DEPARTMENT OF PHYSICS & ELECTRONICS

Departmental Activities

2022 – 23

Educational visits organized by the Department

S.No.	Name of the Event	Date	No of beneficiaries	Nature of beneficiaries
1	Visit to Rangapur Observatory	25-2-2023	45	BSc. MPCs, MECs and MSCs
2	Visit to Birla Planetarium for a Public Talk on New Planets by Prof. Mark McCaughrean, Netherlands.	24-01-2023	25	BSc MPCs
3	Educational visit to National Centre for Compositional Characterization of Materials (NCCCM), ECIL, Hyderabad. as a part of "Azadi Ka Amrit Mahotsav (AKAM)"	25-08-2022	5	BSc MPCs I, II & III
4	Visit to ROBOTICS Labs & Project demonstrations at 7S Technologies Pvt. Ltd, Inside Ramoji Film City Building, opposite HPS, Begumpet.	21-05-2022	10	B.Sc(MECs) IIyr

Educational visits organized by the Department

At Rangapur Observatory

Visit to Birla Planetarium

At National Centre for Compositional
Characterization of Materials

At 7S Technologies Pvt. Ltd

Programmes organized by the Department (4)

	Name of the Event	Date	No of beneficiaries	Nature of beneficiaries
1	Guest Lectures were organized as a part of National Science Day-2023 on Importance of Regular science - Dr SreeRam and Dr. Seema Pooranchand	28-02-2023	160	BSc. MPCs, MECs and MSCs
2	Poster presentations as a part of Bhavanotsav-2023	9-02-2023 & 10-02-2023	56	BSc MPCs and MECs students
3	Technovation - An intercollegiate project presentation in collaboration with cluster colleges	9 – 03 – 2023	9	BSc MECs IIIyrs
4	Vyomotsav – an intercollegiate competitions : • Astronaire (Astro Quiz) • Vishwakala (Vyomotsav) • Khagoltarka (Vyomotsav)	25-02-2023	30	BSc MPCs MSCs MECs , BSc MBiC, MGC and B.Com

Programmes organized by the Department

Guest Lectures on National Science Day-2023

Quiz & Posters for Bhavanotsav-2023

Technovation - An intercollegiate project presentation

Vyomotsav

Training/Workshops conducted for students (3)

S. No	Course/ Activity	Dates/ Duration	Title of Program Theme/Topic	Details of Activity/ Speaker/ Resource Person	No of benefic iaries	Nature of beneficiaries
1	Internships	02-05-23 to 17-05-23	PCB Design, Embedded system and IoT	NSIC, Hyderabad	9	B.Sc MECs IIyr
2	One-day workshop	09-03-23	NMR spectroscopy	CFRD, OU organized by BEST society	10	BSc MPCs IIyr.
3	Workshop	03-02-23 & 4-2-23	2 Day workshop on Embedded systems for Robotics & IoT.	Mr. Bipin. S. Gondane, Siddharta Technologies & Services, Yapral	27	BSc. MPCs, MECs and MSCs

Workshop on Embedded Systems for Robotics & IoT

CFRD, Osmania University

Department of Physics & Electronics

Students Achievements (6)

S. No.	Student Name	Programme/ Year of Study	Name of the Event	Date	Achievement
1	V S P Manideepika	BSc. III yr	Technovation - An intercollegiate project presentation	09-03-2023	I Prize
2	G Shruthi, O Sai Akhil, G Bhavana	BSc. II yr		09-03-2023	II Prize
3	G Raghavendra, M Sai Teja, Bishal Shah	BSc. III yr		09-03-2023	Team Technovation award
4	Sarandep Singh & Harsha	Bsc MPCs	Astronaire (Astro Quiz)	25-02-2023	I Prize
5	Sanchi Agarwal & Karthik Nair	B.Com I yr students	Vishwakala (Vyomotsav)	25-02-2023	II Prize
6	Shreya Bhasker & Kalvin	Life sciences students	Khagoltarka (Vyomotsav)	25-02-2023	I Prize

Students Projects (5)

S. No.	Name of the students	Class	Title of the Project
1	V S P Manideepika	B.Sc MECs IIIA	P10 display with webserver
2	G Shruthi, O Sai Akhil, G Bhavana	B.Sc MECs IIA	Implementation of Home Automation System using Android Application
3	K. Varshitha	B.Sc MECs IIIA	Smart Dust Bin
4	G Raghavendra, M Sai Teja, Bishal Shah	B.Sc MECs IIIA	Dual axis Solar Tracker
5	Ch. Pradeep Reddy	B.Sc MECs IIIA	Regulated Power Supply

Outreach Programmes organized (3)

S.No	Theme of the Programme	Venue of the Event	Target Audience	No of Participants	Resource persons	Date of the Event
1	Outreach Programme	Zilla Parishad School, Yapral.	High school students	150	Faculty members V. R. Manjula P. Lavanya and students	07-01-2023
2	Outreach Programme	Physics and Electronics Labs	XI and XII class Students of NASR Boys School, Gachibowli.	9	Faculty members of the Department.	06-01-2023
3	Gyanaprajwalam in collaboration with Dr A.S.Rao awards council	IT Block	High School students from 10 different schools	60	Faculty members of the Department.	17-12-2022

Outreach Programmes organized (3)

XI and XII class Students of NASR Boys School

Gyanaprajwalam

At Zilla Parishad High School, Yapral.

Invited / Guest Lectures (3)

S No	Name	Designation	Date	No. of beneficiaries	Nature of beneficiaries
1.	Science and Engineering aspects of Solar Thermal Processes	Prof. M. Srinivas Professor, BITs Pilani, Hyderabad	13-02-2023	120	B.Sc Physical Science students
2.	Robotics, IoT and Artificial Intelligence	Mr M. Sravan Kumar, Founder & Director, Raibo systems Pvt. Ltd., Madhapur, Hyderabad	09-01-2023	30	B.Sc Physical Science students
3.	Internet of Things	Dr. S. V. Srikanth, Joint Director, C-DAC Hyderabad	07-06-2022	30	B.Sc II yr Physical Science students

Invited / Guest Lectures (3)

Science and Engineering aspects of Solar Thermal Processes   by Prof. M. Srinivas

Robotics, IoT and Artificial Intelligence by Mr M. Sravan Kumar

Training received by faculty (8):

S.No	Name of the faculty	Details of the course	Duration	Institute/organisation
1	Mrs T Sai Santoshi	9-Day Hands on Training on Rietveld Refinement	25-01-2023 to 02-02-2023	SIAS Research Forum
2	Mrs P. Lavanya	Two days National level FDP on Hands on Session on Open Source VLSI Tools	20th & 21st Dec 2022.	School of Electronics Engineering VIT -AP University
3	Mrs M Prasanna	2-Day National level FDP on "Applied Python &IoT with Raspberry Pi"	16th &17th Dec, 2022	Dept. of ECE, JNTUH
4	Mrs P. Lavanya	Completed STTP on "Connecting People to Semiconductor Industry"	05-12-2022 to 17-12-2022	Department of ECE SRM Institute Science & Technology, SRM University, Tamilnadu
5	Mrs M. Prasanna	NPTEL 8 weeks Course on Educational Leadership	Aug-Oct,2022	IIT Kharagpur & Swayam.

Contd..   Training received by faculty:

S.No	Name of the faculty	Details of the course	Duration	Institute/organisation
6	Mrs M. Prasanna, Mrs V.R.Manjula, Mr T Prasad	Mentoring Pedagogy and Classroom Delivery Enhancement Techniques	3th - 10th Aug, 2022	Bhavan's Vivekananda College of Science, Humanities and Commerce E&ICT Academy IIT Guwahati
7	Mrs P.Lavanya	One week National level FDP on Robotic Process Automation,	27-07-2022 to 01-08-2022	St. Ann's College for Women, Hyderabad
8	Mrs V. R. Manjula	One Week online FDP on Recent Trends on Data Analysis in MS Excel	18-07-2022 to 22-07-2022	University of Hyderabad

Departmental Activities
2023-24

Programmes organized by the Department

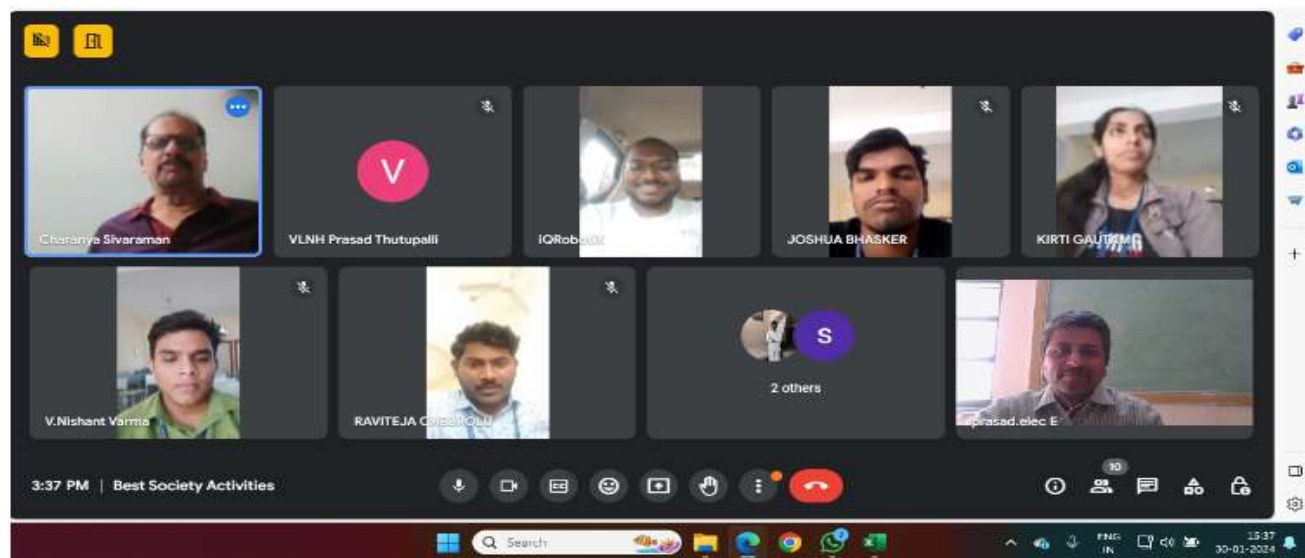| S.No.	Name of the Event	Date	No of beneficiaries	Nature of beneficiaries
1	Visit to Robotics Labs at Ramoji Film City, Hyderabad	23-11-2023	43	BSc Students
2	Equinox An online Intra college event by "Vyoma", The Bhavan's Astronomy Club	22-07-2023		BSc Students
3	Lunar Soiree: An Inter Collegiate Event is organized by "Vyoma": The Bhavan's Astronomy Club and The Department of Physics and Electronics	08-09-23		BSc Students
4	Educational visit to IITM Chennai, IGCAR, Kalpakkam	31-01-2024 to 2-2-2024	62	BSc Students
5	Seminar presentations by the students to the BEST society members	30-01-2024	10	B.Sc(MPCs) IIIyr

Visit to Robotics Labs at Ramoji Film City

Visit to IITM Chennai, Vainu Bappu Observatory

Lunar Soiree: An Inter Collegiate Event is organized by "Vyoma": The Bhavan's Astronomy Club

Seminar presentations by the students to the   BEST society members

Training/Workshops conducted for students (4)

S.No	Course/ Activity	Dates/ Duration	Details of Activity/ Speaker/ Resource Person	No of beneficiaries	Nature of beneficiaries
1	Internship on IoT and ML	12th Jan to 12th Feb 2024	IITK Surathkal & Pantech	4	BSc MECs II yr
2	Robotic Odyssey Workshop of Robotics	21st to 23rd Dec 2023	Mr Ravi Teja, Tejis Technologies Hyderabad.	75	BSc students
3	Value Added Course on IoT with Arduino	18th July 2023 to 4th Aug 2023	Mrs M.Prasanna Mrs Padmapriya Mrs P. Lavanya Mrs M. Amitha	52	BSc students
4	Live model demonstrations by invited Alumnus	19-08-2023	Alumni Connect - Building bridges to success	52	BSc students

Value added course on IoT

IoT Projects Live model demonstrations

Robotic Odyssey- Workshop on Robotics

Department of Physics & Electronics

Students Achievements

S. No.	Student Name	Programme/ Year of Study	Name of the Event	Date	Achievement
1	Madi Vaishnavi	B.Sc (MSCs) IIA	Conspiracy writing as part of Equinox Intra collegiate event	22-7-2023	I prize
2	Nandana Nambiar	B A III year			II prize
3	Chavi Sethia	BA MPSE	Astro ART		I Prize
4	Abhilaya Makkuva	B.Sc. BTGC II yr			
5	Ishitha Jajodia	B.Sc (MSCs) III B	Quiz		II prize
6	Sethu Venkat	BCA IIIyr	Documentary film making as part of Lunar Soiree	8-9-2023	I prize
7	G Aditya	BSc (MPCs) III yr	Micro presentation as part of Lunar Soiree		I prize
8	Bhavana Panchangam	BCA II yr			II prize
9	Chavi Sethia	BA MPSE	Model making as part of Lunar Soiree		I prize
10	Yogesh Soni, G V Vishnu Vardhan, Digvijay Sunil S, Vishnu Suresh Nair	BSc MSCs III yr, BCA III Yr	Prof. Babulal Saraf Memorial National IPSA Science exhibition	23-1-2024	participated

Students @ Prof. Babulal Saraf Memorial National IPSA Science exhibition, Indore

Invited / Guest Lectures (2)

S No	Name	Designation	Date	No. of beneficiaries	Nature of beneficiaries
1	Guest Lectures on "Techniques for weather forecasting"	Dr. K. Nagaratna, Scientist F, Head, IMD, Ministry Earth Sciences, MET Centre, Hyderabad	19-12-2023	100	BSc. MPCs I & II yrs
2.	Guest Lecture on "Evolution of Mobile communications and introduction to 5G"	Neelima Mutheevi, Staff Engineer 5G-ORAN, Org: Dish Wireless Technologies, USA	20-1-2024	35	B.Sc. MECs III, Iyrs & MSc Iyrs

Dr. K. Nagaratna giving Lecture

Ms Neelima Mutheevi giving Lecture

Training received by faculty:

S.No	Name of the faculty	Details of the course	Duration of the Course/Conference	Institute/organisation
1	Mrs M Prasanna	Attended Solarizer workshop at IITB	26th to 29th Dec. 2023	IITB
2	Mr T Prasad	Online Hands on Session and Excerpts based on IoT Applications	18th to 22nd Dec. 2023	VIT Chennai
3	Mr T Prasad	Hands on Workshop IoT	3rd to 9th Dec. 2023	IISER Bhopal