Weigh Balance	1
23.	UV Visible Spectrophotometer	1
24.	Centrifuge	1
25.	Digital Polari meter	1
26.	Digital MP Apparatus	1
27.	Digital Colorimeter	1
28.	Digital Water bath	1
29.	Potentiometer	1
30.	Conductometer	1
31.	pH meter	1
32.	Double Distillation Unit	1
33.	Electronic Balance	1
34.	FTIR Spectrophotometer	1
35.	Hot Air Oven	1
36.	Heating Mantle	1
37.	Hot Plate	1
38.	Magnetic Stirrer	1
39.	Rotary Evaporator	1
40.	Ultrasonic eleoner	1
41.	CHN Instrument	1

Energy Usage Audit Sheet

1. Energy usage of CFL bulbs

Department/Area	Number of CFL bulbs	Power Consumed (watts)	Power in (Kw)	Working Time (Hours per Day)	Energy Usage per month (kWh)
Principal Office	2	15	0.015	5.28	7.2
Room No. 56	1	15	0.015	47.52	2.7
Total Energy Usage per Month (kWh)					9.9

2. Energy usage of LED bulbs

Department/Area	Number of LED bulbs	Power Consumed (watts)	Power in (Kw)	Working Time (Hours per Day)	Energy Usage per month (kWh)
Principal Office	6	10	0.01	8	14.4
Office Room	7	10	0.01	8	16.8
Staff Room 1	7	10	0.01	8	16.8
Staff Room 2	4	10	0.01	8	9.6
Room No. 52	8	8	0.008	6	11.52
Room No. 53	8	8	0.008	6	11.52
Room No. 54	8	8	0.008	6	11.52
Room No. 55	8	8	0.008	6	11.52
Room No. 14	1	8	0.008	6	1.44
Room No. 13	2	8	0.008	6	2.88
Room No. 12	2	8	0.008	6	2.88
Hall	6	10	0.01	8	14.4
Total Energy Usage per Month (kWh)					125.28

3. Energy usage of Fans

Department/Area	Number of Fans	Power Consumed (watts)	Power in (Kw)	Working Time (Hours per Day)	Energy Usage per month (kWh)
Principal Office	4	40	0.04	8	38.4
Office Room	6	40	0.04	8	57.6
Staff Room 1	2	40	0.04	8	19.2
Staff Room 2	2	40	0.04	8	19.2
Staff Room 3	4	40	0.04	8	38.4
Staff Room 4 (Zoology)	4	40	0.04	8	38.4
Staff Room 5 (Chemistry)	7	40	0.04	8	67.2
Staff Room 6 (Physics)	3	40	0.04	8	28.8

Auditorium	11	40	0.04	5	66
NCC Room	1	40	0.04	4	3.52
IQAC Room	2	40	0.04	6	10.56
Seminar Hall	6	40	0.04	5	36
Hall	1	40	0.04	4	4.8
Examination Section	4	40	0.04	8	38.4
1 DC BSc Physics	3	40	0.04	6	21.6
2 DC BSc Physics	4	40	0.04	6	28.8
3 DC BSc Physics	4	40	0.04	6	28.8
1 st MSc Physics	2	40	0.04	6	14.4
2 nd MSc Physics	2	40	0.04	6	14.4
BSc Physics Lab	7	40	0.04	4	35.2
MSc Physics Lab Electronics	4	40	0.04	4	14.08
MSc Physics Lab General	3	40	0.04	3	7.92
Computer Lab	2	40	0.04	6	14.4
Computer Lab (Attached with IQAC Room)	2	40	0.04	5	12
Zoology Lab	6	40	0.04	5	36
Instrumentation Lab Zoology	3	40	0.04	4	10.56
MSc Chemistry Lab	9	40	0.04	4	42.24
3 DC BSc Chemistry	6	40	0.04	6	43.2
Store Room Chemistry	1	40	0.04	4	3.52
BSc Chemistry Lab	15	40	0.04	4	52.8
Store Room Chemistry Lab	4	40	0.04	4	14.08
1 st MSc Chemistry	2	40	0.04	6	14.4
2 nd MSc Chemistry	2	40	0.04	6	14.4
Chemistry Library	2	40	0.04	2	3.52
Room No. 12	3	40	0.04	6	21.6
Room No. 13	3	40	0.04	6	21.6
Room No. 14	3	40	0.04	6	21.6
Room No. 15	3	40	0.04	6	21.6
Room No. 16	3	40	0.04	6	21.6
Room No. 17	3	40	0.04	6	21.6
Room No. 18	3	40	0.04	6	21.6
Room No. 20	3	40	0.04	6	21.6
Room No. 33	2	40	0.04	6	14.4
Room No. 34	2	40	0.04	6	14.4
Room No. 43	2	40	0.04	6	14.4
Room No. 44	2	40	0.04	6	14.4
Room No. 52	3	40	0.04	6	14.4
Room No. 53	3	40	0.04	6	14.4
Room No. 54	3	40	0.04	6	14.4
Room No. 55	3	40	0.04	6	21.6
Room No. 56	2	40	0.04	6	14.4

Room No. 57	2	40	0.04	6	14.4
Room No. 58	2	40	0.04	6	14.4
Room No. 59	2	40	0.04	6	14.4
Library and Reading Room	6	40	0.04	8	42.24
Reference Room	2	40	0.04	8	14.08
Stack Room	4	40	0.04	8	38.4
Canteen	4	40	0.04	8	38.4
Hostel	32	40	0.04	10	384
Regional Development Committee Room	2	40	0.04	6	14.4
Total Energy Usage per Month (kWh)					1777.12

4. Energy usage of Tube lights (CFL)

Department/Area	Number of Tube lights	Power Consumed (watts)	Power in (Kw)	Working Time (Hours per Day)	Energy Usage per month (kWh)
Principal Office	3	40	0.04	8	28.8
Office Room	8	40	0.04	8	76.8
Staff Room 1	3	40	0.04	8	28.8
Staff Room 2	1	40	0.04	8	9.6
Staff Room 3	2	40	0.04	8	19.2
Auditorium	7	40	0.04	3	25.2
Seminar Hall	5	40	0.04	3	18
NCC Room	1	40	0.04	5	6
IQAC Room	3	40	0.04	4	14.4
Examination Section	3	40	0.04	4	14.4
2 DC BSc Physics	1	40	0.04	6	7.2
1 st MSc Physics	1	40	0.04	6	7.2
2 nd MSc Physics	1	40	0.04	6	7.2
BSc Physics Lab	7	40	0.04	4	33.6
MSc Physics Lab Electronics	4	40	0.04	4	19.2
MSc Physics Lab General	3	40	0.04	4	14.08
Computer Lab	4	40	0.04	5	24
Computer Lab (Attached with IQAC Room)	4	40	0.04	5	24
2 nd MSc Chemistry	1	40	0.04	4	4.8
Room No. 12	1	40	0.04	6	7.2
Room No. 13	1	40	0.04	6	7.2
Room No. 14	2	40	0.04	6	10.56
Room No. 15	3	40	0.04	6	21.6
Room No. 16	3	40	0.04	6	21.6

Room No. 17	2	40	0.04	6	14.4
Room No. 18	2	40	0.04	6	14.4
Room No. 33	2	40	0.04	6	14.4
Room No. 34	2	40	0.04	6	14.4
Room No. 52	2	40	0.04	6	14.4
Room No. 53	2	40	0.04	6	14.4
Room No. 54	2	40	0.04	6	14.4
Room No. 55	2	40	0.04	6	14.4
Library and Reading Room	6	40	0.04	6	43.2
Reference Room	4	40	0.04	6	28.8
Stack Room	7	40	0.04	5	42
Ladies Amenity Centre	4	40	0.04	3	14.4
Regional Development Committee Room	2	40	0.04	5	8.8
Total Energy Usage per Month (kWh)					703.04

5. Energy usage of Tube lights (LED)

Department/Area	Number of Tube lights	Power Consumed (watts)	Power in (Kw)	Working Time (Hours per Day)	Energy Usage per month (kWh)
Principal Office	3	9	0.09	8	6.48
1 DC BSc Physics	3	9	0.09	6	4.86
2 DC BSc Physics	2	9	0.09	6	3.24
3 DC BSc Physics	3	9	0.09	6	6.48
1 st MSc Physics	2	9	0.09	6	3.24
2 nd MSc Physics	3	9	0.09	6	6.48
Corridor	5	9	0.09	5	6.75
Staff Room 4 (Zoology)	6	9	0.09	8	12.96
Staff Room 5 (Chemistry)	9	9	0.09	8	19.44
Staff Room 6 (Physics)	3	9	0.09	8	6.48
BSc Physics Lab	6	9	0.09	4	6.48
MSc Physics Lab Electronics	2	9	0.09	4	2.16
Zoology Lab	10	9	0.09	5	13.5
Instrumentation Lab Zoology	5	9	0.09	4	6.75
3 DC BSc Chemistry	6	9	0.09	6	4.86
1 st MSc Chemistry	2	9	0.09	6	3.24
2 nd MSc Chemistry	1	9	0.09	6	1.62

BSc Chemistry Lab	20	9	0.09	4	21.6
MSc Chemistry Lab	14	9	0.09	4	15.12
Store Room Chemistry	1	9	0.09	4	1.08
Store Room Chemistry Lab	5	9	0.09	4	5.4
Chemistry Library	2	9	0.09	4	2.16
Ground Floor	4	9	0.09	8	63.36
First Floor	7	9	0.09	8	110.88
Room No. 33	1	9	0.09	6	1.62
Room No. 34	1	9	0.09	6	1.62
Room No. 35	2	9	0.09	6	3.24
Room No. 43	2	9	0.09	6	3.24
Room No. 44	2	9	0.09	6	3.24
Room No. 57	1	9	0.09	6	1.62
Room No. 59	2	9	0.09	6	3.24
Total Energy Usage per Month (kWh)					352.44

6. Energy usage of Computer/Laptop

Department/Area	Number of Computer/Laptop	Power Consumed (watts)	Power in (Kw)	Working Time (Hours per Day)	Energy Usage per month (kWh)
Principal Office	3	100	0.10	8	72
Office Room	5	100	0.10	8	120
Staff Room 1	1	100	0.10	8	24
Staff Room 2	1	100	0.10	8	24
Staff Room 3	3	100	0.10	8	72
Staff Room 4 (Zoology)	2	100	0.10	8	48
Staff Room 5 (Chemistry)	1	100	0.10	8	24
Staff Room 6 (Physics)	1	100	0.10	8	24
BSc Physics Lab	5	100	0.10	6	120
Examination Section	1	100	0.10	6	24
NCC Room	1	100	0.10	8	24
Computer Lab	15	100	0.10	8	360
Computer Lab (Attached with IQAC Room)	12	100	0.10	6	216
Room No.56	1	50	0.05	6	9
Total Energy Usage per Month (kWh)					1161

7. Electrical Equipments and their Energy Consumption

Department/Area	Name of the appliance/ Equipment	Number of appliance/ equipment	Power consumed (watts)	Power in (kW)	Working Time (Hours per Day)	Energy Usage per month (kWh)
Principal Office	Photostat	1	1000	1	4	90
	Table Fan	1	52.7	0.0527	6	9.486
	UPS	3	900	0.9	8	648
	Amplifier	1	500	0.5	4	60
	Television	2	150	0.15	2	13.2
	Printer	1	40	0.04	4	3.52
Office Room	Photostat	1	1000	1	4	15
	Printer	5	40	0.04	6	26.4
	Inverter	1	3000	3	6	396
	Induction Cooker	1	1600	1.6	4	140.8
Staff Room 1	Speaker	1	1000	1	1	15
	Printer	1	40	0.04	4	3.52
Staff Room 4 (Zoology)	UPS	1	900	0.9	8	158.4
	Printer	2	40	0.04	4	7.04
	Exhaust Fans	2	60	0.06	4	10.56
Staff Room 5 (Chemistry)	UPS	2	900	0.09	8	31.68
	Scanner with Printer	1	25	0.025	4	2.2
Staff Room 6 (Physics)	UPS	1	900	0.9	8	158.4
	Projector	1	1200	1.2	4	105.6
	Printer	1	40	0.04	4	3.52
	UPS	1	900	0.09	8	15.84
	Table Fan	1	55	0.055	6	7.26
	Tower Fan	1	110	0.11	6	14.52
	UPS	3	900	0.09	8	47.52
BSc Physics Lab	Printer	1	40	0.04	4	3.52
	Speaker	1	1000	1	1	15
	Inverter	1	3000	3	6	396
	Filament Bulb	1	60	0.06	3	3.96
	Tower Fan	1	110	0.11	6	14.52
	Potentiometer	3	40	0.04	3	7.92
	Heating Mantle	2	450	0.45	3	59.4

MSc Physics Lab Electronics	Printer	1	40	0.04	3	2.64	
	Inverter	1	3000	3	6	396	
	Filament Bulb	1	60	0.06	3	3.96	
	Electronic Balance	1	5	0.005	3	0.33	
	Centrifuge	1	180	0.18	3	11.88	
	Heating Mantle	5	450	0.45	3	148.5	
	Magnetic Stirrer	2	600	0.6	3	79.2	
	Induction Cooker	1	1600	1.6	3	105.6	
	Filament Bulb	1	60	0.06	3	3.96	
	Potentiometer	2	40	0.04	3	5.28	
	Spectrometer (Bulb)	4	240	0.24	3	63.36	
	SVL Transformer	2	100	0.1	3	13.2	
	Zener Diode Experiment	2	10	0.01	3	1.32	
MSc Physics Lab General	Laser set up	1	450	0.45	3	29.7	
	e/k	1	1000	1	3	45	
	J J Thomson	2	1	0.001	3	0.132	
	Hall Effect	1	500	0.5	3	33	
	GM Counter	1	100	0.1	3	6.6	
	Photo electric Effect	1	12	0.012	3	0.792	
	Steffans cons	1	60	0.06	3	3.96	
	Spectrometer for absorption spectrum	2	12	0.012	3	1.584	
	Ultrasonic dufractometer	2	50	0.05	3	6.6	
	Quinck's method Apparatus	1	200	0.2	3	13.2	
	UV VIS Spectrophotometer	1	250	0.25	3	16.5	
	Instrumentat ion Lab (Zoology)	Air Oven	2	2200	2.2	3	290.4
		Centrifuge	1	180	0.18	3	11.88
Spectrophotometer		1	30	0.03	3	1.98	
Colorimeter		1	0.6	0.0006	3	0.0396	
Digital pH meter		1	5	0.005	3	0.33	
Magnus Microscope		2	100	0.1	3	13.2	
Microtome		1	30	0.03	3	1.98	
Autoclave		1	1500	1.5	3	99	
Incubator		1	200	0.2	3	13.2	
Muffle furnace		1	3000	3	3	198	
Electric Weigh Balance		1	5	0.005	3	0.33	
UV visible Spectrophotometer		1	150	0.15	3	9.9	
High Speed Centrifuge		1	500	0.5	3	33	
Digital Polarimeter		1	1	0.001	3	0.066	
Digital MP Apparatus		1	100	0.1	3	6.6	
Digital Colorimeter	1	12	0.012	3	0.792		

	Digital Waterbath	1	1480	1.48	3	97.68
MSc Chemistry Lab	Potentiometer	2	40	0.04	3	5.28
	Conductivity Meter	4	180	0.18	3	47.52
	Air Oven	3	2200	2.2	3	435.6
	Inverter	7	3000	3	3	1386
	Electric Stove	20	1800	1.8	3	2376
	Refrigerator	2	780	0.780	24	1123.2
	pH Meter	1	5	0.005	3	0.33
	Double Distillation Unit	1	5.5	0.0055	3	0.363
	Electronic Balance	1	5	0.005	3	0.33
	FTIR Spectrophotometer	1	24	0.024	3	1.584
	Heating Mantle	1	450	0.450	3	29.7
	Hot Plate	1	750	0.750	3	49.5
	Magnetic Stirrer	1	8.5	0.0085	3	0.561
	Rotary Evaporator	1	1060	1.06	3	69.96
	Ultrasonic cleaner	1	100	0.1	3	6.6
	CHN Instrument	1	250	0.25	3	16.5
Store Room Chemistry	UPS	1	900	0.9	5	99
Room No. 20	Printer	2	40	0.04	5	8.8
	Music System	2	1000	1	5	220
	UPS	1	900	0.9	5	99
Room No. 11	Scanner with Printer	1	50	0.05	4	4.4
Room No. 56	Printer	1	40	0.04	4	3.52
	Speaker	1	100	0.1	5	15
	Filament Bulb	1	60	0.06	2	2.64
	Electric Bell	1	0.5	0.0005	6	0.066
Examination Section	Printer	1	40	0.04	5	4.4
Hostel	Refrigerator	1	780	0.780	24	561.6
	Television	1	220	0.220	4	19.36
	Mixer Grinder	1	750	0.750	4	45
	Incinerator	1	1200	1.2	6	108
Canteen	Refrigerator	1	780	0.780	24	561.6
	Water Purifier	1	60	0.06	24	43.2
Ladies Amenity Centre	Incinerator	1	1200	1.2	6	216
Auditorium	Amplifier	1	500	0.5	5	75
First Floor	Water Purifier	1	60	0.06	8	10.56
Corridor	Speaker	2	100	0.1	5	15
	Electric Bell	1	0.5	0.0005	6	0.066
Total Energy Usage per Month (kWh)						11915.7

The Total Energy Utilization of the college for different purposes is approximately **16044.48**

kWh/month.

Suggestions

- It's important to maintain solar panels properly and combine them with other renewable energy sources.
- Conduct additional staff and student awareness campaigns about energy conservation.
- Switch to LED monitors in favour of computers and TVs.
- More energy efficient fans need to be installed.
- Each year, observe a power-saving day.
- Systems for automatic power switches off could be introduced.
- To reduce power loss due to eddy current, electricity in campus buildings should be disconnected from the main building supply after occupancy.
- More frequent use of generators should be avoided.

Immediate energy savings, can be achieved from the effective usage of lights, Fans. The following activities, having no/low investment, can be adopted in these areas. ● Replace the existing Fluorescent Tube lights and with LED lights, (see the Executive Summary). ● Replace the existing CFL with LED bulbs, (see the Executive Summary). ● Replace old/ inefficient fans with BEE star rated (BLDC) ceiling fans (see the Executive Summary). ● Switch OFF appliances, when not in use. ● Utilize BEE 5 star labeled appliances, as far as possible. ● Maintain standard Electrical wiring, to avoid energy loss. ● Avoid very old and obsolete appliances and replace with energy efficient and environment friendly appliances. ● Keep the computers in sleep/shut down mode, when not in use.(i.e, during lunch time) ● Regular cleaning of glass panes of Windows, light fixtures, Fans and other appliances, to get maximum output. ● Utilize the natural lights and wind, as far as possible, to reduce energy consumption. ● An Energy Conservation cell/club can be constituted and arrange EnergyConservation awareness programs. Create awareness among the students & employees, about the importance and practice of Energy Conservation and monitor, regularly, the energy conservation activities. ● Investigate possibilities of using renewable energy solutions and take steps to implement the same. ● Promote use of Electric Vehicles by employees and support e mobility through installation of EV charging stations.

SREE NARAYANA COLLEGE PUNALUR

GREEN AUDIT REPORT 2023-2024

In an age marked by frequent environmental crises, the protection and preservation of ecosystems has become essential. Sustainable development is vital for the progress of any society. During the academic year 2023-2024, a green audit was conducted at Sree Narayana College, Punalur, to assess the institution's impact on air, water, and biodiversity.

This audit evaluated the college's biodiversity, water usage, waste management practices, and carbon footprint to pinpoint areas requiring improvement and to establish priorities for future projects. An internal audit team, comprising two faculty members and students, was formed for this purpose. We are pleased to present this green audit report to the management of Sree Narayana College.

Faculties-in-charge of green audit.

1. Resmi A.

Assistant Professor and HOD
Department of Botany
SN College Punalur



2. Dr. Divya S. Rajan

Assistant Professor and HOD
Department of Zoology
SN College Punalur



**GREEN AUDIT TEAM OF THE INSTITUTION FOR ACADEMIC
YEAR 2023-2024**

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1. METHODOLOGY

The audit was conducted using a combination of methods, including observation, surveys, and discussions with relevant personnel. Key areas specific to the college were assessed through a structured questionnaire, response collection, physical site inspections, data and document analysis, interviews with end-users and responsible staff, as well as conducting necessary measurements and counts.

2. DATA COLLECTION

During the initial phase of data collection, comprehensive information was gathered using various methods, including observation, surveys, discussions with relevant personnel, data analysis, and measurements. The methodology involved preparing and completing questionnaires, conducting physical inspections of the campus, reviewing documents, observing processes, and interviewing responsible individuals.

3. BIODIVERSITY AUDIT

The biodiversity audit aims to provide a clear understanding of the campus's ecological characteristics and to promote the conservation of existing flora and fauna. Ecological preservation involves safeguarding biodiversity and ensuring the sustainability of the ecosystem by maintaining air quality, water resources, and effective waste management on campus. The audit involved identifying and recording the plant and animal species present. Tree name boards displaying scientific names were installed to enhance students' knowledge about various plants, inspiring them to contribute to plant conservation.

The college campus spans over an area of 25 acres which is surrounded by lush green vegetation. The institution is situated in a serene atmosphere away from the bustling town. The campus is rich in biodiversity with different types of flora and fauna as it is situated in the foothills of Western Ghats which is considered as a World Heritage Site by UNESCO. There are around 400 different species of plants which includes herbs, shrubs and trees. Herbs like *Cyanthillium cinereum* (Little iron weed), *Tridax procumbens* (Tridax daisy) and *Euphorbia heterophylla* (Wild poinsettia) are common. Shrubs include *Senna alata* (Candle bush), *Chassalia curviflora* (Curved flower woody chassalia) and *Clerodendrum infortunatum* (Hill glory bower). Economically important trees like *Tectona grandis* (Teak) are also planted and preserved in campus. Lower plants like ferns and bryophytes enriches the biodiversity. Pteridophytes like *Pteris* and *Selaginella* are common. Campus has a garden of ornamental plants including *Auracaria heterophylla* (Monkey's puzzle), *Cyrtostachys renda* (Ornamental Palm), *Bauhinia purpurea* (Purple Bauhinia), *Murraya paniculata* (Orange Jasmine) and *Cassia fistula* (Golden shower tree). Different medicinal

plants in the campus include *Azadirachta indica*, *Andrographis paniculata* (Green chiretta), *Achyranthes aspera* (pricky chaff flower). Plant wealth in the campus include food crops like *Manihot esculenta* (Tapioca), *Pisum sativum* (Pea), *Amaranthus* sps (Amaranth), *Mangifera indica* (Mango) and *Artocarpus heterophyllus* (jack fruit).

LIST OF PLANTS IN THE CAMPUS

HERBS AND CLIMBERS

Scientific Name	Common name	Family
<i>Desmostachya bipinnata</i> (L.) Stapf	Big cord grass, Darbha	Poaceae
<i>Cymbopogon nardus</i> (L.) Rendle	Lemon grass	Poaceae
<i>Pennisetum polystachium</i> (L.) Schult	Pennisetum	Poaceae
<i>Spermococe ocymoides</i> Burm.f.	Purple leaved button weed, Taravu	Rubiaceae
<i>Clitoria ternatea</i> L.	Butterfly Pea	Faboideae
<i>Coccinia grandis</i> L. Voigt	Coccinia	Cucurbitaceae
<i>Mikania micrantha</i> Kunth.	Mikenia	Asteraceae
<i>Acalypha indica</i> L.	Indian Acalypha, Kuppamani	Euphorbiaceae
<i>Acalypha ciliate</i> Forssk	Acalypha	Euphorbiaceae
<i>Achyranthes aspera</i> L.	Prickly Chaff Flower	Amaranthaceae
<i>Ageratum conyzoides</i> L.	White weed	Asteraceae
<i>Alternanthera bettzickiana</i> (Regel) G. Nicholson	Calico plant	Amaranthaceae
<i>Alysicarpus vaginalis</i> (L.) DC.	Alyce Flower	Faboideae
<i>Alternanthera brasiliana</i> (L.) Kuntze	Brasilian joyweed	Amaranthaceae

<i>Andrographis paniculata</i> (Burm.fil.) Nees	Kalmegh	Acanthaceae
<i>Bridelia stipularis</i> (L.) Blume	Bridelia	Phyllanthaceae
<i>Centrosema molie</i> Benth.	Centrosema	Faboideae
<i>Euphorbia hirta</i> L.	Asthma weed	Euphorbiaceae
<i>Chassalia curviflora</i> Wall (Thawaitea)	Chassalia	Rubiaceae
<i>Costus speciosus</i> J. (Koenig) Sm.	Costus	Costaceae
<i>Curculigo orchiodes</i> Gaertn.	Black Musli	Hypoxidaceae
<i>Cyanotis cristata</i> (L.) D. Don	Crested Fat Ears	Commelinaceae
<i>Cyclea peltata</i> Hook. F. & Thoms	Raj Patta	Menispermaceae
<i>Indigofera linnaei</i> Ali	Birdsville indigo	Fabaceae
<i>Ipomoea hederifolia</i> L.	Red morning glory	Convolvulaceae
<i>Laportea interrupta</i> (L. Chew	Laportea	Urticaceae
<i>Sida acuta</i> Burm. f.	Sida	Malvaceae
<i>Mimosa pudica</i> L.	Touch me not	Fabaceae
<i>Mimosa diplotricha</i> Sauvallae	Gaint sensitive plant	Fabaceae
<i>Mollugo pentaphylla</i> L.	African chickweed	Molunginaceae
<i>Olderlandia umbellata</i> L.	Chay root	Rubiaceae
<i>Oxalis corniculata</i> L.	Creeping Oxalis	Oxalidaceae
<i>Spilanthes acmella</i> (L.) Murrey	Spilanthes	Asteraceae
<i>Peporomia pellucida</i> (L.) Kunth	Silverbush	Piperaceae
<i>Pilea microphylla</i> (L. Liebm	Gun powder plant	Urticaceae
<i>Synedrella nodiflora</i> (L.) Gaertn.	Synedrella weed	Asteraceae
<i>Vernonia cinerea</i> L.	Ash fleabane	Asteraceae
<i>Zingiber zerumbet</i> (L.) Roscoe ex Sm.	Bitter ginger	Zingiberaceae

SHRUBS

Scientific Name	Common Name	Family
<i>Ixora coccinea</i> L.	Garden Flame	Rubiaceae
<i>Melastoma malabathricum</i> (L.) Smith	Melastoma	Melastomaceae
<i>Croton bonplandianus</i> Baill.	Ban Thulsi	Euphorbiaceae
<i>Clerodendrum infortunatum</i> L.	Hill glory bower	Verbenaceae
<i>Cyrtostachys renda</i> Blume.	Sealing wax palm	Aracaceae
<i>Helicteres isora</i> L.	East Indian Screw tree	Malvaceae
<i>Leea indica</i> (Burm.f.) Merr.	Bandicoot Berry	Vitaceae
<i>Melicope lunu-ankenda</i> (Gaertn.)T.G.Hartley	Melicoppe	Rutaceae
<i>Senna alata</i> (L.) Roxb.	Candle bush	Fabaceae

TREES

Scientific Name	Common Name	Family
<i>Delonix regia</i> (Boj.ex Hook.) Rafin.	Gulmohar	Caesalpiniaceae
<i>Bauhinia variegata</i> L.	Purple bauhinia	Caesalpiniaceae
<i>Mangifera indica</i> L.	Mango tree	Anacardiaceae
<i>Lagerstroemia speciosa</i> (L.) Pers	Pride of India	Lythraceae
<i>Cinnamomum tamala</i> (Buch.-Ham) Th. G. G. Nees	Indian bay leaf	Lauraceae
<i>Adenanthera pavonine</i> L.	Red Lucky seeds	Mimosaceae
<i>Syzygium cumini</i> L. Skeels var. <i>cumini</i>	Malabar Plum	Myrtaceae

<i>Tectona grandis</i> L. f.	Teak	Lamiaceae
<i>Ficus Benghalensis</i> L. var benghalensis	Indian Banyan	Moraceae
<i>Morinda citrifolia</i> L.	Noni	Rubiaceae
<i>Caryota urens</i> L.	Fishtail Wine palm	Aracaceae
<i>Cassia fistula</i> L.	Golden shower tree	Caesalpiniaceae
<i>Azadirachta indica</i> A. Juss.	Indian Lilac	Meliaceae
<i>Peltophorum pterocarpum</i> (DC.) Backer ex Heyne	Yellow flame tree	Caesalpiniaceae
<i>Psidium guajava</i> L.	Guava	Myrtaceae
<i>Plumeria alba</i> L.	Frangipani	Apocynaceae
<i>Swietenia macrophylla</i> King.	Mahagani	Meliaceae
<i>Alstonia scholaris</i> (L.)R. Br	Blackboard tree, Devils tree	Apocynaceae
<i>Auracaria heterophylla</i>	Monkey's puzzle	Araucariaceae
<i>Hevea brasiliensis</i> (Willd. Ex A. Juss.) Muell.-Arg	Rubber	Euphorbiaceae
<i>Ficus auriculata</i> Lour.	Roxburgh Fig	Moraceae
<i>Phyllanthus emblica</i> L.	Gooseberry	Euphorbiaceae
<i>Garcinia gummi-gutta</i> (L.) Robs.var gummi-gutta	Malabar tamarind	Clusiaceae
<i>Pterocarpus marsupium</i> Roxb.	Indian Kino tree	Fabaceae
<i>Macaranga peltate</i> (Roxb.) Mull. Arg.	Macaranga	Euphorbiaceae
<i>Atrocarpus heterophyllus</i> Lam	Jackfruit	Moraceae
<i>Aporosa lindleyana</i> (Wight.) Baill.	Lindley's aporosa	Euphorbiaceae
<i>Holarrhena pubescens</i> Wall. Ex G. Don	Indrajao	Apocynaceae
<i>Atrocarpus hirsutus</i> Lam.	Wild Jack	Moraceae

<i>Careya arborea</i> Roxb.	Kumbi	Lecythidaceae
<i>Pterocarpus marsupium</i> Roxb.	Indian Kino Tree	Fabaceae
<i>Terminalia paniculata</i> Roth.	Flowering Murdah,	Combretaceae
<i>Carica papaya</i> L.	Papaya	Caricaceae
<i>Cocos nucifera</i> L.	Coconut	Aracaceae
<i>Acacia nilotica</i> (L.) Delile	Gum Arabic Tree	Terminalia paniculata
<i>Erithrina variegata</i> L.	Indian Coral Tree	Fabaceae

The campus is blessed with different types of mammals, birds and fishes. The pond in the college is habitat to various aquatic species like *Anabas testudineus* (Climbing Perch) and *Poecilia reticulata* (Guppy). Birds include *Columba livia domestica* (Rock pigeon), *Streptopelia chinensis suratensis* (spotted dove) and *Cuculus micropterus* (Indian cuckoo). *Pteropus giganteus* (Great Indian Fruit Bat), *Herpestes edwardsii* (Common Mongoose) and *Funambulus palmarum* (Three striped palm squirrel) are some of the mammals.

LIST OF ANIMALS

FISHES

SCIENTIFIC NAME	COMMON NAME	FAMILY
<i>Anabas testudineus</i>	Climbing Perch	Anabantidae
<i>Poecilia reticulata</i>	Guppy	Poeciliidae

BIRDS

SCIENTIFIC NAME	COMMON NAME	FAMILY
<i>Columba livia domestica</i>	Rock Pigeon	Columbidae
<i>Streptopelia chinensis suratensis</i>	Spotted Dove	Columbidae
<i>Streptopelia risoria</i>	White Dove	Columbidae
<i>Corvus splendens</i>	Crow	Corvidae
<i>Corvus macrorhynchos culminatus</i>	Large billed crow	Corvidae
<i>Dinopium benghalenses</i>	Woodpecker	Picidae

<i>Microplernus brachyurus jerdonii</i>	Rufus Woodpecker	Picidae
<i>Dinopium javanese</i>	Common Flameback Wookpecker	Picidae
<i>Passer domesticus</i>	Sparrow	Passeridae
<i>Acidotheres tristis</i>	Myna	Sturnidae
<i>Clamator jacobinus</i>	Pied Cuckoo	Cuculidae
<i>Eudynamis scolopacea</i>	Asian Koel	Cuculidae
<i>Cuculus micropterus</i>	Indian cuckoo	Cuculidae
<i>Clanga hastata</i>	Indian Spotted Eagle	Accipitridae
<i>Haliastur indus</i>	Brahminy Kite	Accipitridae
<i>Milvus migrans govinda</i>	Black Kite	Accipitridae
<i>Glaucidium radiatum malabaricum</i>	Owlet	Strigidae
<i>Sitta frontalis frontalis</i>	Nuthatch	Sittidae
<i>Turdoides striatus malabaricus</i>	Jungle Babbler	Cisticolidae
<i>Psylloscopus trichiloides viridanus</i>	Greenish Warbler	Phylloscopidae
<i>Coracias benghalensis indica</i>	Indian Roller	Coraciidae
<i>Dicurus leucophaeus longicaudatus</i>	Grey or Ashy Drongo	Dicruridae
<i>Rubricapilla malabarica</i>	Crimson Throated barbet	Megalaimidae
<i>Collocalia unicolor</i>	Indian Edible Nest Swiftlet	Apodidae
<i>Upupa epops ceylonensis</i>	Hoopoe	Upupidae
<i>Copsychus saularis ceylonensis</i>	Oriental Magpie-robin	Muscicapidae
<i>Milvus migrans</i>	Pariah Kite	Accipitridae
<i>Proceis philippinus travencorensis</i>	Travancore Baya	Ploceidae
<i>Motacilla cineria cineria</i>	Large Pied Wagtail	Motacillidae
<i>Buceros bicornis</i>	Great Hornbill	Bucerotidae

MAMMALS

SCIENTIFIC NAME	COMMON NAME	FAMILY
<i>Pteropus giganteus</i>	Great Indian Fruit Bat	Pteropodidae
<i>Funambulus sublineatus</i>	Dusky Striped Squirrel	Sciuridae
<i>Funambulus palmarum</i>	Three Striped Palm Squirrel	Sciuridae
<i>Herpestes edwardsii</i>	Common Mongoose	Herpestidae
<i>Felis catus</i>	Domestic cat	Felidae
<i>Bandicota bengalensis</i>	Indian Mole rat	Muridae
<i>Rattus rattus</i>	Black Rat	Muridae
<i>Rattus norvegicus</i>	Brown Rat	Muridae
<i>Mus booduga</i>	Indian Field Mouse	Muridae
<i>Felis chaus</i>	Jungle Cat	Felidae
<i>Canis lupus familiaris</i>	Domestic dog	Canidae

4. WASTE MANAGEMENT AUDIT

The campus waste management system was evaluated to enhance the handling of both biodegradable and non-biodegradable waste materials. The 3R principle—Reduce, Reuse, and Recycle—is employed to ensure the effective implementation of waste management protocols on college grounds. Proper waste management is essential for maintaining an eco-friendly campus. Given the variety of waste generated in colleges, managing its collection and disposal poses significant challenges. The details below outline the types of waste produced and the strategies adopted by the college for their disposal.

The college follows the Green Protocol in all of its projects and operations. For the Protocol to be implemented effectively on the college grounds, the 3R waste management principle (Reduce, Reuse, and Recycle) is employed.

Under N.S.S. and N.C.C. outreach programs including Bharath Abhiyan campaigns, Swachatha hi Seva campaigns, Poshan Pakwada, and Swatch Pakwada, extensive solid waste collection is also done on a regular basis. Colleges and dormitories have sanitary napkin incinerators installed for the careful disposal of sanitary napkins.

Liquid Waste Management

To treat liquid waste produced on campus from the dormitory, canteen, wash area, and restrooms, the campus contains subsurface drainage systems and leach pits. The Department

of Chemistry takes great care to guarantee that any liquid waste water produced in labs does not expose users to chemical risks.

E-Waste Management

In order to efficiently reuse the electronic equipment, special attention is paid to its repair and maintenance. To ensure optimal use, all the electronic gadgets need routine maintenance. The providers themselves guarantee proper maintenance and upkeep. E-waste produced by the institute is collected from various departments and securely stored until a deal is struck with a company that recycles E-waste.

Biomedical Waste Management

On campus, no biomedical waste is produced.

5. AUDIT OF WATER USAGE

Water is an indispensable part of life and plays a critical role in sustaining both human activities and the environment. To ensure its responsible use, a water audit was carried out on the college campus. This audit aimed to provide a comprehensive understanding of the various sources of water available within the campus, their usage patterns, and potential areas for improvement. By analyzing water consumption and management practices, the college can work towards sustainable usage and conservation of this vital resource.

WATER USAGE	APPROXIMATE QUANTITY IN LITERS
Daily usage of water	11000 L
rain water harvesting	20000 L
WATER SOURCES	NUMBER
Bore well	1
Well	1
Water connection from Kerala Water Authority	1

6. CARBON FOOTPRINT

- i. Number of persons using cars: 12
- ii. Number of persons using two wheelers :197
- iii. Number of persons using other transportation: 258
- iv. Number of vehicles in the college: NIL

- v. Total number of students in the college: 1440

The majority of students on campus use public transportation, reducing the carbon foot print of the student community. Students are not allowed to drive their cars on campus, although there are parking lots set up for them outside. Staff members have parking available for their personal automobiles on campus.

7.IMPLEMENTATION OF THE RECOMMENDATIONS IN THE PREVIOUS GREEN AUDIT

- i. Environmental education should be promoted more. More training programmes, seminars and group discussion for faculties and students should be conducted to promote environmental education.
- ii. More rain water percolation pits were made to increase ground water level and conservation of rain water
- iv. Purchase policy towards eco-friendly materials was established.
- v. Students actively participated in the efforts for waste management, biodiversity conservation and water conservation.

8. BEST PRACTICES

- i. Use of solar panels to utilize solar energy.
- ii. The water usage is monitored and wasting of water is checked.
- iii. More awareness programs related to environment are conducted.
- iv. Rain water harvesting is promoted.
- v. Expansion of medicinal garden in the campus.
- vi. Biogas is promoted for cooking in canteen and hostel.
- vii. Consideration of natural lighting in the construction of new buildings.
- viii. Energy conservation awareness campaigns like Urjakiran supported by Centre for Environment and Development.
- ix. Rain water harvesting pits.
- x. Vermicompost pit to decompose biodegradable materials.
- xi. Use of biogas plant to convert biodegradable waste of the college hostel into biogas.
- xii. Biodiversity conservation efforts.
- xiii. Awareness programmes and competitions on the significance of environment and biodiversity and observation of important days like environment Day, Ozone Day and Forest Week.
- xiv. Plastic waste disposal with the help of Harithasena of Punalur Municipality.

- xv. Posters and banners made by students on waste disposal, water usage and energy conservation.
- xvi. Carpooling by faculties to control carbon emissions.

9. RECOMMENDATIONS

- i. Conduct awareness campaigns to emphasize the importance of the 3Rs: Reduce, Reuse, and Recycle.
- ii. Implement biodiversity conservation projects, such as creating butterfly gardens and establishing fruit orchards.
- iii. Enhance environmental education by organizing additional training programs, seminars, and group discussions for both faculty and students.
- iv. Strictly monitor procurement policies to ensure the purchase of eco-friendly materials.
- v. Actively engage students from all disciplines in initiatives related to waste management, biodiversity conservation, and water conservation efforts.

10. CONCLUSION

Conducting a green audit is crucial for ensuring the sustainable operation of the institution. Regular monitoring of the campus biodiversity is necessary to understand the environmental impact of its activities. Equally important are the management of waste, water usage, and carbon emissions. The recommendations outlined in this report should be thoroughly reviewed and assessed during the next audit cycle.



6.5.1 Green Campus Initiatives at Sree Narayana College Punalur

Sree Narayana College, Punalur established on 1965 in the hilly area situated in Kollam, embodies the essence of a green campus both in appearance and actions. The lush greenery, along with eco-friendly infrastructure and practices, reflects the institution's unwavering commitment to sustainability and environmental stewardship. The college's green campus initiatives are designed not only to address current environmental challenges but also to foster a culture of responsibility and awareness among its stakeholders.

A key highlight of these initiatives is the **rainwater harvesting system**, which captures and conserves rainwater, ensuring its efficient use for various purposes on campus. This system significantly contributes to reducing water wastage and addressing water scarcity challenges, particularly relevant in Kerala's fluctuating monsoon cycles. Additionally, the college has installed a **solar power system with a capacity of 5 KW**, harnessing renewable energy to meet a portion of its energy needs. This system offsets carbon emissions and reduces the dependency on conventional power sources, contributing to a greener and cleaner environment.

In terms of waste management, the college has adopted a comprehensive approach. Biodegradable and non-biodegradable waste is systematically segregated, with composting units converting organic waste into manure for use in the college gardens. To further minimize waste, students are encouraged to bring food in reusable lunch boxes and are advised to take back any food waste to manage it responsibly at home. These efforts aim to cultivate environmentally conscious habits and reduce the overall ecological footprint of the institution.

The **BLDC (Brushless Direct Current) fan initiative** exemplifies the college's commitment to integrating sustainable technology into academic practices. These fans are known for their high energy efficiency, consuming significantly less power compared to traditional fans. The college has gone a step further by organizing workshops on **BLDC fan assembling**, offering students hands-on experience in developing eco-friendly technology. This program not only enhances technical skills but also raises awareness about sustainable practices, aligning seamlessly with the institution's green campus objectives.

Another notable initiative is the **soap-making workshop** organized by the Department of Chemistry. This workshop equips participants with practical knowledge of crafting soaps using natural, biodegradable ingredients, reducing the reliance on chemical-laden products. By focusing on eco-friendly materials, this program underscores the importance of sustainable consumer choices while fostering creativity, self-reliance, and entrepreneurial potential among students.

In addition to these initiatives, the college actively celebrates environmental milestones like **World Environment Day** and **National Science Day**, organizing events such as tree-planting drives, technical sessions, and skill-oriented workshops. These events are designed to inspire the academic community to adopt environmentally friendly practices and make meaningful contributions to society.

Through these comprehensive efforts, Sreenarayana College sets a commendable example of integrating sustainability into daily practices while fostering an eco-conscious culture within its academic community. By combining green infrastructure, innovative workshops, and impactful awareness programs, the college demonstrates how educational institutions can play a pivotal role in promoting environmental responsibility and sustainable development.