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Uppal, Hyderabad

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LEAD TO ILLUMINATE



PHYSICS



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➤ Members Department of Physical Science 2022-23

Faculty Name	Designation	Email-id
MS. Shahjahan begum	HOD	sajahan@lfdc.edu.in

INDEX 2020-2021

SNO	Date	Name of the Event	Venue	Participants
1	27/7/2022 to 01/08/2022	FDP on Robotic Process Automation	St Ann's Degree college for women	1
2	03-08-2022	FIELD TRIP TO TIBCON CAPACITORS	TIBCON capacitors	58
3	17-08-2022	Akshay Urja Diwas-Renewable energy Day	Karunya court	70
4	17-10-2022 to 19-10-2022	MOU' Lecture Series on Schrodinger Wave Equation	Physics Classroom	30
5	10-11-2022	Project Exhibition World science Day	Physics Lab	27
6	15-03-2023	E-Waste Management	D01 Classroom	35



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FACULTY DEVELOPMENT PROGRAM ON ROBOTIC PROCESS AUTOMATION

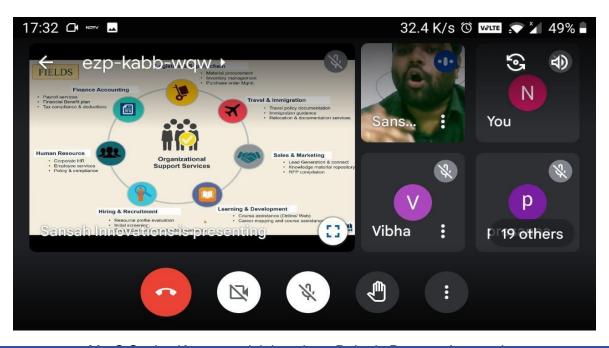
Event: FDP on RPA

Date: 27/07/2022 to 01/08/2022

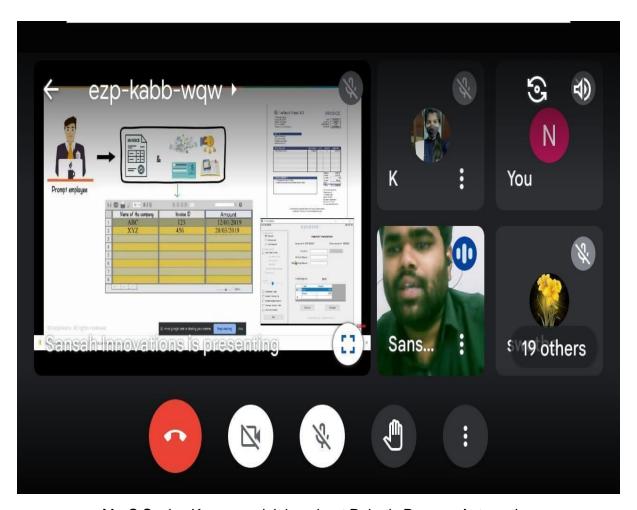
Venue: St Ann's Degree College for Women.

Participants: Faculty (1)

The Faculty Development Programme (FDP) focused on imparting knowledge and practical skills in Robotic Process Automation (RPA) to faculty members. Mr. Sanjay introduced RPA as automating business operations to reduce human intervention, highlighting its applications in Finance, Accounting, Human Resources, and Learning & Development. The program emphasised implementing RPA through an ROI calculator to determine cost-saving potential, demonstrated by Mr. Sanjay using UI Path software. Screen scraping and web scraping techniques were discussed for extracting information from digital displays and websites, respectively. Participants also learned data extraction techniques from Excel sheets, enabling them to read data ranges, organise data into tables, and extract data column-wise or row-wise. Overall, the FDP provided faculty members with comprehensive knowledge and practical skills in RPA, empowering them to integrate automation technologies into their teaching and research activities.







Mr. C Sanjay Kumar explaining about Robotic Process Automation



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FIELD TRIP TO TIBCON CAPACITORS

Event: Field trip Date: 03-08-2022

Venue: TIBCON capacitors Participants: Students (58)

The Faculty of Physics and Electronics organised a field trip to Tibrewala Electronics Ltd, Hyderabad, on 3/8/2022, Students from III MPCS, MPC, MECS, accompanied by faculty members Ms. Nagalakshmi and Ms. Shahjahan Begum, attended the trip. Tibcon Capacitors, a leading manufacturer, showcased their advanced capacitor production process, emphasising safety and environmental consciousness. Plant Engineer Mr. Manohar guided students in groups of 20, detailing the construction of various capacitors like Lighting, PFC, and Oil Filled types, along with their applications. Students observed the manufacturing, assembly, testing, logo labelling, and packaging processes, gaining insights into capacitor production and utilisation. This immersive experience enhanced students' understanding of capacitor technology and its real-world applications.





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Group photos of final year students at TIBCON capacitors



Mr. Manohar explaining about various capacitors to students



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AKSHAY URJA DIWAS - RENEWABLE ENERGY DAY

Event: Signature campaign

Date: 17-08-2022

Venue: Karunya Court Participants: Students (70)

The Faculty of Physics orchestrated a dual event on Akshay Urja Diwas (Renewable Energy Day) on 17/8/22, comprising a signature campaign and Poster Presentation Competition. Faculty and students united in the signature campaign, vowing to conserve energy. Meanwhile, students from III (MPCS, MPC) and II (MPCS, MPC) showcased their creativity in the poster presentation, focusing on energy conservation. The overarching goal was to instil awareness about energy conservation, emphasising the pivotal role of efficient energy usage in combating climate change and enhancing environmental well-being. Participants pledged to embrace energy efficiency practices and transition towards renewable energy sources, championing sustainable development. Through these endeavours, the event aimed to catalyse a collective commitment towards a greener and more sustainable future.



Lecturers participating in signature campaign and taking pledge to save energy





REV. Bro. Vincent Reddy participating in signature campaign



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MOU LECTURE SERIES ON SCHRODINGER WAVE EQUATION

Event: Mou Lecture series
Date: 17-10-2022 to 19-10-2022
Venue: Physics Classroom
Participants: Students (30)

The Faculty of Physics has organised a 3-day lecture series for III BSc (MPC & MPCs) students on Schrodinger wave equation in collaboration with Nirmala college, Ranchi from 17th October, 2022 to 19th October, 2022.

Mrs. Sumit Kau, faculty of Nirmala college, Ranchi explained the fundamentals of Quantum Theory and importance of Schrodinger Time Dependent and Schrodinger Time Independent Equations. Mam has explained how the Schrodinger wave equation gives us the detailed account of the form of the wave functions or probability waves that control the motion of smaller particles. She also explained how this equation is used to calculate the energy and wave function of a particle such as an electron in a one- dimensional box. Students participated actively and understood the concept and importance of Schrodinger wave equation.







Mrs Sumit Kau, Faculty, Nirmala college Ranchi explaining Schrodinger's time independent equation.



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PROJECT EXHIBITION WORLD SCIENCE DAY

Event: Project Exhibition

Date: 10-11-2022 Venue: Physics Lab

Participants: Students (27)

The Faculty of Physics has organised a project exhibition on World Science Day i.e., on 10/11/2022. 12 projects were displayed in this exhibition among which five projects are from first year, five from second year and two from final year. All the students showcase their talent in this exhibition.

All the projects were reviewed by lecturers from little flower junior college and scrutinised 3 best projects among all the 12 projects.



Vivek and CH. Ganesh explaining carbide gun



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Tejasvi and Mohan explaining water level indicator



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SEMINAR ON E - WASTE MANAGEMENT

Event: Seminar Date: 15-03-2023

Venue: D01 Classroom

Participants: Students (35)

A one-month awareness drive on E-waste was conducted by the Faculty of Electronics and Physics from 10th February,2023 to 10th March,2023 in the Little Flower campus. The main objective of the drive was to create awareness among the students about the importance of identifying and disposing of Electronics waste.

posters were set up across the campus (school, junior college as well as degree college) and bins were provided. The posters contained information on the waste materials that were to be dumped into the bins.

At the end of the drive, a seminar on E-waste processing was also organised. Mr. Donald from Earth Resense PVT. Limited has shown a video on various stages of recycling the E-waste at their unit and explained how serious is the problem of Electronic Waste and importance of its management in modern days.



Showing how E-waste is Recycled at Earth Sense Recycle PVT.LTD





Mr. Donald explaining about E-Waste disposal to students.



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INTRA COLLEGIATE QUIZ ON SCIENTISTS AND THEIR INVENTIONS

Event: QUIZ

Date: 15-03-2023

Venue: I21

Participants: Students (50)

The Faculty of Physics conducted Intra Collegiate Literary competitions on the topic "QUIZ-INVENTIONS AND DISCOVERIES IN SCIENCE" on 03/11/22. 25 groups from different classes participated.

Winners of the quiz competition:

Position 1:

k. Sai Niharika (BTMC III) and Aakash (MPC III)

score: 32/50

Position 2:

Spencer (BCOM CA III) and Anokh (BCOM CA III)

Score :27/50

Position 3:

T. tharun (MPCS II) and P. tharun (MPCS II)

Score :25/50





Quiz on scientist and their inventions



Students Identifying the scientist display