



St. Joseph College of Teacher Education for Women Ernakulam



CRITERION VII

7.1 Institutional Values and Social Responsibilities

7.1.1 Additional Information

Submitted to
National Assessment and Accreditation Council (NAAC)
3rd Cycle of Assessment



7.1.1 Additional Information

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ST. JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN

KOVILVATTOM ROAD, ERNAKULAM, KOCHI, PIN - 682 035, KERALA, S. INDIA

(Affiliated to Mahatma Gandhi University, Kottayam)

Recognised by NCTE

St Joseph College of Teacher Education for Women, Ernakulam has adopted the following Energy Conservation strategies in the years (2018-2023):-

1. Formulated a stated Energy Policy Document which is implemented in the institution.
2. Displayed its Green Protocol at strategic points and in the website.
3. Replaced the worn out electrical appliances by energy efficient ones
4. Powered the entire campus with solar energy from 2022 onwards
5. Organized workshop on 12th February 2021 to train students to repair household electrical appliances and thus save energy.
6. Carried out Energy Audit in January 2022
7. Enhanced energy consciousness among students, staff, stakeholders and society through :
 - i. Value Added Courses:
 - a. SJVAC2204: Foundation Course on Sustainable Development, and SJVAC2212: Foundation Course on Green Schooling in the year 2022-2023.
 - b. SJVAC2101: Foundation Course on Green Education in the year 2021-2022
 - c. SJVAC2001: Climate Education and Curriculum Development in the year 2020-2021
 - ii. Awareness Campaigns:
 - a. the student teachers of the Physical Science optional organized an Awareness Campaign in Energy conservation on 15th December 2022 at South railway station for the public and
 - b. the student teachers of Natural Science Optional conscientised the people of Kacheripady about Energy conservation on 15th December 2022.
 - iii. Display of sign boards in the campus to remind all to be responsible and judicious in the use of energy
 - iv. Encouraging the prospective teachers to take up research in sustainable practices for Green Culture : Lini John (M.Ed Programme 2020-2022) undertook a study on Green Culture and Scientific Temperament among Student Teachers at Secondary Level.



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ENERGY POLICY DOCUMENT



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ENERGY POLICY

Policy Statement

The Energy policy of St Joseph College of Teacher Education for Women, Ernakulam, envisions a Zero energy poverty by promoting energy efficiency, use of green energy and creating awareness of the same in its students, faculty staff and stake holders .

Purpose

1. To manage and reduce energy consumption
2. To help create a culture of responsible and judicious energy use among its students, faculty, staff and stake holders.
3. To contribute the little we can to affect Zero energy poverty and save the planet earth.

Guidelines for Energy Conservation

1. All electrical and electronic equipment bought must be from the standard and certified company with Energy Star Rating.
2. Electrical Lights and fans can be used whenever required but due care should be taken to switch it off as one leaves the room.
3. Make use of Natural light and breeze as much as possible by keeping the windows open
4. Each Optional class to have a student teacher in charge to check whether the electrical and electronic equipment are switched off when not in use.
5. Computer to be turned off at the end of the day.
6. Photocopier machines and printers to be in the standby mode when not in use.



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7. Use stairs instead of the elevator whenever possible.
8. LED bulbs and tubes to replace the incandescent bulbs.
9. Solar energy to be used whenever one can.
10. Electrical and electronic devices other than what is provided in the institution are to be used or plugged with the consent of the Principal.
11. Replacement of any electrical or electronic gadgets is done by the Bursar after consultation with purchase committee.
12. Harvest Solar energy.
13. Encourage the use of bicycles and electric vehicles.
14. Encouraging Research on Energy Conservation and Sustainable practices. .
15. Faculty and students to actively engage in projects that contribute to a cleaner, more sustainable future.
16. Collaborate with local communities, government agencies, and industry leaders to access funding, share best practices, and collectively address energy challenges.
17. An Energy audit to be done every alternative year for enhancing accountability.

St Joseph college of Teacher Education for Women's Energy Policy is just not a set of guidelines but it reflects our commitment to fostering and nurturing a Green Earth by permeating it into all the activities in the institution. SJCTEW shall comply with the applicable regulations of the International National and State Government and will contribute in fostering a greener future by reducing our environmental footprint, and serve as a model of sustainable energy practices for the broader community.



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GREEN PROTOCOL



Conserve Energy



Switch off Lights and Fans, when not in use.



Embrace clean energy sources like solar power to reduce reliance on traditional electricity grids.



Opt for star-rated electrical appliances to maximize energy efficiency and minimize environmental impact.



Conserve Water



Save water by promoting the use of sensor taps.



Install automatic water level control meters to efficiently manage water usage, preventing unnecessary overflow.



Implement water treatment methods to ensure water quality, and support earth recharge initiatives like rainwater harvesting and sewage water treatment to replenish groundwater.



Conserve Nature



Contribute to environment by planting trees and supporting organic farming.



Minimize environmental impact by avoiding single-use plastic materials.



Move towards a paperless office to reduce paper consumption, emphasizing digital documentation.



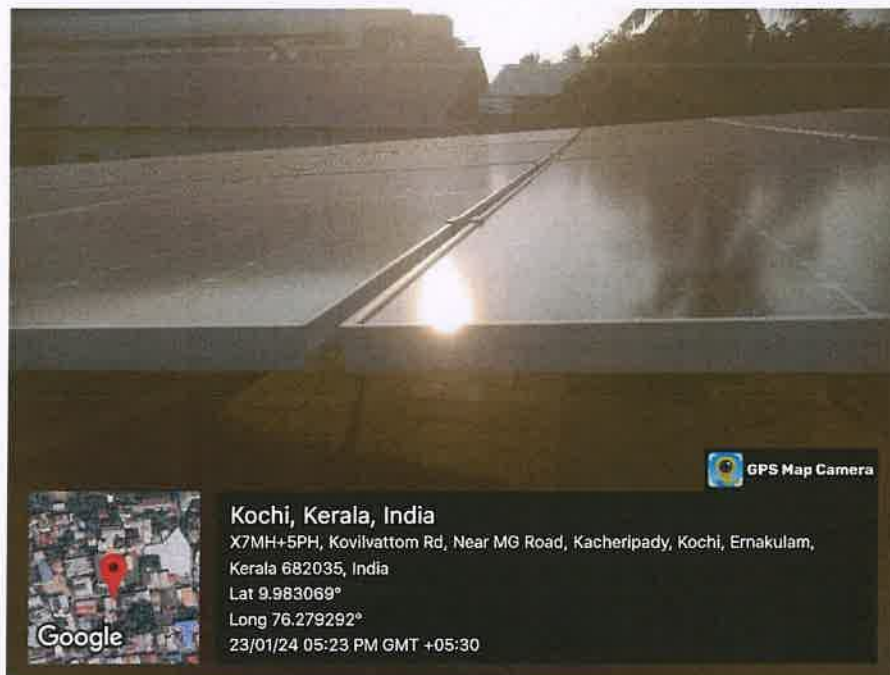
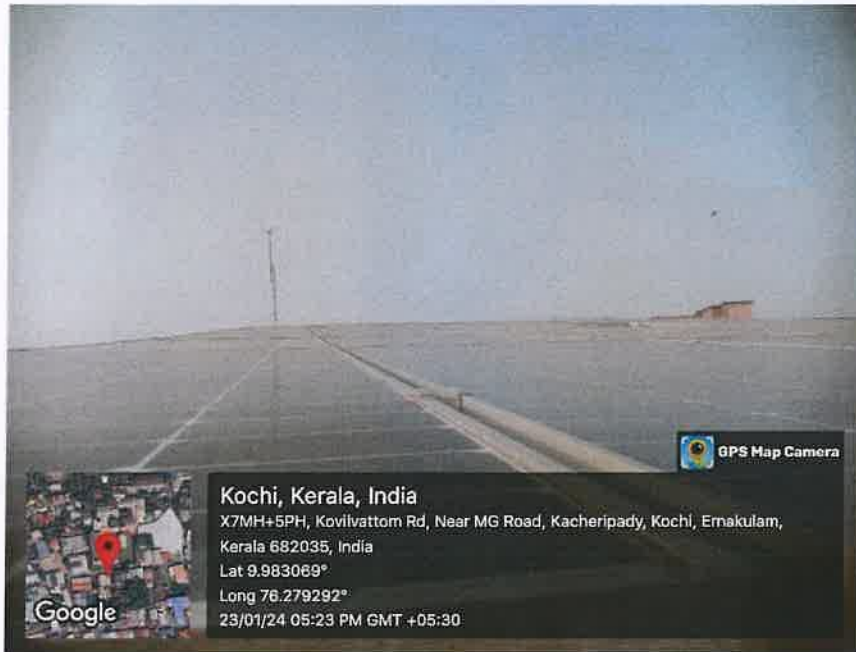
Embrace the 4R's - Reduce, Reuse, Recycle, and Recover - to promote responsible resource management.



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Solar Panels



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Training on Maintenance of Electrical Appliances on 12/02/2021
(Resource person: MS. Sivakala Sivaraman, Lecturer, Chavara ITI, Koonanmavu.)



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Energy Audit

ENERGY AUDIT



ST JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN

ERNAKULAM

EXECUTED BY



ATHUL ENERGY CONSULTANTS PVT LTD

4th FLOOR, CAPITAL LEGEND BUILDING,

KORAPPATH LANE, ROUND NORTH, THRISSUR-680020

Ph: +91 7356111990-6 Web: www.athulenergy.com E-Mail: info@athulenergy.com

January 2022

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Athul Energy Consultants Pvt Ltd

Energy Audit Report- St Joseph College of Teacher Education for Women

ACKNOWLEDGEMENTS

We express our sincere gratitude to the St Joseph College of Teacher Education for Women for giving us an opportunity to carry out the project of Energy Audit. We are extremely thankful to all the staffs for their support to carry out the studies and for input data, and measurements related to the project of energy audit.

- 1 Dr. Alice Joseph Principal
- 2 Dr. Josephine Joseph IQAC Co coordinator

Also mentioning our Energy audit team members for successfully completing the assignment in time and making their best efforts to add value.

ENERGY AUDIT TEAM

- 1 Mr. Santhosh A Accredited Energy Auditor No - AEA 0275
- 2 Mr. Jaideep P P Senior Project Engineer

Yours faithfully



Managing Director
Athul Energy Consultants Pvt Ltd

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Value Added Course Brochures

ST. JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN, ERNAKULAM

Course Code: SJVAC2212
Duration: 35 Hrs.
Begins on: 06/02/2023

FOUNDATION COURSE ON Green Schooling

Course Learning Outcomes:

- Understand the concept, the progressive nature and its role in the development and implementation of Green Schooling.
- Assess critically, ethically, and responsibly the existing Green Schooling.
- Recognize the challenges of Green Schooling.
- Apply the concept of Green Schooling in educational institutions.
- Apply the knowledge and skills to design and develop strategies for achieving Green Schooling.
- Conduct an educational intervention of Green Schooling program for achieving sustainable development.

UNIT 1: Green Schooling

Module 1: Concept of Green Schooling - 10 Hrs

- 1.1 Concept of Green Schooling and Sustainable Development
- 1.2 Green Schooling and Education for Sustainable Development
- 1.3 The Global Strategy for the Concept of Green Schooling

Module 2: Concept of Green Schooling and Sustainable Development - 10 Hrs

- 2.1 Historical Perspective of Green Schooling
- 2.2 Theoretical Framework of Green Schooling
- 2.3 Green Schooling: Aims and Objectives
- 2.4 The Role of Green Schooling in Sustainable Development

Module 3: Strategies of Green Schooling - 10 Hrs

- 3.1 Implementation of Green Schooling
- 3.2 Green Schooling: Aims and Objectives
- 3.3 Green Schooling: Aims and Objectives
- 3.4 Green Schooling: Aims and Objectives

Module 4: Evaluation of Green Schooling - 5 Hrs

- 4.1 Evaluation of Green Schooling
- 4.2 Evaluation of Green Schooling
- 4.3 Evaluation of Green Schooling
- 4.4 Evaluation of Green Schooling

ST. JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN, ERNAKULAM

Course Code: SJVAC2204
Duration: 35 Hrs.
Begins on: 13/07/2022

FOUNDATION COURSE ON Sustainable Development

Course Learning Outcomes:

- Analyze the concept and understanding of Sustainable Development.
- Assess critically, ethically, and responsibly the existing Sustainable Development.
- Recognize the challenges of Sustainable Development.
- Apply the concept of Sustainable Development.
- Apply the knowledge and skills to design and develop strategies for achieving Sustainable Development.
- Conduct an educational intervention of Sustainable Development program for achieving Sustainable Development.

UNIT 1: Sustainable Development - A global challenge

Module 1: Sustainable Development - A global challenge - 10 Hrs

- 1.1 Sustainable Development
- 1.2 Sustainable Development
- 1.3 Sustainable Development
- 1.4 Sustainable Development

Module 2: Sustainable Development - A global challenge - 10 Hrs

- 2.1 Sustainable Development
- 2.2 Sustainable Development
- 2.3 Sustainable Development
- 2.4 Sustainable Development

Module 3: Sustainable Development - A global challenge - 10 Hrs

- 3.1 Sustainable Development
- 3.2 Sustainable Development
- 3.3 Sustainable Development
- 3.4 Sustainable Development



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ST. JOSEPH COLLEGE OF TEACHER EDUCATION FOR WOMEN, ERNAKULAM

FOUNDATION COURSE ON Green Education

Course Code: SJVAC2101

Duration : 30 Hrs. Begins on: 04/04/2022

Course Learning Outcomes

- Develop knowledge and understanding about Green Education
- Think critically, objectively and creatively for promoting Green Education and making judgements
- Develop a sense of responsibility and become attentive, curious and skills towards protection and conservation of environment, biodiversity and sustainable development
- Recognize the importance of understanding various practices and adopt different strategies for Green Education
- Apply knowledge and skills to design and develop strategies for world Green education of living
- Develop the positive attitude towards building a green culture

Mode of Instruction:
Lecture, case discussions, panel discussion, role playing, projects, group discussion, video, field trip, drama, project work, surveys, assignments, seminars, demonstrations, exhibitions, role plays, videos, ICT based learning and learning.

Duration: 30 Hours

Course Content

Module 1 - Introduction to Green Education	2 Hours
1.1 Meaning, Nature, Scope and significance of Green Education	
Module 2 - Our Environment	8 Hours
2.1 Components of Environment and Ecosystem	
2.2 Flow of Energy in the ecosystem	
2.3 Concept of ecological balance	
Module 3 - Environmental Challenges	10 Hours
3.1 Environmental pollution	
3.2 Climate Change	
3.3 Ozone layer	
3.4 Waste and Waste management	
Module 4 - Sustainable Development	8 Hours
4.1 Meaning and importance of Sustainable Development	
4.2 Goals of Sustainable Development	
4.3 Concept of Education for Sustainable Development	

Module 5 - Green Curriculum **3 Hours**

5.1 Meaning and Benefits of Green Curriculum
5.2 Process of suggestions for Green Curriculum

Practical Work Sheet Check:

- Prepare a Mind map/Chart in your hand and upload the video
- Organize an exhibition yourself prepared for Green Education
- Conduct an Awareness Campaign for promoting Green Curriculum

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Climate Education and Curriculum Development

Course code : SJVAC2001

Duration : 30 Hrs. Begins on: 26/03/2021

Course Learning Outcomes

- Develop knowledge and understanding about Climate Education
- Think critically, objectively and creatively while making design, team work and making judgements
- Develop a sense of responsibility and become attentive, curious and skills towards protection and conservation of environment, biodiversity and sustainable development
- Recognize the importance of understanding various practices and adopt different strategies for Climate Education
- Apply knowledge and skills to design and develop strategies for world Climate education of living
- Develop the positive attitude towards building a Climate Education

Mode of Instruction:
Lecture, case discussions, panel discussion, role playing, projects, group discussion, video, field trip, drama, project work, surveys, assignments, seminars, demonstrations, exhibitions, role plays, videos, ICT based learning and learning.

Duration: 30 Hours

Course Content

Module 1 - Climate Education	5 Hours
1.1 Meaning, Nature and Significance of Climate Education	
1.2 Role of Education in Climate Change	
Module 2 - Climate	5 Hours
2.1 Meaning, Nature and Process	
Module 3 - Sustainable Living	5 Hours
3.1 Meaning of Sustainability	
3.2 Significance of Sustainable Living	
Module 4 - Waste Management	5 Hours
4.1 Definition of Waste	
4.2 Meaning of Waste Management	
4.3 Strategies for Waste Management	
Module 5 - Awareness Education in Climate Education	5 Hours
5.1 Meaning and Significance of Awareness Education	
5.2 Strategies for Awareness Education	

Module 6 - Climate Education in Curriculum **5 Hours**

6.1 Introduction to Alternative Pedagogical and Educating Methods
6.2 Integrating Climate Education in Curriculum for High School of Students on Climate Education

Practicals **2 Hours**

1. Design a Curriculum for High School of Students on Climate Education



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Energy Conservation Campaigns held on 16/12/2022



Student teachers from St. Joseph College of Teacher Education for Women, Ernakulam visiting Ernakulam South Railway Station as part of Energy Conservation Campaign,

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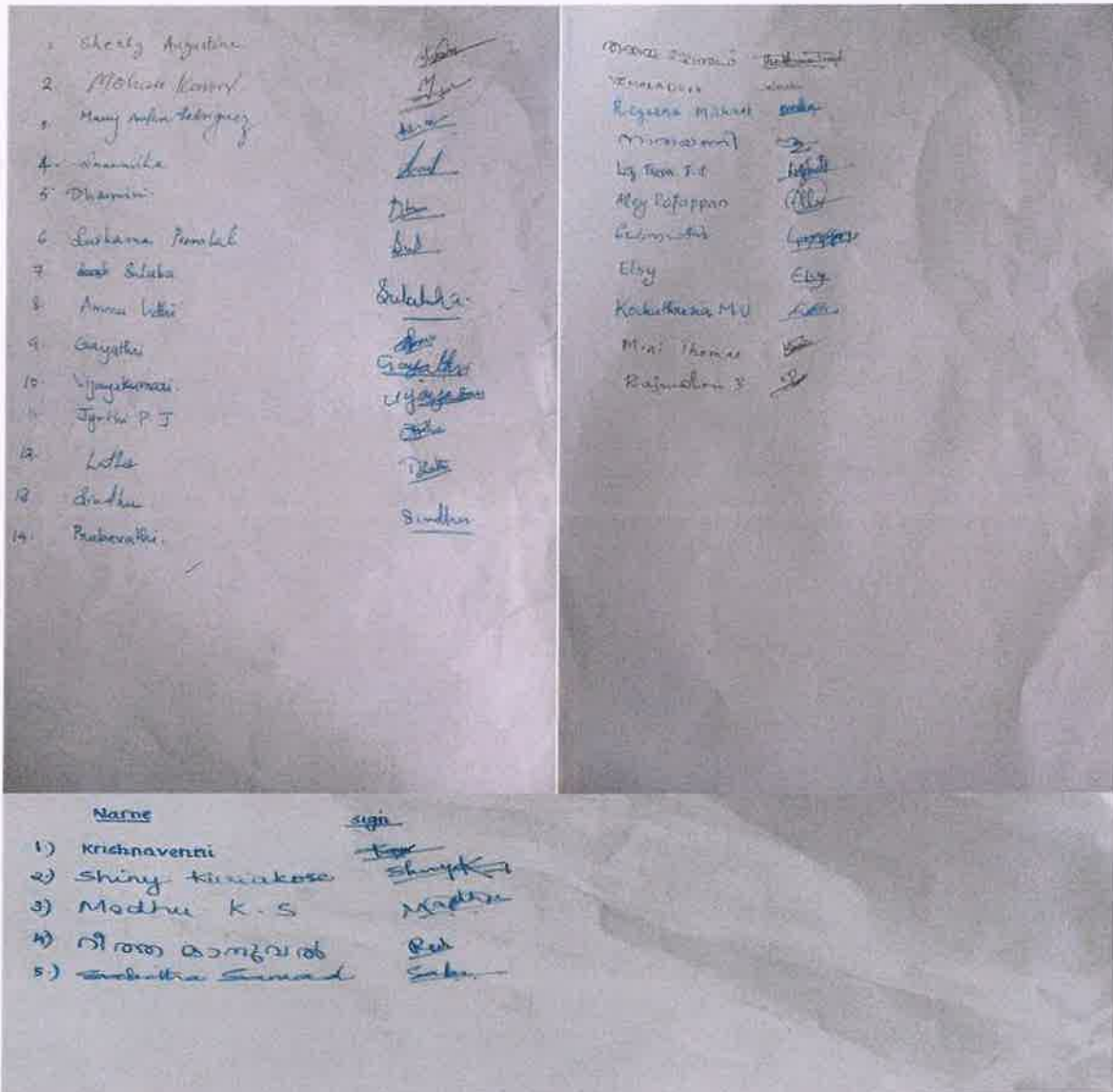




Student teachers from St. Joseph College of Teacher Education for Women, Ernakulam visiting various household in Kacheripady Ernakulam as part of energy conservation campaign.

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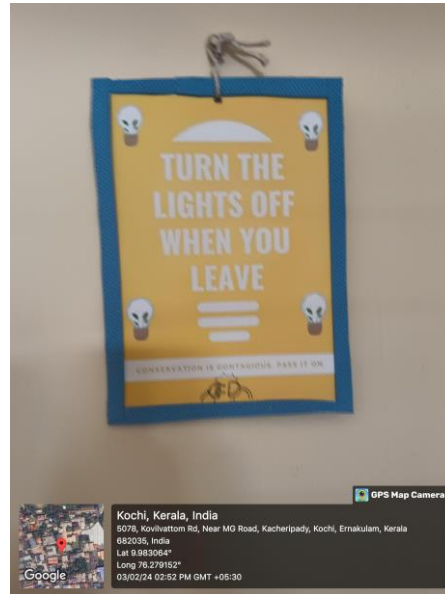
Signatures of household members in Kacheripady, Ernakulam who were the beneficiaries of the energy conservation campaign, 2022 organised by St. Joseph College of Teacher Education for Women, Ernakulam

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Sign Boards





Prospective Teachers take up Research in Sustainable Practices for Green Culture



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List of Students in Charge of checking the Electric and Electronic Equipment's are switched off on leaving the classroom

Year	Programme	Optional Class	Name of the student	
			1 st Year	2 nd Year
2022 to 2023	B.Ed	English	Leenu Merin Thomas	F Merline Rodrigues
		Malayalam	Aleena Stephen	Shilpa K
		Mathematics	Indhu K	Jomol Babu
		Physical Science	Arunima	Fathimathuzuhra
		Natural Science	Meera Sankar	Merin Shajan
		Social Science	Anagha Mary	Krishnapriya K
	M.Ed	Aiswarya Jolly	Bilby Thomas	
2021 to 2022	B.ED	English	F Merline Rodrigues	Josna Joy
		Malayalam	Shilpa K	Athira Babu
		Mathematics	Jomol Babu	Alvina Carmel
		Physical Science	Fathimathuzuhra	Aneetta Joy
		Natural Science	Merin Shajan	Rosaliya George
		Social Science	Krishnapriya K	Sreejtha A K
	M.Ed	Bilby Thomas	Naseeha Nazeer	



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Year	Programme	Optional Class	Name of the student	
			1 st Year	2 nd Year
2020 to 2021	B.Ed	English	Josna Joy	Devika S
		Malayalam	Athira Babu	Athira MM
		Mathematics	Alvina Carmel	Asha Joseph
		Physical Science	Aneetta Joy	Ann Mary Jose
		Natural Science	Rosaliya George	Greetta James
		Social Science	Sreejitha A K	Anju Tomy
	M.Ed	Naseeha Nazeer	Nijitha P Joseph	
2019 to 2020	B.ED	English	Devika S	Sandra Maria
		Malayalam	Linet Maria	Biyamol Austine
		Mathematics	Asha Joseph	Ansina A
		Physical Science	Ann Mary Jose	Anna Peter
		Natural Science	Greetta James	Lisanta Sivan
		Social Science	Anju Tomy	Jaymol B
	M.Ed	Nijitha P Joseph	Sree Vidhya Radhakrishnan	



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**List of Students in Charge of checking the
Electric and Electronic Equipment's are switched off on leaving the classroom**

Year	Programme	Optional Class	Name of the student	
			1 st Year	2 nd Year
2018 to 2019	B.Ed	English	Josna Joy	Devika S
		Malayalam	Athira Babu	Athira MM
		Mathematics	Alvina Carmel	Asha Joseph
		Physical Science	Aneetta Joy	Ann Mary Jose
		Natural Science	Rosaliya George	Greetta James
		Social Science	Sreejtha A K	Anju Tomy
	M.Ed		Naseeha Nazeer	Nijitha P Joseph



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