

N.S.S COLLEGE NEMMAR

DEPARTMENT OF PHYSICS

Annual report of Departmental Activities 2018-19

Department secured a pass percentage of 97 in BSc Physics during the academic year 2018-19. All the students of the Department has completed their BSc project inhouse itself. All the faculty members of the department guided the projects and helped the students with their presentation.

PUBLICATIONS

1. Comparative study of the structural and magnetic properties of alpha and beta phases of lithium ferrite nanoparticles synthesized by solution combustion method, Thomas, Nygil; Shimna, Thooneri; Jithin, PV; Sudheesh, V D; Choudhary, Harish Kumar; Sahoo, Balaram; Nair, Swapna S; Lakshmi, N; Sebastian, Varkey T, Journal of Magnetism and Magnetic Materials,2018, 0304-8853
2. Synthesis of nanocrystalline spinel ferrite (MFe_2O_4 , $M= Zn$ and Mg) by solution combustion method: influence of fuel to oxidizer ratio, Sudheesh, V D; Thomas, Nygil; Roona, N; Choudhary, Harish; Sahoo, Balaram; Lakshmi, N; Sebastian, Varkey, Journal of Alloys and Compounds,2018, 0925-8388

A ZONE ACHIEVEMENTS



Vyshnavi R Menon

3rd Painting

- Vishnu B 2nd position Light Music and Kolkali

Sports

- 1st Kerala State Men and Women Under-23 Wrestling Championship Roshni M
- District Youth Volleyball championship
Harish H
- State Youth Volleyball championship Harish H
- Calicut University Volleyball Championship Harish H
- C- Zone Volleyball Championship
H Harish
- Annual Sports& Games Roshni M

PLACEMENT/HIGHER STUDIES

- 1.Darsana V , passed out in 2018 has joined ICICI bank

N.S.S COLLEGE NEMMARA
DEPARTMENT OF PHYSICS
Annual report of Departmental Activities 2019-20

Department secured a pass percentage of 90 in BSc Physics during the academic year 2019-20. All the students of the Department has completed their BSc project inhouse itself. All the faculty members of the department guided the projects and helped the students with their presentation.

Apart from this, faculty members of the department have signed collaborations for sharing research and academic knowledge. The activities include supervising post graduate and graduate students for their Project, conducting collaborative programmes and conducting capacity building workshops. The present academic year, Dr. Rajesh R has signed a collaboration with Department of Physics, Yuvakshetra Institute of Management studies, Mundur. Dr. Rajesh R has given an invited lecture at Yuvakshetra college on the topic “From Galaxies to Quarks” on 18.12.2019 at 10 am .

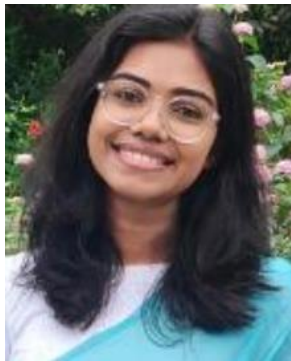


Dr. Haripadmam P C, Assistant Professor of the department has supervised an M Sc project and the student , Thanuja T H was from NSS College Ottapalam. The work was entitled as “Development of C. Redflash dye doped PVA films for photonic applications”. Thanuja T H has got ASPIRE scholarship from the Department of Collegiate Education for the same work.

Publications

1. Magnetic properties of $MFeCrO_4$ ($M= Co/Ni$) prepared by solution combustion method, Thomas, Nygil; Sudheesh, V D; Choudhary, Harish Kumar; Sahoo, Balaram; Nair, Swapna S; Lakshmi, N; Sebastian, Varkey, Journal of Superconductivity and Novel Magnetism, 2019, 1557-1947

University Rank



Gopika S

5th Rank

A ZONE PARTICIPATION AND ACHIEVEMENTS

- Kavya Jayan- Light Music 3rd prize

Sports

- 5th Junior District Netball Championship

Athul Prakash J



- 32nd Kerala State Junior Netball Championship Athul Prakash J
- 5th Senior District Netball Championship Athul Prakash J and C V
Ajayakumar
- C- Zone Volleyball Championship Harish H
- District Youth Volleyball championship Harish H
- Calicut University Volleyball Championship Harish H
- Inter College Sepaktakraw Championship Athul Prakash J and C V
Ajayakumar

PLACEMENT/HIGHER STUDIES

1. 9 students have joined for MSc programme

N.S.S COLLEGE NEMMARA
DEPARTMENT OF PHYSICS
Annual report of Departmental Activities 2020-21

Department secured a pass percentage of 94 in BSc Physics during the academic year 2020-21. All the students of the Department has completed their BSc project inhouse itself. All the faculty members of the department guided the projects and helped the students with their presentation.

Department conducted a talk on Forensic Physics on January 2021 for all BSc Physics students by Anupama K, Scientific Officer Physics, District Forensic science Laboratory, Palakkad on Examination and Comparison procedures of various physical evidence based on their physical attributes.



Dr. Haripadmam P C has supervised an M Sc project and the student, Nimisha M M was from NSS College Ottapalam. The work was entitled “Investigation of Optical properties of green synthesized Carbon dots”. The student is awarded ASPIRE scholarship by the Department of Collegiate Education during 2020-21.

Publications

1. Nonlinear optical absorption in PVA films doped by the novel natural dye extract from C. redflash leaves, PC Haripadmam, TH Thanuja, GS Varsha, CD Beryl, Alexander Aji, Optical Materials, 2021, 0925-3467

UNIVERSITY RANK

- Gana K G – 5th Rank



SPORTS

- Inter College Volleyball Championship Adharsh P



Adarsh P

- Inter College Sepaktakraw Championship

1. Athul Prakash J



2. C V Ajayakumar

PLACEMENT/HIGHER STUDIES

1. 7 students joined MSc programme and 1 student was placed in a software company

N.S.S COLLEGE NEMMARA

DEPARTMENT OF PHYSICS

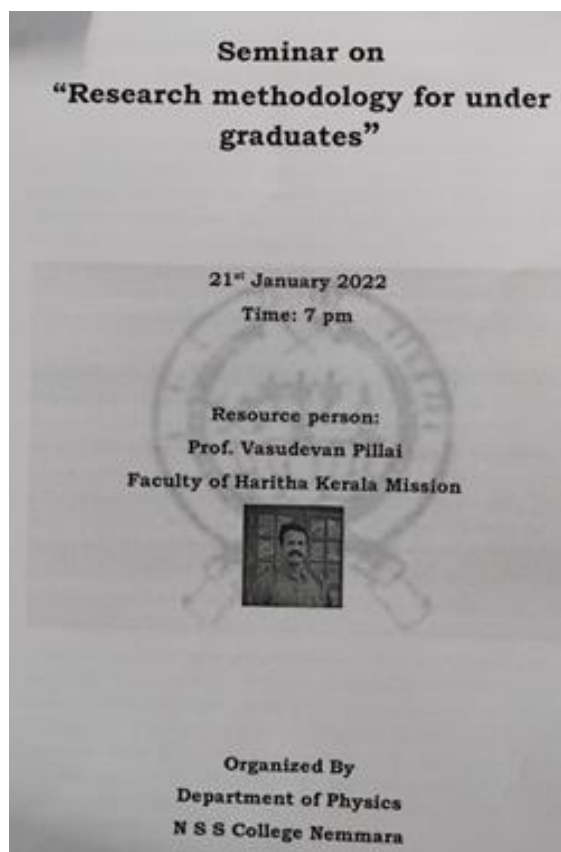
Annual report of Departmental Activities 2021-22

Department secured a pass percentage of 100 in BSc Physics during the academic year 2020-21. All the students of the Department has completed their BSc project inhouse itself. All the faculty members of the department guided the projects and helped the students with their presentation

Department has conducted an Induction Programme for first year BSc students on 01.12.2021, which was aimed to improve research aptitude in physics and to discuss carrier opportunities in physics. Dr Haripadmam P C was the coordinator of the programme.



Department conducted a seminar in association with Haritha Kerala Mission on 21.1.2022 for final Year BSc chemistry students to prepare their research project. Online demonstration classes were carried out by Dr Vasudevan Pillai, Faculty of Haritha Kerala Mission on the topic Research Methodology for Under Graduates.



Dr. Haripadmam P C has supervised an M Sc project and the student, Jumna Haneefa M was from NSS College Ottapalam. The work was entitled “Green synthesis and characterization of silver Nanoparticles from Magnolia champaca flowers”

DEPARTMENTAL ACHIEVEMENTS

Publications

1. All the students of the Department has completed their BSc project inhouse itself. All the faculty members of the department guided the projects and helped the students with their presentation, PC Haripadmam, C Beryl, Reji Philip, Journal of Electronic Materials,2022, 0361-5235
2. Green synthesis and characterisation of rice water derived fluorescent carbon dots, Haripadmam P C, Nimisha M M, Advances in Natural Sciences: Nanoscience and Nanotechnology,2022, 2043-6262

UNIVERSITY RANK



Vyshnavi R Menon 2021
5th position

SPORTS



Adarsh P
1st position C zone Volleyball (2021-22)
2nd position C zone volleyball (2022-23)



Athul Prakash J
1st position Kerala state Olympics
netball
Championship(2021-22)
Inter college volleyball champion ship
QF (2021-22)



1st position Kerala state Olympics
netball
Championship(2021-22)
Inter college volleyball champion ship
QF (2021-22)

PLACEMENT/HIGHER STUDIES

1. 6 students joined MSc programme.

N.S.S COLLEGE NEMMARA
DEPARTMENT OF PHYSICS
Annual report of Departmental Activities 2022-23

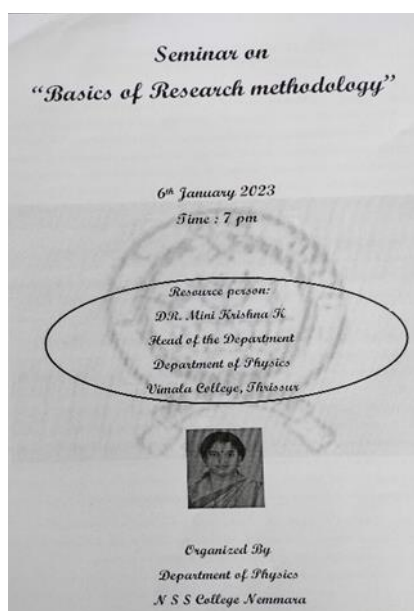
Department secured a pass percentage of 88 in BSc Physics during the academic year 2021-22.

Department conducted an Induction Programme for first year BSc students on 01.12.2022, which was aimed to improve research aptitude in physics and to discuss carrier opportunities in physics. Dr Haripadmam P C was the coordinator of the programme.

Department conducted an energy awareness program in association with KSEB on 20.10.2022 for all students of college.

Department conducted a career guidance program on December 2022, which aimed to help the students to select their career plans.

Department conducted a seminar in association with Vimala College, Thrissur on 06.01.2023 for final Year BSc Physics students to prepare their research project. Online demonstration classes were carried out by Dr Mini Krishna K, faculty of Vimala College, Thrissur on the topic “Basis of Research Methodology”.



Apart from this, faculty members of the department have signed collaborations for sharing research and academic knowledge. The activities include supervising post graduate and graduate students for their Project, conducting collaborative programmes and conducting capacity building workshops. The present academic year, Dr. Haripadmam P C has signed a

collaboration with Department of Physics, Yuvakshetra Institute of Management studies, Mundur. BSc. Students of the later department came to the department and done their BSc project here. Also Dr. Haripadmam P C has given an invited lecture at Yuvakshetra college on the topic “Natural dyes: Exploration of Nature for Science and Technology” on 23.01.2023 at 10 am .



DEPARTMENTAL ACHIEVEMENTS

UNIVERSITY RANKS



Nayana K 2022
10th Position

SPORTS



Pranav P
3rd Position C Zone cricket (2022-23)



Adarsh P
1st position C zone Volleyball (2021-22)
2nd position C zone volleyball (2022-23)



NCC ACHIEVEMENTS

SURESH KUMAR R, 2022-23

SELECTED TO ARMY ATTACHMENT CAMP
TRIVANDRUM



PLACEMENT/HIGHER STUDIES

1. 6 students joined MSc programme and 1 student was placed