

Report of Journal Club of Science for the academic year 2019-2020

A brief report of the activities of Journal Club of Science for the academic year 2019-2020 is given below;

The journal club of Bishop Chulaparambil Memorial College was formally inaugurated for the academic year 2019-20 on 05-07-2019. The Journal Club of Science comprises of the faculty belonging to Departments of Mathematics, Statistics, Chemistry, Physics, Zoology, Botany, Food Science and Quality Control, Family and Community Science and Computer Science of the college. The main purpose of this club is to introduce science faculty members and interested students to the world of scientific publications and to familiarize them with world class journals. Every month each department arranges talks by experts on specific relevant topics and there will be a question answer session so that everyone gets a chance to clear their queries from the expert itself. The journal club have so far conducted 7 such sessions in this academic year. As a result of this activity we have seen an increase in student participation for poster presentation, paper publishing etc. The details of the expert sessions conducted by the journal club are as follows,

Date	Speaker	Department	Title
05-07-2019	Mr. Liju Alex	Mathematics	An Introduction To Chemical Graph Theory
09-08-2019	Dr. Stephy thomas	Statistics	Stochastic Modelling using Markov Chains
05-07-2019	Ms. Smitha Joseph	Physics	Design and Characterization of Magnetoresistive Rare Earth Compounds
04-10-2019	Dr. Radhika S.	Chemistry	Design and Development of Highly Efficient Nano Semiconductor Solar Photocatalysts for the Degradation of Persistent Organic Pollutants
15-11-2019	Dr.Peter K Mani	Botany	Biotechnological Investigation on Water Fern <i>Salvinia Molesta</i> Mitch
06-12-2019	Dr. Krishna Priya R	Zoology	Diversity and Chemical Ecology of Endosymbionts in Marine Organisms
10-01-2020	Dr. Arathi A.R.	Zoology	Taxonomy and Diversity of Bivalve Molluscs of Lakshadweep and West Coast India

PUBLICATION DETAILS OF SCIENCE FACULTY DURING 2019-2020

MATHEMATICS- Ms. Anu Varghese, On split graphs with four distinct eigenvalues, *Discrete Applied Mathematics* – Elsevier, September 2019.

PHYSICS- Dr. Elizabeth.V. John, Vibrational modes and overlap matrix of LiNbTaO₃ mixed crystals. *Physical Review B*, 99, 094306, 2019.

PHYSICS . Smitha Joseph Unraveling the effects Of Mn-site doping on structural, magnetic and magnetotransport properties of Nd_{0.67}Sr_{0.33}Mn_{0.9}T_{0.1}O₃ (T= Mn, Fe, Cr, Ni) *Cer. Int.* 45, pages 21249-21262, 2019.

CHEMISTRY - Merlin Thomas, Application of Novel Zinc Oxide reinforced Xanthan gum hybrid system for edible coatings, *International Journal of Biological Macromolecules*, Volume 151, pages 806-813, May 2020.

BOTANY- Vandana P. Nair, Akhila S Viswan, Ethnobotanical Knowledge of Mannan Tribe in Selected Region of Kovilmala, Idukki District, *International Journal of Innovative Science And research Technology*, Vol 5, Issue 2, February 2020.

COMPUTER SCIENCE- Ms. Pretty Joy, Advanced Traffic Management System using Automatic Number Plate Recognition System, *International Research Journal of Engineering and Technology*, Vol 6, Issue 6, June 2019.

ZOOLOGY- Arathi A R, Oliver P.G., Ravinesh R, Siby P and Bijukumar A, Clarification of the taxonomic status of *Paphia malabarica* (Chemnitz 1782) and does it matter?, *Journal of Aquatic Biology and Fisheries*, 7, 155-23, 2019.