

# KURIAKOSE ELIAS COLLEGE MANNANAM

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# **Criterion - VII**

# 7.1: Institutional Values and Social Responsibilities



Report on Implementation of Institution Facilities and Initiatives

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# Report on Implementation of Institution Facilities and Initiatives for Alternate Source of Energy/Waste Management/Water Conservation/Green Campus Initiatives/ Disabled Friendly Environment

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# 🚛 Kuriakose Elias College, Mannanam

K.E College has showcased a profound commitment to sustainability and environmental stewardship through an array of impactful green initiatives. These efforts align with the Haritha Kerala Mission's principles and encompass a broad spectrum of campus activities.

Student involvement in environmental conservation is actively promoted through various campus clubs and organizations. The Bhoomitrasena Club, Nature Club, Energy Club, NSS, and ENCON Club provide students with opportunities to engage in and lead environmental initiatives. These groups are essential in fostering environmental awareness and encouraging active participation in sustainability efforts.

To further its environmental mission, the College organizes a diverse range of programs and events. These include nature study programs, practical training sessions, awareness-raising events, eco-friendly workshops, campus clean-up drives, and tree planting campaigns. Such activities are designed to promote environmental responsibility and empower both students and faculty.

Through these comprehensive green initiatives, K.E College not only enhances its environmental footprint but also builds a strong sense of responsibility and stewardship within the campus community, driving positive change and reinforcing its dedication to a sustainable future.

The principal activities of the College toward a green culture include:

1. The College has implemented segregated waste collection and recycling systems, promoting proper waste disposal practices among students and staff.

2. The utilization of vermicompost units and biogas plants for organic waste management reduces waste and contributes to resource conservation and energy efficiency.

3. Efforts to manage plastic waste, promote the 3Rs (Reduce, Reuse, Recycle), and raise awareness about the dangers of plastic pollution showcase the College's commitment to tackling environmental challenges.



4. The College's focus on electronic waste management, repair, and technology upgradation demonstrates a responsible approach towards electronic consumption and disposal, fostering a culture of sustainability and resource optimization.

5. Water conservation measures, such as rainwater harvesting, open well utilization, and water quality monitoring, contribute to sustainable water management on campus.

6. Additionally, the College's research and academic programs related to water analysis and purification further emphasize the importance of water conservation and quality management.

7. The installation of solar panels for renewable energy generation showcases the College's commitment to reducing carbon emissions and dependence on non- renewable energy sources.

#### **1. ENERGY MANAGEMENT**

#### (a) Solar Panel

As part of its eco-friendly green initiative, the K.E campus installed and commissioned a 20 kWp grid-connected solar power plant in 2019. The solar panels are mounted on the rooftop of the building and were installed according to the specifications and guidelines provided by ANERT (Agency for New and Renewable Energy Research and Technology). The solar power generated by the campus is connected to the distribution system of KSEB (Kerala State Electricity Board).



#### (b) Biogas Plant

The canteen block at the K.E campus has a waste absorption capacity of 6-7 kg per day for the biogas unit. As a result, the biogas unit generates enough gas to fuel a burner for approximately 4 hours each day. This sustainable process helps the campus manage its waste efficiently while simultaneously producing renewable energy for cooking purposes in the canteen.

Additionally, the organic waste residue from the biogas production process is utilized in the campus garden. This waste serves as a valuable source of nutrients, enhancing the soil's fertility and contributing to the overall environmental benefits of the campus. By utilizing biogas technology, the K.E. campus reduces the amount of waste generated and helps mitigate greenhouse gas emissions.





The College has implemented several initiatives to promote energy conservation and sustainable practices. These include:

**1. Energy Conservation Awareness Programme** at schools in Idukki District: The Department of Physics with Applied Electronics organized a two-day campaign to raise awareness among school students about energy conservation. Faculty members visited 13 schools, reaching 800 students, and educated them on methods to reduce electricity consumption.



2. Workshop on "Decoration Lights": In collaboration with various clubs, a one-day workshop was held to educate students about the efficiency of LED lights compared to traditional lighting options. The workshop aimed to promote energy-saving practices and equip students with skills in using LED lights. The decorated lights created by the students were sold and showcased during Christmas events, engaging both students and staff.







**3.** Sustainable Energy Conservation Day: On February 8, 2021, K.E College observed Sustainable Energy Conservation Day with a significant contribution from the Post Graduate



Department of Social Work. As part of this observance, the department released a mini-research report focusing on sustainable energy conservation models in Kerala.

This research aimed to explore and highlight innovative and effective energy conservation practices within the state. The report provided valuable insights into various models and strategies that can be adopted to enhance energy efficiency and sustainability. The release of this mini-research report was an integral part of K.E College's commitment to promoting sustainable energy practices.







**4.** A webinar on the topic "Understanding and managing your residential energy bills" was conducted by the ENCON club on 1st October 2021. The program was conducted as a hands-on training session for PG as well as UG students. 73 students participated in the event. The main aim of the program was home energy audit and thereby how we can save energy by the wise utilization of power. The resource person was Mr. Richu Zachariah, Certified Energy Auditor as well as Assistant Professor, Amal Jyothi College of Engineering, Kanjirappally.



**5. Workshop on Solar cell Fabrication:** In February 2020, the ENCON Club, supported by its student members, organized a successful ENCON Week. The inaugural event focused on raising awareness about energy conservation among both undergraduate and postgraduate students. Dr. Benny Joseph Thullisseril, Professor, KMEA Engineering College, Aluva delivered an insightful talk on "Energy Conservation," highlighting key strategies and practices.



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The afternoon session offered students a hands-on experience in solar cell fabrication, providing practical skills and deeper understanding of renewable energy technologies. This combination of awareness and practical training was instrumental in promoting energy conservation and sustainable practices within the campus community.



**4. Power Quiz Competition 2020:** Power quiz competition was organised in the virtual mode in Kuriakose Elias College, Mannanam in collaboration with KSEB Officers association to create awareness among students, on the need of saving energy, on 8 November 2020 by raising the slogan power to survive.





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**6. URJAKIRAN Program: World Energy Conservation Day** December 14, 2018. KEDAS and department of social work in association with Energy management center Kerala, conducted an awareness rally at Kallara Panchayath. The highlight of the URJAKIRAN Program was an awareness rally conducted at Kallara Panchayath. The rally aimed to educate the local community about the importance of energy conservation and practical measures they can adopt to reduce energy consumption.







#### 2. WASTE MANAGEMENT

The College has implemented segregated waste collection and management on the campus and has exhibited several billboards stating slogans like "Green Campus, Clean Campus" in prominent campus locations to motivate students and staff to green practices. The surroundings of the College are kept organic and green with the help of effective methods. The waste generated on campus is segregated by keeping it in colour-coded bins. The non-biodegradable waste is then collected by Haritha Karma Sena personnel monthly for recycling.

Sl. No	Categories of waste	Particulars	Disposal strategies
Ι	Solid waste		
	Food waste	All types of food items	Food waste is effectively
			managed in biogas plants,
			vermicompost units and also
			sold to pig farms situated
			outside the college campus
	Plastic waste	Food wrappers, food containers,	Collected by 'Haritha Karma
		carry bags, bottles etc	Sena' members, a recognised
			body under local self-
			government (Panchayat),
			Government of Kerala, for
			recycling purpose
	Paper waste	Discarded paper materials, old	Paper waste undergoes
		newspapers, cardboard, cartons,	controlled burning in
		magazines, envelopes, packages	Incinerator
		etc.	

Major waste categories and their disposal strategies



	Glass waste	Broken glass wares, glass	Hand over to 'Haritha Karma
		bottles, glass cups etc.	Sena' members, a recognized
			body under
			local self-government
			(Panchayat), Government of
			Kerala for recycling
			purpose
	Damaged furniture	Wooden furniture	Repair and Reuse
	Construction and	Concrete, cement, tiles, bricks,	Mainly used for landfilling
	Demolition (C&D)	paint, insulation materials,	and the rest are being sold to
	waste	cable and pipes etc	building
			contractors
	Electronic waste (e	Old computer, monitor, CPU,	Maximize e-waste repair and
	waste)	AC, printer, circuit board,	allocate unrepairable items to
		clock, fridge, TV, calculator	computer maintenance and
		etc.	hardware certificate program
			students while storing the
			remaining items in a designated
			store room.
	Hazardous waste	Empty chemical bottles,	neutralized before disposal
		Expired chemicals,	
		Tube lights, LED, CFL bulbs,	Collected and placed in the
		Batteries etc.	college compound and then
			sold to vendors
	Other waste	Table cloths, towels, curtains,	Sold in scrap
		Non-usable tyres, paint tin etc.	
II	Liquid waste		
		Sewage waste from toilets	Collected in Septic Tanks
		Wastewater from labs	Chemicals are collected in
			specified pits or tanks. The



		chemistry lab has a separate
		water drainage system beneath
		the lab floor before the liquid
		chemical waste gets collected
		into specified pits or tanks.
		Moreover, neutralizing of
		chemicals is followed in labs
	Wastewater from other wash	Collected in specified pits or
	areas	tanks

#### **E-waste management**

The College has implemented a comprehensive approach to managing electronic goods, prioritizing sustainability and practical learning opportunities. When electronic goods experience minor issues, the staff members generally take the responsibility for repairing them. The College has partnered with Zion consultants for more significant repairs, who provide annual maintenance services and handle electronic waste disposal since June 2, 2015.

During practical sessions, the Computer Maintenance and Hardware course uses damaged computers to teach students about computer maintenance and hardware troubleshooting. This hands-on approach enables students to gain practical skills and understanding of the inner workings of computers.

Furthermore, during lab sessions, students are given electronic and electrical instruments under repair to dismantle and reassemble. This practice-oriented learning helps students develop application-oriented skills and enhances their understanding of electronic devices.

The College opts for buyback options to stay updated with technology rather than purchasing new machines. This approach allows for technology upgrades while minimizing waste and reducing the environmental impact associated with the disposal of outdated equipment. Any gadgets or electronic goods not currently used are kept in a dedicated storage room. This storage approach ensures that these items are properly stored and can potentially be utilized in the future, promoting resource efficiency and minimizing unnecessary purchases.





The College Agreement with Zion consultants

Details	s of E- waste taken by Zion consultan	ts for Repairing/Replacing
		3
pate	ITEMS	REMARKS
01.07.2017	- harply alles	And the the for a second
<u> </u>	D computer monifors 3 Nos	Bought under management fund
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		[ PC. Repaired.]
08.05.20	8 Modem - 2 Nos	Domageol
69.10,2018	p.c. cabimet - 07 Nos.	Damaged
10		
08.03.2019	CPU = 04 Nos	management fund.
	cats type cable z 120mts.	old cables replaced with new
10.08.2019	Mouse - 21 Nos. Keyboard - 17 Nos	{ Damaged.
20·03·2020	compater monitor	pamaged.
	No. C. S.	(Stalight
	CTAT	A TAYLE



4 Replaced with new cable. 21.03.2021) cat-5 type cable 2300 mts C (SF) Damaged. 2) Modern - 2 Nos 3) Mother board - os Nos (SF) Domaged 10.08.202 i) Monitor - 11 Nos. 2) cable = 200 mts. pamaged form SF section 3) CPU # 10 Nos. 4) SMRS - 11 NOS. 5) Keyboard - 22 Nos. 06.07.2022 - 7 Nos SMPS. Damaged from cabinet - 4 Nos . SF section Mouse - 9 Nos parater - 04 Nos ... scanner - 02 Nos



5 Stom S.F. 03.03.2023 CCTV comera - 4 Nos. Keyboard - or Nos Demaced SMPS. - 09 Nos. Monitors - 03 Nos. multimeter - 09 Nos. From BSC Physics with Applied Electronics Lab. CRO - 03 Nos. Function Generator-02 Nos. IC POWER Suppl- 03 Nos 08.07.2023 Mouse - 09 Nos. pamaged. cat . s type cable ~ 150 mts. Damaged Ics. Restotors, capacitors From S.F. Transistors brigad Physics habor Physics haboratory board, Electronic connection wires Jotal - 5kg



List of Computers & Electronic Spares to **Department of Computer Application for Study Purpose** COMPUTERS AND ELECTRONIC SPARES TO DEPARTMENT OF COMPUTER APPLICATIONS FOR STUDY PURPOSE RENARKS ITEMS 20.03.2020 CPU - OT NOS. Received monitors - OT NOS. Dr. Smitha. 9. Returned and os Items 03 CPU monitors 11.07.2022 Received Smithen S.

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		UAMO, SA



# Healthy practices implemented in the College

1. The college policy emphasizes the ideas of the three R's – reduce, reuse, and recycle which ensures cleanliness and protects the environment on the campus.

2. Appropriate mechanisms for collecting and treating solid and liquid wastes are effectively implemented on campus. Waste bins (trash bins) are kept at appropriate campus locations to segregate solid waste at source properly. An adequate number of cleaning staff for the collection, segregation, and disposal of waste in the campus plays a significant role in waste management efforts by keeping the establishment clean and tidy.









3. An adequate number of cleaning staff for the collection, segregation, and disposal of waste in the campus plays a significant role in waste management efforts by keeping the establishment clean and tidy.





CRITERION 7.1.2 – REPORT OF ACTIVITIES FOR THE IMPLEMENTATION OF THE INITIATIVES

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4. Green classrooms. A beautiful outdoor space under a tree cover (688 sq. m.) was identified after the survey for conversion into a green classroom. The students created the classroom, from site planning and design to planting beautiful plants. As it was already under the shade of trees, additional cover for providing shade to students was unnecessary. The premises were cleaned.

Benches were set up to provide seating for the students while ensuring not to disturb or destroy the natural surroundings. The college has effectively used the outer space on campus by creating various gardens and parks, including a sunbeam garden, medicinal garden, Chavara Park, and Stone Park. Integrating these gardens and parks adds value to the campus and promotes a cleaner and healthier atmosphere.



**Chavara Park** 



**Butterfly garden** 



**Near Indoor Sports Stadium** 



5. Utilizing digital platforms for communication, e- filling, administration, class lectures, etc. gives rise to paperless culture on campus.



6. The college makes a conscious effort to avoid plastic wrapping for bouquets. By avoiding plastic wrapping, the college is committed to reducing plastic waste and minimizing its environmental impact. The **extensive use of coir mats, boards, and screw pine mats as display boards are highly promoted on campus**. This initiative aligns with the broader goal of creating a sustainable and eco-conscious campus environment.





7. **Biogas plant** is instilled to treat food waste generated on the campus which also supplements fuel for cooking in the canteen. **Vermicomposting units** are set up to utilize biodegradable waste effectively, and the manure produced is used for garden and vegetable growing purposes.



**Biogas Plant** 



Vermicomposting Unit



Organic farming



8. Every block of the College is provided with drinking water facilities in the form of coolers and purifiers that considerably reduce plastic bottled water in the campus.



9. To facilitate efficient trash disposal on the college campus, the college administration has installed three incinerators. These incinerators are responsible for the proper and scientific disposal of garbage collected from various premises within the campus. The incinerators are specifically designed to handle solid waste, including sanitary napkins, which can be a challenge to dispose of properly. The periodic collection of garbage ensures that waste is properly managed and not allowed to accumulate on the campus. With the installation of the incinerators, the College ensures that the waste is disposed of in a controlled and environmentally friendly manner, minimizing the potential negative impact on the surroundings.





10. To cater to the needs of female students and staff, the college has equipped the ladies' and girls' restrooms with napkin vending machines and collection bins. Additionally, the college takes regular measures to clear and incinerate the waste daily. This initiative promotes cleanliness and hygiene in the restrooms, providing a convenient and environmentally conscious solution for female college community members.



Sanitary napkin vending machine



Sanitary napkin incinerator



11. The college has introduced pen drop boxes in its main block and self-financing block for used pens in the box and later sent for recycling through scrap dealers.



Main block

Self-financing block

12. The College has a well-maintained canteen, ensuring the area is hygienic and safe.



13. The College has used cloth banners, metal boards, and electronic displays instead of flex and other plastic hoardings on the campus.





14. The College has taken appropriate steps to hand over the plastic and glass waste to Haritha Karma Sena (HKS), a government-approved body for waste collection. The solid waste management was executed with the support of Suchithwa Mission, Haritha Kerala Mission, Clean Kerala Company (CKC), local bodies, and Kudambashree Mission.

15. Various boards are placed in the College to spread awareness of waste management.





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16. The college demonstrates commendable dedication to maintaining a clean environment by regularly organizing activities like cleaning drives, awareness programs on environmental issues, and even farming practices. The institution has active student clubs like National Service Scheme (NSS) and Bhoomithrasena, which help strengthen student commitment towards environmental protection.

These initiatives showcase the college's commitment to promoting a clean and sustainable environment both within and outside the campus. By actively engaging students and staff in these activities, the college fosters a sense of environmental responsibility and encourages active participation in creating cleaner and healthier surroundings.



**Cleaning Drives by NSS Outside and Inside Campus** 



**Scrap Collection by NSS Inside Campus** 



#### **3. WATER CONSERVATION AND MANAGEMENT**

#### (a) Rainwater Harvesting Unit

The College has implemented a rainwater harvesting (RWH) system that collects rainwater from the rooftop of the indoor stadium. The harvested rainwater is then transferred to the main water tank, which has a capacity of 1 Lakh litres, after which it is transferred to other tanks with a capacity of 5000 litres each and undergoes filtration. This filtration system is crucial as it helps minimize the chances of leaves and other debris entering the tank, ensuring the collected rainwater remains clean and free from contaminants.



#### (b) Open Well

K.E. College recognizes the value of traditional water sources and has embraced open wells on its campus. These wells have stood the test of time and continue providing reliable water sources. With two functioning wells, the College can harness this natural resource to meet its water needs while reducing dependence on other external water sources. By utilizing open wells, the College promotes sustainable water use and embraces the rich cultural heritage associated with these traditional water sources.





#### (c) Bunds

Bunds are constructed to conserve water in the surrounding area. They can help capture and retain water during the rainy season, allowing it to percolate into the ground and recharge groundwater sources. By constructing bunds, the College can help replenish groundwater sources and promote sustainable water use in the surrounding area.





#### (d) Water Purification Plant

The College has installed two water treatment plants to ensure clean and safe water. These plants are strategically located in the main block and self-financing block. The purpose of these treatment plants is to treat the water before it is distributed throughout the campus. Each treatment plant consists of three filters. The first filter is a multigrade sand filter, which removes more significant impurities and sediments from the raw water. The water then passes through an iron removal filter, eliminating any iron traces present. Finally, the water is directed to an activated carbon filter, which further purifies the water by removing organic compounds, odors, and residual contaminants. Once the water has undergone this comprehensive treatment process, it is considered safe. The treated water is utilized for drinking, cooking, cleaning, sanitation, and other general purposes. These water treatment plants demonstrate the College's commitment to providing high-quality water to its students and staff, ensuring a healthy and hygienic environment.



Main block



Self-financing block



#### (e) Efficient Drinking Water Facility

The College has implemented drinking water facilities across its three blocks. Sixteen drinking water facilities are available, consisting of nine purifiers and four coolers. These facilities are strategically placed throughout the college to ensure convenient access to clean and refreshing drinking water for students, faculty, and staff.





#### Academic Initiatives for Water Quality Management

The College's Research and Postgraduate Department of Chemistry focuses on various research areas, including water quality management. A noteworthy research study titled "Investigations on the Synthesis of Different Nanocatalysts for the Deterioration of Persistent Organic Pollutants in Water under Sunlight" was completed and submitted in December 2022. This research project delved into synthesizing and characterizing innovative nano semiconductor photocatalysts and their application in treating wastewater. The significant findings of the research work have been recognized through publication in a reputable peer-reviewed journal with a high impact factor, highlighting the quality of the research conducted.

Furthermore, the department also offers a certificate program in water analysis, demonstrating its commitment to providing students with specialized knowledge and skills in analysing and assessing water quality. By emphasizing research and educational initiatives in water quality management, the department contributes to advancing scientific understanding and practical solutions in addressing water pollution and ensuring the availability of clean and safe water resources.



#### Add on certificate course - Analytical Techniques in Water Analysis

Under the Department of Chemistry, the College conducted a certificate course on Analytical Techniques in Water Analysis, which was granted by the UGC (University Grants Commission). This course aimed to provide students with specialized knowledge and skills in water analysis. Upon successfully completing the program, students acquired expertise in various analytical techniques for assessing water quality.



A sample certificate of Add on course



#### **Monitoring of Water Quality**

The College is equipped with a water analysis facility that regularly monitors water quality on campus and in nearby areas. This facility utilizes a water analyzer, allowing for comprehensive water parameter testing. The analysis includes assessments of factors such as pH levels, dissolved solids, microbial content, and chemical contaminants. By conducting these routine tests, the College ensures that the water consumed on campus meets the prescribed quality standards set by Indian regulations.

#### Awareness Programmes on Water Conservation

The Chemistry Department of the College organised a water conservation awareness programme for the residents of Vechoor Gramme Panchayat on March 22, 2023, in collaboration with the M.S. Swaminathan Research Foundation and the Haritha Keralam Mission. The college faculty members provided technical training and an awareness session on water conservation and they expressed their preparedness to monitor the water quality in Vechoor Gramme Panchayat.







#### **World Water Day Observance**

In connection with World Water Day, the Department of Psychology (SF) organized a program called "Jalam Choreography" at the college. As part of this initiative, a dance video was created to convey the message of the necessity and significance of water conservation.





#### Poster designing competition – World Water Day 2023

The College has organised a poster design competition for the students on water conservation as part of World Water Day. The event's main goal was to create awareness among students about the importance of water conservation and the need for everyone to contribute to this cause. The event highlighted the importance of water conservation and the consequences of its depletion.







KE College, Mannanam, has long been committed to fostering a sustainable and eco-friendly environment. The college's Green Campus Initiatives reflect its dedication to environmental stewardship and sustainable practices, aiming to reduce the ecological footprint of the campus while promoting a culture of environmental awareness among students and staff. Here's a look at three key aspects of these initiatives:

#### a. Restricted Entry for Automobiles

To mitigate the negative environmental impact of vehicular emissions and to reduce traffic congestion, KE College has implemented a policy of restricted entry for automobiles on campus. This measure encourages the use of alternative modes of transport such as bicycles, carpooling, and walking, thereby cutting down on air pollution and promoting a healthier lifestyle. By limiting automobile access, the college not only contributes to a cleaner environment but also enhances the overall campus experience, creating safer and more pedestrian-friendly spaces.





# **Car Pooling**

As an institutional value, the staff of the college follows many green initiatives and IQAC of the college encourages such practices. One among them is "Car-pooling System". The staff of the college commuting from one area shares their vehicles. Benefits of this system are as follows:

- Reduces traffic congestion
- Decreases air pollution
- Enhances energy conservation
- Saves cost of travel including vehicle maintenance
- Limit the number of parking spots required
- Enhances goodwill and co-operation among staff members

The details of carpooling system during 2022-2023 are given in the following table:

Place of Residence	Distance Travelled Daily	Car Registration Number	Faculty Members and Students in the Pool	Signature of Faculty Members & Students
Kanjirappally	80 kms	KL34 E 8584 KL 07 BP	Dr. Joyskutty Joseph (Dept.of Malayalam)	
		9900	Dr. Vinu J. George (Dept.of Politics) Mr.Prajod Sunny (Dept of Commerce) Mr.George J Puthumana (Dept of Commerce) Mr. Tijo Mathews (Dept.of Statistics)	And and a start of the start of



Changanacherry – Chettipuzha- - Mathumoola	54 kms	KL 33 L 314	Ms. Nisha Maria E. G. (Dept. of Zoology)	alan
			Dr. Jini Thomas (Dept. of Physics)	Fr Fb.
			Ms. Aparna Raj (Dept. of Physics)	Apouna
			Mr. Kevin George (Dept. of English)	Kenin
Pala- Bharanganam	52 kms	KL 35 J 7575	Ms. Jency Francis (Dept of Commerce)	gali
			Ms. Divya Joseph (Dept of Commerce)	hate the
			Ms. Chinchu Rose George (Dept. of English)	differ.
			Ms. Shilpa Joy (Dept. of Chemistry)	States
Pala- Puliyannoor	50 kms	KL35 F 5090	Dr.Ison V. Vanchipurackal (Principal)	× )/
			Dr. Mathews T. Thelly (Dept. of Botany)	4-1
			Dr. Jollyamma Mathew (Dept of Chemistry)	The Mary
			Ms. Neethu Jose (Dept. of Commerce)	Aleello
			Dr. Feby Jose (Dept. of Physics)	the P
Dala	48 kms	VI 25 V 9649	Dr. Sondhya C	1
Kottaramattom	40 KIIIS	KL 33 K 0040	(Dept. of Biochemistry)	ste
			Ms. Animol Thomas Ms.	iduo
			Ribymol Joseph	piba

Illikal	51.6 kms	KL 36 J 2537	Mr. George Sebastian (Dept. of Commerce – SF)	Comp
			Mathew Francis (Student – I Year M. Com)	Mathins
Kottayam- Kudamaloor	16 kms	KL 5 AK 2039	Ms. Amal Sharin T.J. (Dept.of Economics)	Blan
			Dr. Edithstine Rani Mathew (Dept. of Mathematics)	- ABB
			Sr. Dr. Jessy Joseph (Dept.of Zoology)	Sr. Garsy
Kottayam- chungam	14 kms	KL 5 AL 9406 KL 35 K 6974	Dr. Jaiby Joseph (Dept. of Physics)	Af
			Dr. Ranjini Radhakrishnan (Dept.of Physics)	-
Ettumanoor	15 kms	KL5 AX 2653	Ms.Suryamol K.R (Dept. of Commerce -SF)	Sunt
			Ms. Arya S. (Dept. of Commerce -SF)	a with the
			Ms. Rashmi R. (Dept. of Commerce -SF)	apport
			Ms. Jaimol Varghese (Dept. of Commerce -SF)	Acus
			Ms. Geethika Suresh (Dept. of Commerce – SF)	- Faittorko

Since its inception before 2018, the car-pooling system has been well-received and continues to thrive. Currently, around 33 staff members are actively participating in the initiative. The ongoing success of the car-pooling system is a testament to the staff's commitment to sustainability and the supportive environment fostered by the college's IQAC. By reducing traffic congestion, decreasing air pollution, conserving energy, saving costs, and fostering goodwill among staff, the system has proven to be a valuable and effective green initiative.



#### **b. Ban on Use of Plastic**

The College has implemented a systematic approach to manage plastic waste on the campus. Plastic waste is segregated and handed over to scrap vendors or Haritha Karma Sena, a group involved in waste management. Waste bins (trash bins) are kept at appropriate campus locations to segregate different kinds of waste (Plastic, biodegradable, etc.).









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Additionally, two pen drop boxes have been installed in the college building to encourage students to dispose of their used pens responsibly. The collected pens are then sent for recycling, promoting the reuse of materials.



**Main Block** 

**Self-financing Block** 

**Pen Drop Boxes** 

To raise awareness and promote waste reduction practices, display boards emphasizing the principles of the 3Rs (Reduce, Reuse, and Recycle) are placed around the campus. These boards serve as reminders to the college community to actively reduce plastic waste, find ways to reuse items, and participate in recycling initiatives.



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The College also conducts programs and campaigns to educate students about the environmental threats posed by plastic pollution. These initiatives aim to instill a sense of responsibility and encourage students to take action to reduce plastic usage and its impact on the natural environment.





Awareness on Waste Management on Campus



In an effort to minimize the use of plastic-based materials, the College has made conscious choices in its daily operations. For instance, traditional flex banners have been substituted with cloth materials that are more eco-friendly. Additionally, eco-friendly materials are preferred for decorations, further reducing the reliance on single-use plastics.



Use of Eco-friendly Materials for Decoration



Use of Eco-friendly Materials for Decoration



CRITERION 7.1.2 - REPORT OF ACTIVITIES FOR THE IMPLEMENTATION OF THE INITIATIVES



**Use of Cloth Banner** 



Use of Traditional Screw Pine Mat as Banner

By implementing these measures, the College demonstrates its commitment to plastic waste management, creating a campus environment that promotes responsible consumption, waste reduction, and a sustainable approach to plastic usage.



#### c. Green Campus

#### The Area Under Green Cover

Our college sits on a total area of 7.23 acres, of which 4965 sq. m. are under complete green cover. Every year, faculty and students plant new saplings and take good care of them, increasing the green cover on campus over time.



The overarching goal of KE College's Green Campus Initiative is to create a greener, more sustainable campus environment. This involves a range of activities and policies designed to enhance the campus's ecological footprint. From planting trees and maintaining green spaces to implementing energy-efficient systems and promoting recycling programs, the Green Campus initiative aims to integrate environmental sustainability into all aspects of campus life. These efforts not only improve the aesthetic and environmental quality of the campus but also educate and inspire the college community to adopt sustainable practices in their daily lives.

#### 1. Management of Campus Nursery and Plant protection

The management of the campus nursery and plant protection at college is given significant attention, recognizing vegetation's crucial role in beautifying the campus and creating a vibrant environment. The campus nursery primarily cultivates ornamental plants, adding aesthetic value to the surroundings. To ensure the well-being of the plants, two dedicated staff members



are appointed to take care of the nursery. Their responsibilities include watering the plants daily, providing the necessary nutrients, pruning when required, and attending to any other specific needs for maintaining a healthy and beautiful nursery. Their diligent efforts contribute to the overall health and appearance of the plants in the nursery.



Sunbeam Garden





CRITERION 7.1.2 – REPORT OF ACTIVITIES FOR THE IMPLEMENTATION OF THE INITIATIVES

In addition to the campus nursery, College also maintains a collection of medicinal plants. These plants serve a dual purpose, contributing to the campus's aesthetic appeal while providing educational and medicinal benefits. The students and staff actively nurture and care for these medicinal plants, further fostering a sense of connection and responsibility towards nature.



**Collection of Medicinal Plants** 

#### 2. Un-Constructed Barren Areas

The College significantly emphasizes transforming any barren and unconstructed areas into green spaces. These areas, which lack vegetation or structures, are given special attention to introduce green cover and make them functional and beneficial for the college community.

Efforts are made to convert these unconstructed spaces into constructive areas that students and staff can utilize. The focus is on creating functional and appealing spaces that serve a purpose and contribute to the campus environment. This may involve landscaping, planting trees and shrubs, and creating seating or recreational areas. By filling these previously barren areas with green cover and transforming them into constructive spaces, the College enhances the campus's overall aesthetics while providing practical and enjoyable areas for the college community to utilize.





Unconstructed barren area Landscaped with grass and trees

After conducting a survey, a picturesque outdoor area measuring 688 square meters was identified on the college campus. This area, already blessed with a natural tree cover, was chosen to be transformed into a green classroom. The students took charge of the entire process, starting from the site planning and design to selecting and planting aesthetically pleasing plants. Given the existing shade provided by the trees, there was no need to create additional cover for the students. The focus was on maintaining the natural ambiance while enhancing the space for educational purposes. The premises were thoroughly cleaned to create a welcoming and pleasant environment. To provide seating for the students, benches were strategically placed in the green classroom. Care was taken to ensure that the placement of the benches did not disrupt or harm the surrounding natural elements. The intention was to create a harmonious blend of functionality and preservation, allowing students to enjoy the outdoor classroom while appreciating the beauty of the natural surroundings. Overall, the students successfully transformed the identified area into a green classroom, showcasing their dedication to



environmental conservation and creating a serene space for learning and engagement with nature.





**Chavara Park** 



**Butterfly Garden** 



# **5. DISABLED FRIENDLY ENVIRONMENT**

KE College, Mannanam is dedicated to fostering an inclusive environment that ensures accessibility for all members of its community. As part of this commitment, the college has implemented several features designed to accommodate individuals with disabilities, facilitating ease of movement and ensuring equal access to campus facilities. the college's disabled-friendly environment, including ramps, disabled-friendly washrooms, display boards and signposts and the provision of scribes for examinations.

#### a. Ramps

The campus is equipped with a network of ramps strategically installed at various locations to ensure smooth and barrier-free access for individuals with mobility challenges. These ramps are designed to provide easy entry to key buildings and areas on campus. They are constructed with non-slip surfaces and gentle inclines to facilitate safe and comfortable navigation.









### b. Disabled-Friendly Washrooms

There are two disabled-friendly washrooms available in the campus. Washrooms are designed to be large enough to accommodate wheelchairs and other mobility aids. Washrooms are clearly marked with accessible signage to ensure they are easily identifiable.



# c. Display Boards & Signposts

To support effective navigation and access to information, the college has implemented Display Boards & Signposts with Large Print and High Contrast. Information is presented in large print and high-contrast colours for improved readability. Signage is placed at consistent heights and locations for ease of access by all individuals.









# d. Wheelchairs

KE College provides two wheelchairs for the use of students, staff, and visitors who may need them. These wheelchairs are readily available at the college entrance to ensure immediate access upon arrival. The college ensures that these wheelchairs are well-maintained, cleaned regularly, and easily accessible to those who need them. Users can request a wheelchair through the administrative office or health center, where assistance is also available for transporting the wheelchairs to various campus locations if needed.





# 🚛 Kuriakose Elias College, Mannanam



In addition to physical accessibility features, KE College provides support for students with disabilities during examinations through the provision of scribes.

# **University Orders for Scribes**

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J B Andrews Chackochi-PRN-210021062771 with 40% Specific Learning Disability.



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#### Molenno

ജിഷ്ണ പി വിജി - 2022 പ്രവേശന വർഷം - ബി എ എക്കണോമിക്ക് മോഡൽ ! - കര്യാക്കോസ് ഏലിയാസ് കോളേജ് , മാന്നാനം - സവേകലാശാല പരീക്ഷകളിൽ പ്രത്യേക ആനുകൂല്യങ്ങൾ അനുവദിച്ചു - ഉത്തരവ് പുറപ്പെടുവിക്കന്നു.

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ട്ട് <i>പരാമർശം:</i> (1)മാന്നാനം, കര്യാക്കോസ് ഏലിയാസ് കോളേജ് പ്രിൻസിപ്പാൾ 11/04/2022 ൽ നൽകിയ കത്ത് (2) സർവകലാശാല ഉത്തരവ് നം. 2374/ ACA1 /2021/ എം ജീ യു തിയതി 11 / 05 / 2021
മാന്നാനം,കര്യാക്കാസ് ഏലിയാസ് കോളേജ് പ്രിൻസിപ്പാളിൻറെ പരാമർശം (1) പ്രകാരമുള്ള ശുപാർശയോട് കൂടിയ അപേക്ഷ പരിഗണിച്ച് പരാമർശം (2) പ്രകാരമുള്ള ഉത്തരവിൻറെ അടിസ്ഥാനത്തിൽ 40% Specific Learning Disability നിമിത്തമുള്ള വൈഷമൃങ്ങൾ നേരിടുന്ന J B Andrews Chackochi (PRN : 210021062771) - ക്ക് പരിക്ഷ എഴുതുന്നതിന്
(a) മണിക്കൂറിന് 20 മിനിറ്റ് വീതം COMPENSATORY TIME (മുന്ന് മണിക്കൂർ ദൈർഘ്യമുള്ള പരീക്ഷക്ക് പരമാവധി ഒരു മണിക്കൂർ) (b) ഒരു സക്രൈബിന്റെ സേവനം (c) കമ്പ്യൂട്ടറിന്റെ സഹായം (d)ഉള്ളടക്കം അടിസ്ഥാനമാക്കിയുള്ള വിലയിരുത്തൽ (Content based Evaluation)
എന്നീ ആനുകൂല്യങ്ങൾ ബികോം കോജ് വിജയിക്കുന്നത് വരെ എണ്ട് എല്ലാ സർവകലാശാല (റഗ്ഗലർ, സപ്പ്ളിമെന്ററി & Betterment ) പരീക്ഷകളിലും അനുവദിച്ചു കൊണ്ട് ബഫ്രമാനപ്പെട്ട പ്രോ, വൈസ് ചാൻസലർ ഉത്തരവായിരിക്കുന്നു. ന്ന്നു തദനുസരണം മത്തരവ് പുറപ്പെട്ടവിക്കുന്ന
മേബിൾ എൻ എസ്
ട് സ്റ്റേന്റ് രജിസ്കാർ 23 (പരീക്ഷ) 2 2
2 പകർപ്പ് 1. ജെ ബി ആൻഡ്രൂസ് ചാക്കോച്ചി 2. പ്രിൻസിപ്പൽ, കര്യാക്കോസ് ഏലിയാസ് കോളേജ് 3. പരീക്ഷ കൺട്രോളറ്റടെ പി. എ 4. സിസ്റ്റം മാനേജർ 5. ഫയൽ കോപ്പി
2000 alla (Hasa. An alla 1 om and as allowed

J B Andrews Chackochi-PRN-210021062771 with 40% Specific Learning Disability

നമ്പർ-സി.ബി.സി.എസ്.എസ്.xv/1/epi.Con/2019(87-1) പി.ഡി.പടിൽസ് തീയതി: 29-10-2019 ഭിതിയിപ് വിഷയം: കാഴ്ച ഒവകലും അടുഭവിക്കുന്ന വിദ്യാർബിനിക്ക് പ്രത്യക ആനുകൂലുങ്ങൾ ഞ്ഞുവരിച്ചു നൽകുന്നത് സംബന്ധിച്ച്. സുചനം - 11 കെ.ഇ കോളേട് ലാസാരഞ്ഞ ബി.എ.ഹിസ്റ്ററി ഹിദ്യാർത്ഥിനിയായ SWATHY SANTHOSH പ്രത്യക ആതുകുവും ലഭിക്കുന്നതിന് വേണ്ടി പ്രിൻസിപ്പലിൻറെ യുപാർശയോട് കൂടി സമർപ്പിച്ച അപേരമ 2) ബഹുദ്യപോ വൈസ് ചാൻസിലറുടെ 11,1072019 ലെ ഉത്തരവ് കെ.ഇ കോളേജ് മാന്നാത്തെ രോഡലം ഹിസ്റ്ററി ബിരുദ വിദ്യാർത്തിയായ ന്നുകിറാജ്യാലെ പ്രകുറായെപ്പ്രക നേരം (eba eros)ലാനസരു whaw വിദ്യാർത്ഥിനി ആകയാൽ എല്ലാ സർവ്വക്കാശാല പതിക്ഷെൾക്കും പ്രത്യക ആസുകൂല്യം അനുവദിച്ചു തരണം എന്ന് കാണിച്ചു പതാമർശം 1 പ്രകാരം ഓപേഷ്യ സമർപ്പിച്ചിരുന്നു മെഡിക്കൽ ബോർഡ് ടി വിദ്യാർത്ഥിനിക്ക് 100% കാഴ്ചാവെക്കും ഉണ്ട് എന്ന് സാക്ഷ്യപ്പെടുത്തിയിരിക്കുന്നു പരാമർശം-2 ലെ ബഹുദ പ്രൊ വൈസ് ചാൻസിലറുടെ ഉത്തരവിൻ . പ്രകാരം ടി വിദ്യാർബിനിയ്ക്ക് എല്ലാ സർവ്വക്കായാല പരിക്കുകൾക്കും താഴെ സൂ.ചിപ്പിക്കുന്ന പ്രത്യക ആനുകൂല്യങ്ങൾ അനുവദിച്ചു ഉങ്ങരവായിരിക്കുന്നു. 1. Sol avana 2 പരിക്ഷ സഹായിയുടെ സേവനം കോസൻസേറ്ററി സമയം 20 മിനിറ്റ്/മണിക്കൂർ ഞബിസ്റ്റൻറ് രമിസ്ട്രാർ XIV (പരിക്ഷ) പരീക്ഷ് കൺട്രോളർക്കു വേണ്ടി സ്ഥികർത്താവ്: SWATHY SANTHOSH, കെ.ഇ കോളേജ് ,മാന്നാനം, പകർപ്പ്: 1 പ്രിൻസിപ്പൽ കെ.ഇ കോളേജ് ,മാന്നാനം. 2 പയൽ കോപ്പി/സ്റ്റോക്ക് പയൽ

Swathy Santhosh with 100% visual deficit





#### Sreekuttan I.M. with Physical disability due to cerebral palsy



mmເຈໍ: ແນ່). ແນ່ງ. ແນ പി.ഡി.ഹിൽസ് തിരാനി; 29-10-2019 <u>അറിയിപ്</u> വിഷയം: കാഴ്ച വൈകല്യം തനുഭവിക്കുന്ന വിദ്യാർത്മിനിക്ക് പ്രത്യക ആനുകൂല്യങ്ങൾ അനുവദിച്ചു നൽകുന്നത് സംബന്ധിച്ച്. സൂചനം - 1) കെ.ഇ കോളേജ് ലാനാതത്തെ ബി.എ ഹിസ്റ്ററി നിദ്യാർത്ഥിതിയായ ട്രാപ്പായ SANTHOSH പ്രത്യക ആനുകുല്യം ലഭിക്കുന്നതിന് വേണ്ടി പ്രിൻസിപ്പലിൻറെ ശുപാർശയോട് കുടി ന്മാർപ്പിച്ച അപേർല 2) ബഹു: പ്രൊബേസ് ചാൻസിലറുടെ 21/10/2019 ലെ ഉത്തരന് കെ ഇ കോളേജ് മാന്നാനത്തെ മോഡർപ ഹിയ്ലറി ബിരുദ വിദ്യാർക്കിനിയായ SWATHY SANTHOSH(2019 Adm) താൻ കാഴ്ചാവെകല്യം അനുഭവിക്കുന്ന വിദ്യാർക്കിന്ന് ആകയാൽ എല്ലാ സർവ്വകലാശാല പരീമേരൾക്കും പ്രത്യക ആനുകുവ്വം അനുവറിച്ചു തരണം എന്ന് കാണിച്ചു പരാമൻശം-1 പ്രകാരം അപേക്ഷ സമർപ്പിച്ചിരുന്നു മെഡിക്കൽ ബോർഡ് ടി വിദ്യാർത്മിനിക്ക് 100% കാഴ്ചാവെകലും ഉണ്ട് എന് സാക്ഷ്യപ്പെടുത്തിയിരിക്കുന്നു പരാമർശം-2 ലെ ബഹു: പ്രൊ വൈസ് ചാർസിലറുടെ ഉത്തരവിൽ പ്രകാരം ടി വരാളത്തോ ഒല്ലാ നേരും പ്രോ തെന്നത് വാത്തത്തുക പ്രതേഷന്ത് പ്രതേഷം പ വിദ്യാർത്തിനിയ്ക്ക് എല്ലാ സർവ്വകലായാല പരിക്കേക്കരും താഴെ സൂചിപ്പിലാണ് പ്രത്യക ആനുകുല്യങ്ങൾ അനുവദിച്ചു ഉത്തരവായിരിക്കുന്നു 1 എസ് വഴിവാമാൽ 2 പരീക്ഷ സഹായിയുടെ സേവനം 3. കോസൻസേറ്ററി സമയം 20 മിനിറ്റ്.അണിക്കൂൾ Malt ແຄເໜິຖຸກົດດ້າ ລະໃຫ້(ຣວສ XIV (...ເລໂມສ) പരീക്ഷ കൺട്രോളർക്കു വേണ്ടി സ്വികർത്താവ്: SWATHY SANTHOSH, കെ.ഇ കോളേജ് ശാന്നാനം. പകർഎ: 1 പ്രിൻസിപ്പൽ,കെ.ഇ കോളേജ് ,മാന്നാനം. 2 പയൽ കോപ്പി/സ്റ്റോക്ക് പയൽ 2223 June : EPABX : 0481-2731050 to 2731068 Enquity : 0481-2731050-Eatter 1199, 1300, 1378, 1274

Swathy Santhosh with 100% visual deficit







Sarun Thomas (MCom. Student) with Physical disability



നമ്പർ:സി.ബി.സി.എസ്.എസ്.xv/1/365.spl.Con/2017-19 പി.ഡി.ഹിൽസ് തിയതി: 29-10-2019 അറിയിപ് പിക്തം: മാനസിക വെല്ലൂവിളി നേരിമുന്ന വിദ്യാർത്ഥിക്ക് പ്രത്ര്യക ആനുകൂല്യങ്ങൾ തംനുവദിച്ചു നൽകുന്നത് സംബന്ധിച്ച് സൂചന- 1) കെ ഇ കോളേജ് മാന്നാനത്തെ ബി.എ ഹിസ്റ്ററി വിദ്യാർത്ഥിയായ ALPHONS JOHN പ്രത്യക ആനുകൂല്യം ലഭിക്കുന്നതിന് വേണ്ടി പ്രിൻസിപ്പലിൻറെ ശൂപാർശയോട് കൂടി സമർപ്പിച്ച അപേക്ഷ 2) ബഹുഃ പ്രൊവൈസ് ചാൻസിലറുടെ 24/10/2019 ലെ ഉത്തരവ് മാന്നാനം കെ.ഇ കോള്രജിലെ മോഡർ ല ഹിസ്റ്ററി ബിരുദ പിദ്യാർത്ഥിയായ ALPHONS JCHN (2019 Adm) താൻ മാനസിക വെല്ലുവിളി നേരിടുന്ന വിദ്യാർത്ഥി ആകയാൽ എല്ലാ സര്വേകലാശാല പരീക്ഷകൾക്കും പ്രത്യക ആനുകുല്യം അനുവദിച്ചു തരണം എന്ന് കാണിച്ചു പരാമർശം-1 പ്രകാരം അപേക്ഷ സമർപ്പിച്ചിരുന്നു മാണിച്ച മെഡിക്കൽ ബോർഡ് ടി വിദ്യാർമ്മി 40% മാനസികവേല്ലൂവിളി നേര്ടുന്നു എന്ന് സാക്ഷ്യപ്പെടുത്തിയിരിക്കുന്നു. എന്നാൽ പ്രസ്തുത മെഡിക്കർ സർട്ടിഫിക്കറ്റ് വിദ്യാർത്ഥിക്ക് 16 വയസ് ഉള്ളപ്പോൾ നേടിയിരിക്കുന്നതും അതിൽ വിദ്യാർത്ഥി നേരിടുന്ന മാനസിക വെല്ലൂവിളി താത്കാലിക സ്വഭാവം ഉള്ളതാണെന്നും രേഖപ്പെടുത്തിയിരിക്കുന്ന സാഹചര്യത്തിൽ പരാമർശം 2 ലെ ബഹു: പ്രോ വൈസ് ചാർസിലറുടെ ഉത്തരവിൻ പ്രകാരം ടി വിദ്യാർത്ഥിയ്ക്ക് തൻറെ ഒന്നാം സെമസ്റ്റർ സർവ്വകലാശാല പരിക്ഷയ്ക്ക് മാത്രമായി താഴെ സൂചിപ്പിക്കുന്ന പ്രത്യക ആസുക്യല്യങ്ങൾ അനുവദിച്ചു ഉത്തരവായിരിക്കുന്നു. 1. സർവ്വകലാശാല പരീക്ഷ എഴുതുന്നതിന് കംപ്യൂട്ടറിൻറെ ഉപയോശം 2. പരീക്ഷ സഹായിയുടെ സേവനം 3. കോസൻസേറ്ററി സമയം 20 മിനിറ്റ്മണിക്കൂർ 4 തിയറി പേപ്പറ്റുകൾക്ക് ആകെ മാർക്കിൻറെ 25% ഗേസ് മാർക്ക് അസിസ്റ്റൻറ് രജിസ്ട്രാർ XIV (പരിക്ഷ) പരിക്ഷ കൺട്രോളർക്കു വേണ്ടി സ്വികർത്താവ്: TM ALPHONS JOHN, കെ.ഇ കോളേജ്,മാന്നാനം പകർപ്പ് 1 പ്രിൻസിപ്പൽ, കെ.ഇ കോളേജ് .മാന്നാനം. 2 പയൻ കോപ്പി/സ്റ്റോക്ക് ഫയൽ Enge : EPABX : 0481-2731050 to 2731068 Enquity : 0481-2731050-Extn. 1199, 1300, 1378, 1274

Alphons John with 40% mental Disability



# (e) Pedestrian-friendly pathways

The College has well-maintained, pedestrian-friendly pathways. Disabled-friendly ramps are also installed at specific points for easy movement through the campus. The restricted entry of vehicles on campus ensures the safety of pedestrians.



Dr. Ison V Vanchipurackal PRINCIPAL KURIAKOSE ELIAS COLLEGE MANNANAM, KERALA-686 561

