

# National Science Day Celebrations-2020

## REPORT

Title of the Programme:

**KSCSTE Sponsored National Science Day Celebrations-2020**

**Focal Theme: Women in Science**

**Name of the Coordinator:**

Abdul Bari KK,  
Assistant Professor,  
Department of Microbiology

**Name and Address of the Institute:**

Pazhassiraja College  
Pulpally P. O.  
Wayanad

Date: 20<sup>th</sup> February 2020.

(Programme schedule is attached)

### Description of the Programme

Two events were organized by the Department of Microbiology in order to observe the National Science Day 2020.


#### A. Quiz Competition

Venue: Chithrasala (Audio Visual Theatre, Pazhassiraja College)

Date & Time: 20/02/2020, 10.30 am

Theme of the quiz: Women in Science and Development.

A total of 10 teams, each team comprises two members, participated the programme. Students from all the departments of Pazhassiraja College engaged in this event with great enthusiasm. A good number of spectators from the Departments of Microbiology and Biochemistry flourished the occasion. The team from the Department of Biochemistry secured the first place and students from Mass communication reached at second position. The quiz programme was controlled by

  
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the students of second year Microbiology and monitored by Ms. Smitha Chacko, Assit. Professor, Dept of Microbiology.

## **B. Invited lecture**

Venue: Chithrasala (Audio Visual Theatre, Pazhassiraja College)  
Date & Time: 20/02/2020, 10.30 am

Topic: Applications of Bioinformatics in Biological Sciences.

### **1. Inaugural Session**


The official inauguration was done by the chief guest **Dr. Merlyn Lopus, Post Doctoral fellow, MSSRF, Wayanad.** Principal, Dr. Anilkumar K, delivered the presidential address and the programme coordinator Mr. Abdul Bari did the welcome note. Fr. Varghese Kollamavudy (CEO, Pazhassiraja College), Fr. George Alummuttil (Bursar, pazhassiraja College) and Dr. Jomet Sebastian (HoD, Biochemistry) felicitated the programme.

Students from Microbiology and Biochemistry Departments attended and greatly motivated by the inspiring speech by Dr. Merlyn. She encouraged the young students especially the majority of the girls who filled the seats in the hall by sharing her story. 'There is no barriers for dreams and it is the decision of each girl and women whether to continue with her career after getting married or being a mother', she also added that a mother must be a model for her children particularly if she has a daughter. Ms. Smitha Chacko delivered the vote of thanks and the session participants were directed for tea break.

### **2. Invited lecture: Applications of Bioinformatics**

The session was chaired by Dr. Dinesh M. D., Asst. Professor, Department of Microbiology. He introduced the speaker Dr. Merlyn to the audience. She explained the computer tools and techniques employed in biological studies. Various online and offline softwares were demonstrated for sequence and structure related analysis. The importance and future applications of such techniques were discussed with much interesting questions from the students.

The session ended by the active involvement of students through various questions and discussions thereafter.

  
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Teachers and Students from lifescience departments attended the presentation and finally the closing ceremony was started by 4.pm. Principal handed over the memento and certificate to Dr. Merlyn. The cash prize for the winners in the quiz competition conducted were presented by Dr. Merlyn. The vote of thanks for the session was delivered by Dr. Dinesh and the programme was ended by 4.30pm.

## **Details of Resource Person**

### **Complete Academic Profile**

**Dr. Merlin Lopus**

Post Doctoral Fellow

Community Agrobiodiversity Center

E-mail: merlinlettizha@gmail.com

M. S. Swaminathan Research Foundation,

Mobile: +918078337530

Wayanad, Kerala, India 673577

DOB: 23/05/1987, 32 years

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### **A. Education**

- PhD in Bioinformatics from VIT University, Vellore, India - 2017
- M. Tech in Bioinformatics, Sathyabama University, Chennai, India - 2010
- B. Tech in Biomedical Engineering, Bharath University, Chennai, India - 2008


### **B. Professional Experience**

**Post Doctoral Fellow** - Community Agrobiodiversity Center, MSSRF, Wayanad, Kerala, India (June 2019 to present)

**Project Coordinator**- Community Agrobiodiversity Center, MSSRF, Wayanad, Kerala, India (January 2019 to April 2019)

**Assistant Professor**- Rajiv Gandhi College of Engineering, Chennai, India (June 2012 to May 2017)

**Assistant Professor**- Sahrdaya College of Engineering, Thrissur, Kerala, India (June 2010 to August 2011)

  
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### C. Experience in Research Projects

1. 'Analysis of drought, flood tolerance and nutritional properties of traditional rice varieties of Wayanad', sanctioned by Kerala State Council for Science, Technology and Environment (Order No.751/2019/KSCSTE) for a period of 3 years, Amount: 14.18 lakhs INR, **Role: Principal Investigator.** Status: Ongoing
2. 'Assessment of agrobiodiversity loss due to flood in Wayanad and developing conservation strategies,' sanctioned by Kerala Biodiversity Board (file No. 48/33711 2018/KSBB) for a period of 4 months, Amount: 8.4 lakhs INR, **Role: Project Coordinator.** Status: completed

### D. New projects in pipeline

1. 'Analysis of population structure and diversity in indigenous varieties of legumes in Wayanad'. Full proposal currently under review with DST, India for a period of 5 years, **Role: Principal Investigator and Project Coordinator.**

### E. Research guidance

- Have supervised research work of more than 10 Bachelors students

### F. Research Publications

1. **Merlin Lopus**, D. Meshach Paul and R. Rajasekaran (2016). Unraveling the Deleterious Effects of Cancer Driven STK11 Mutants Through Conformational Sampling Approach, *Cancer Informatics*, Vol. 15, pp. 35-44.
2. Prajeesh Tomy, **Merlin Lopus**, Rajasekaran (2018), Identifying the Deleterious Effects of Cancer Driven Mad1, BRAF and STK11 Mutants through Conformational Sampling Approach, *Journal of Bionanoscience*, Vol. 12, pp. 1-8.
3. **Merlin Lopus** and R. Rajasekaran (2014). Exploring the Missense Mutation Impact on STK11 which Cause Peutz-Jeghers Syndrome by Computational Analysis, *International Journal of ChemTech Research*, Vol.6, No.2, pp 1251-1267.
4. **Merlin Lopus** and R. Rajasekaran (2013). In silico Analysis of Detrimental Missense Mutations in P110  $\alpha$  that Cause Cancer, *Journal of Bionanoscience*, Vol. 7, pp. 1-8.
5. **Merlin Lopus**, P. Chandrasekaran, K. Sreevishnupriya, R. Rajasekaran, K. Ramanathan

Principal Investigator  
Pazhassi Raja College  
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and Shanthi (2013). Computational Approach to Explore the Functional Missense Mutations in the Spindle Check Point Protein Mad1, *Frontiers in Biology*, Vol. 8, No.6, pp. 618-625.

6. Jagannathan, **Merlin Lopus**, Kukku Thomas (2014). Ambulatory Wireless Monitoring of Tremors in Patients with Parkinson's Disease, *Middle East Journal of Scientific Research*, Vol. 20 Issue 12, p1894.

#### G. Research articles currently under review in international journals

- **Merlin Lopus**, Suja George, Binesh, Dileep, K. Characterization of Drought Responsive Genes of CIPK and CDPK Families in Rice, Maize and Sorghum, Currently under review in 'Indian Journal of Biotechnology'.
- **Merlin Lopus**, Suja George. Comparative analysis of drought responsive calcium sensor genes by using conformation sampling approach; currently under review in 'Molecular Biology'.

#### H. Editor/Reviewer

- Editorial Board member, Computational Biology and Bioinformatics (CBB)

Number and Details of the Participants

A total of 95 students attended the programme.

The students belongs to Department of Microbiology, Biochemistry , Food Science and Agriculture of Pazhassiraja College.

  
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# NATIONAL SCIENCE DAY

Celebration - 2020



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Applications of  
Bioinformatics

Dr. Merin Lopus

Post Doctoral  
Research Fellow-  
MSSRF, Wayanad

Focal Theme:

**WOMEN  
IN  
SCIENCE**

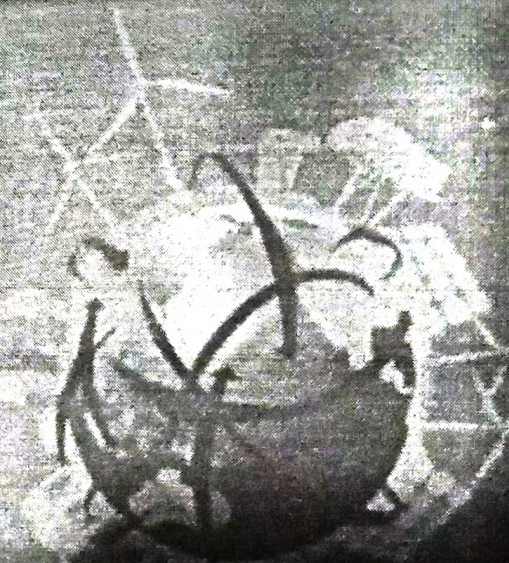
Interdepartmental  
quiz competition  
Theme on 'Women  
in Science and  
Development'



20<sup>th</sup> Feb  
2020

PAZHASSIRAJA  
COLLEGE

Pulpally - 673579,  
Wayanad, Kerala



*AS/MS/12*  
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# National Science Day Celebrations 2020

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## PAZHASSIRAJA COLLEGE

Pulpally P. O., Wayanad.

*Focal Theme: Women in Science*

Date: 20<sup>th</sup> February 2020, Thursday.

9:30 -10.00 Registration:

10:30 am to 12:30 pm Quiz competition

Theme : Women in Science and Development

Venue : Chithra sala

Faculty in charge : Ms. Smitha Chacko (Assistant Professor, Microbiology)

2:00 pm Inaugural session:

Prayer : Harishma P. H. (Student, IV semester B. Sc. Microbiology)

Welcome speech : Mr. Abdul Bari K. K. (Coordinator and HoD, Microbiology)

Presidential address : Dr. Anilkumar K. (Principal, Pazhassiraja College)

Inauguration : Dr. Merin Lopus (Post Doctoral fellow, MSSRF, Wayanad)

Felicitations

: Fr. Varghese Kallumavady (CEO, Pazhassiraja College)

: Fr. George Akkumattil (Bursar, Pazhassiraja College)

: Mrs. Thana Philip (Director, self financing programmes)

: Dr. Janet Sebastian (HoD, Biochemistry)

2:30pm to 4: 00pm Lecture Session:

**Dr. Merin Lopus (Post Doctoral fellow, MSSRF, Wayanad.)**

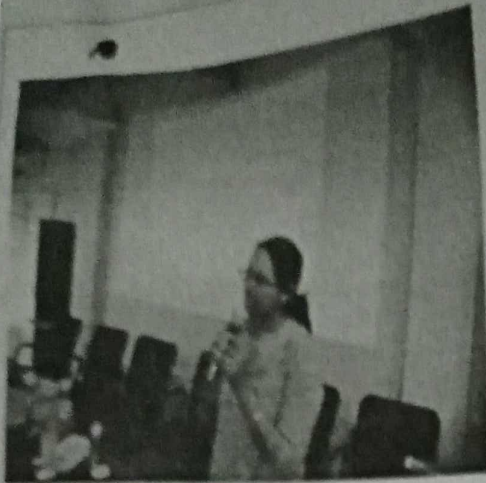
**Topic : APPLICATIONS OF BIOINFORMATICS**

Vote of thanks: Ms. Vijaya M. C. (Assistant Professor, Microbiology)

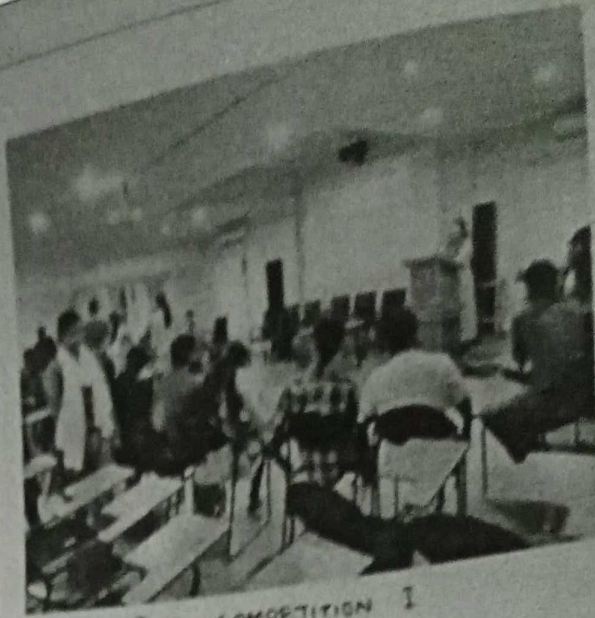
Principal

Pazhassi Raja College

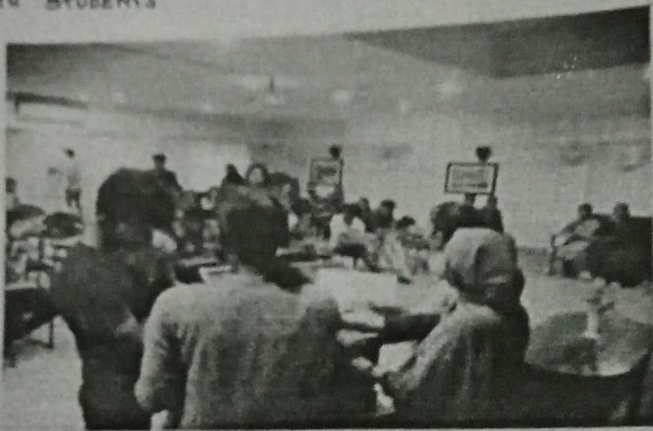
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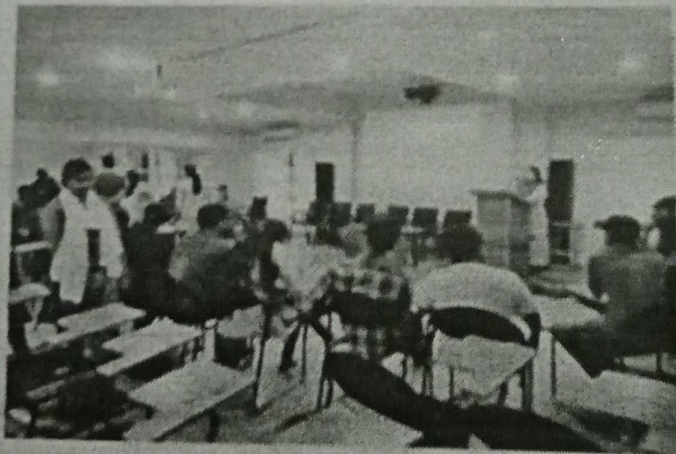
INTERACTION WITH STUDENTS



QUIZ COMPETITION I

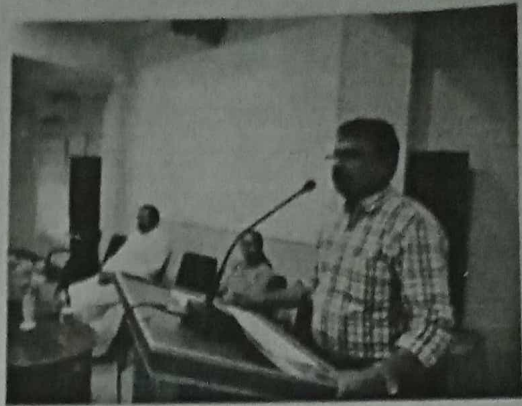
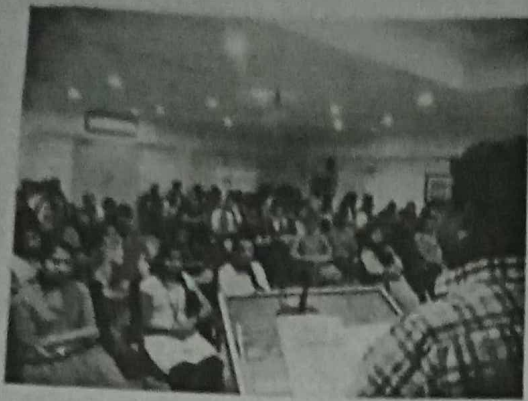


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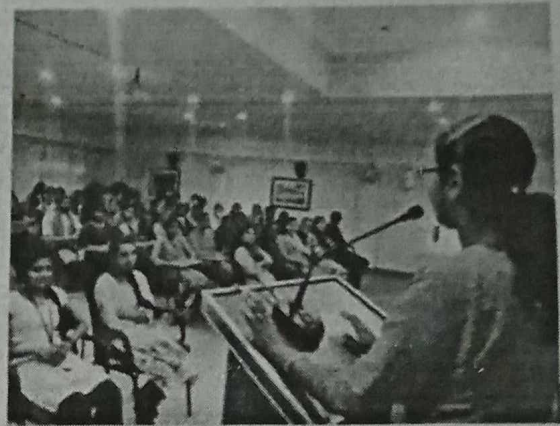
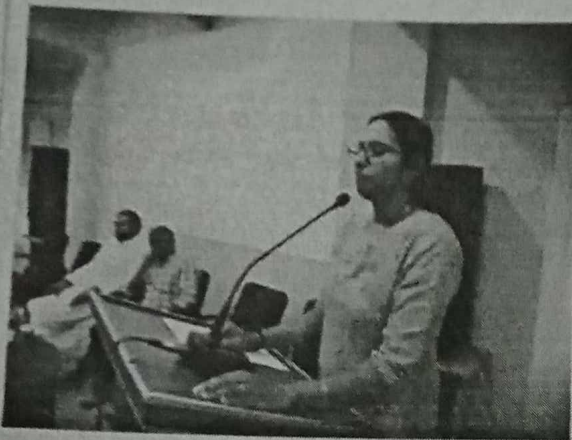


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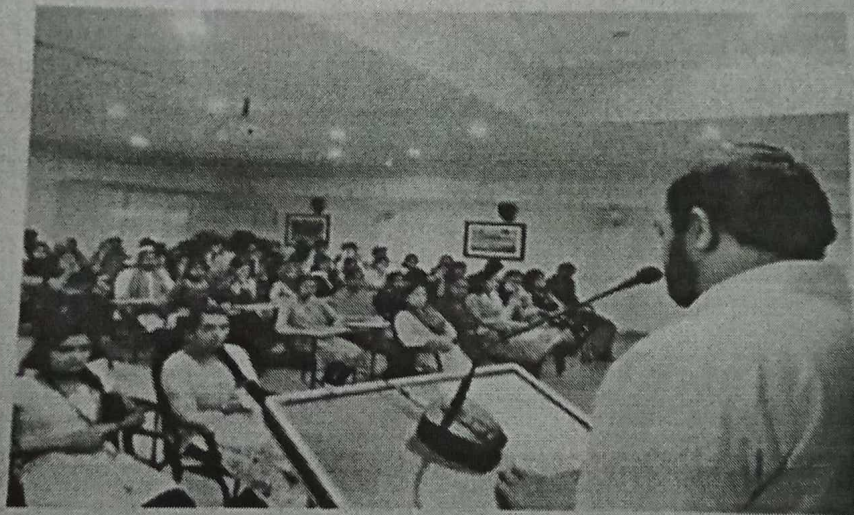




PRESIDENTIAL ADDRESS BY PRINCIPAL



INVITED LECTURE BY DR. MERLIN LOPEZ



FELCITATION BY BURSAR

*AS 15/12*  
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# National Science day celebration - 2020

1)	Anaswaa Santhosh	MB <sub>2</sub>	
2)	Ajal Shaji	MB <sub>2</sub>	
3)	Sanoop	MB <sub>2</sub>	
4.	Minalachana	MB <sub>2</sub>	
5	Angel Mary Baroo	MB <sub>1</sub>	
6	Anna Mariya Stanley	MB <sub>1</sub>	
7	Linina John	MB <sub>1</sub>	
8	Smika	MB <sub>1</sub>	
9.	Sumayya	MB <sub>1</sub>	
10.	Pravitha T.M	MB <sub>1</sub>	
11	Kaishoredu M.U	MB <sub>1</sub>	
12.	Aleena Pomy	MB <sub>1</sub>	
13	Aparna Rebecca Baby	MB <sub>2</sub>	
14	Aaina	MB <sub>2</sub>	
15.	Gayathri .E.S	MB <sub>1</sub>	
16.	Gayathri Krishnan	MB <sub>1</sub>	
17.	Harishma P.H	MB <sub>2</sub>	
18	Aswathi. AA	"	
19	Aparna .K .P	MB <sub>2</sub>	
20	Anamol Jose	"	
21	Gopika .K.	"	
22	Harishma P.C	"	

23 Alexe Lawrence

MB1

Alexe

24 Sarun. T.B

MB1

Sarun

25 Shikhi. P.V

MB1

Shikhi

26 Babitha Balan

MB2

Babitha

27 Muhsina K.M

"

Muhsina

28 Rishana.P.B

"

Rishana

29. Sreya Sunil

"

Sreya

30 Aaya. ps

MB2

Aaya

31 Aiswarya Gopi

MB2

Aiswarya

32 Aswathi.A.P

"

Aswathi

S. S. S.  
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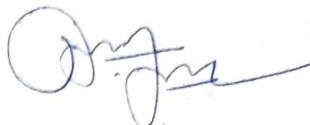
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MB1

AA. S. S. S.

T. S. S. S.

# National Science day celebrations - 2020

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|----|------------------|-----------------|---|
| 1. | Nandhu Narayanan | MB <sub>3</sub> |  |
| 2. | Shabla. c        | "               | <u>Shabla</u><br>20/21/2020   |
| 3. | Anjitha A.P      | "               | <u>Anjitha</u>  |
| 4. | Athira P.N       | "               | <u>Athira</u>   |
| 5. | Maya T.R         | "               | <u>Maya</u>   |

- |              |                    |                             |                  |
|--------------|--------------------|-----------------------------|------------------|
| <u>B.Voc</u> |                    |                             |                  |
| 6)           | Nusrath p.k        | II <sup>nd</sup> B.Voc Agri | <u>Nusrath</u>   |
| 7)           | Sherin Mastin      | "                           | <u>Sherin</u>    |
| 8)           | Anchana Divakaran  | "                           | <u>Anchana</u>   |
| 9)           | Sunayya Valiyakath | 1 <sup>st</sup> MSc Micro   | <u>Sunayya</u>   |
| 10)          | Lakshmi . P.7      | "                           | <u>Lakshmi</u>   |
| 11)          | Rumaisath M.P      | "                           | <u>Rumaisath</u> |
| 12)          | Jamsheda . T       | "                           | <u>Jamsheda</u>  |
| 13)          | Jeena Varghese     | "                           | <u>Jeena</u>     |
| 14)          | Vaishnav. SB       | 3 <sup>rd</sup> BSC Micro   | <u>Vaishnav</u>  |
| 15)          | Basil P.S          | MB <sub>3</sub>             | <u>Basil</u>     |
| 16)          | Desin George       | "                           | <u>Desin</u>     |
| 17)          | Athul T. chacko    | "                           | <u>Athul</u>     |
| 18)          | Adharsh Narayanan  | MB <sub>3</sub>             | <u>Adharsh</u>   |
| 19)          | Nirmal Saji        | "                           | <u>Nirmal</u>    |
| 20)          | Sivaja . S . D     | "                           | <u>Sivaja</u>    |
| 21)          | Nanditha . T.R     | "                           | <u>Nanditha</u>  |
| 22)          | Beethu Mathew      | "                           | <u>Beethu</u>    |

23. Soosya. C.S	MB3	<del>Soosya</del>
24. Sneha. K.S	MB3	<del>Sneha</del>
25. FATHIMA NESREENA.A	MB2	<del>Fathima</del>
26. SONA Saji	MB2	<del>Sona</del>
27. Hima Paahana	MB2	<del>Hima</del>
28. Maria Mathew	MB2	<del>Maria</del>
29. Vijin		<del>Vijin</del>
30. Arhul. T. Chacko	MB3	<del>Arhul</del>
31. Sneetha. A.S	"	<del>Sneetha</del>
32. Ashna Sabu	"	<del>Ashna</del>
33. Anitta Rose John	B.Voc Agri-2	<del>Anitta</del>
34. Subash P.S	"	<del>Subash</del>
35. Vishnu Appu	"	<del>Vishnu</del>
36. Sambhu Jayardhan	"	<del>Sambhu</del>
37. Sana Thasni. K.P	"	<del>Sana</del>
38. Sneetha. P.T	"	<del>Sneetha</del>
39. Anupriya Anil	"	<del>Anupriya</del>
40. Megha Rajesh	"	<del>Megha</del>
41. Aparna. K.V	"	<del>Aparna</del>
42. Nayana T.S	"	<del>Nayana</del>
43. Anusree K.S	"	<del>Anusree</del>
44. Jojivaraghese	"	<del>Jojivaraghese</del>
45. Eldo K.S	"	<del>Eldo</del>
46. Vishnu N.S	B.Voc Jovel science II <sup>nd</sup> year	<del>Vishnu</del>
47. Yada Krishnan CP	II <sup>nd</sup> BTM	<del>Yada</del>
48. P. Thomas	"	<del>Thomas</del>

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Pazhassi Raja G.  
Pulpally, Pin 68

National Science day celebration - 2020

Basil PM

2 Abhinav Johnson

3 Egothul A

4 Sai Sreeraj K

5 Ayda Aspin Abraham

6 AJAY DAS

7 → Alex Lawrence

8 Shikha PV

9] Sarun T.B

10) Niza Shehin B.Voc

11) Ramessa "

12) Aesha V Eldho "

13) RASMINA BMECAgri

14) NAFIAH "

15) RINU "

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