

# St. Joseph's Degree & PG College

# Autonomous - Affiliated to Osmania University

Re-accredited by NAAC with B++ grade (3rd cycle)

King Koti Road, Hyderabad, Telangana

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### **ABOUT THE DEPARTMENT OF PHYSICS & ELECTRONICS**

The Department of Physics &Electronics was established in the year 1997 with the objective of popularizing Mathematics among the students and to encourage research in mathematics, to strengthen the inculcated basic concepts of mathematics to students, to enhance the arithmetic ability of students. The department designed the curriculum for the existing courses to suit the emerging needs of the students.

Faculty of Science was established since the inception of the college in 1997 with a vision to inculcate scientific temperament and futuristic thinking in students, by providing them with extensive and diverse knowledge in the mathematical sciences, and to conduct cutting-edge research in the mathematical sciences. St. Joseph's college is consistently ranked among the top 3 Science Colleges in the twin cities of Hyderabad. The Department offers Under Graduate programmes which are innovatively designed and updated to keep pace with global trends in academics and industry.

The Department is renowned for cutting edge state-of-the-art and quality education since its inception. The Department is also known for facilitating the quality education to the highest and conducting various curricular and extra-curricular activities to make students excel in every field of study, through Interaction with Industry Academia Meet(IAM), Board of Studies, Bridge Courses, Value-added Courses, Experiential

Learning, Certificate Courses, Seminars & Guest Lectures, Peer group learning, Problem Solving Skills and Social Service Activities.

A variety of extra-curricular activities brings science undergraduates together, too. We Science Club working actively since years to build the gap between the technology innovation and learning perspective. We organized and took part in seminars and guest lecturers, mini projects exhibitions and competitions for students and faculty.

The strengths of the Departments are its high quality faculty, innovative and flexible curricula with their unique focus on post-graduate education and employability, state-of-the-art facilities with remarkably high and open transparent policies that foster a healthy student-faculty interaction.

Our laboratories also reflect the unique dichotomy of our curricula with general-purpose ones for core subjects and several specialized ones such as Microprocessor & Micro Controller Lab, Digital & Analog Lab. Physics and Optics Lab. Access to such laboratories is provided to students and faculty on all working days.

Alumni of our B.Sc. programs land jobs at top technology companies—such as Google, Infosys, Wipro, Microsoft, MRF, CAPGEMINI, TECH MAHINDRA, TCS, etc. are hired by major employers in the financial, entertainment, health care, or defense industries, among others.

### VISION

To promote knowledge based Citizens with Scientific temperament and futuristic thinking.

#### MISSION

- $\Box$  To explore the functional & realistic aspects of the subjects.
- □ To provide practical exposure to industry.
- $\Box$  To foster employability skills.
- $\Box$  To inculcate zeal among students to go beyond the curriculum and develop innovative ideas.
- □ To build life skills through value-based education and service-oriented programs.

### **Programmes offered:**

Department offering two popular programmes B.Sc.(MPCs) & B.Sc.(MECs)

### **Program Educational Objectives (PEOs):**

- **PEO1:** Graduates can pursue PG and Research.
- PEO2: Graduates are provided with domain knowledge to be employed in IT industries,
   Scientific & Research organizations and allied industries.
- **PEO3:** Graduates are trained to develop and demonstrate creativity and innovation equipped with Collaborative Working Skills.
- **PEO4:** Graduates will develop positive attitude and life skills, which enable them to become a multi facet personality with a sense of environmental consciousness and responsible citizen with moral and ethical values.

### **Program Objectives (POs):**

- **PO1:** Acquire **knowledge** in Physical Sciences with a thrust on fundamental principles and theories related to various scientific phenomena and their relevance in day-to-day life.
- **PO2:** Graduates attain practical knowledge through **hands-on training and project** experience to meet the industrial needs.
- **PO3:** Graduates develop **critical thinking skills** to identify, analyze and solve problems of their core areas using **modern tools**.
- PO4: To enhance arithmetic skills and logical reasoning for better employability.
- **PO5:** Graduates develop **lifelong learning skills** with interdisciplinary approach towards **sustainable development.**
- **PO6**: Ability to **communicate** effectively the comprehended scientific data and knowledge, write effective reports, design documentation and make effective presentations.
- **PO7:** Apply **ethical, moral and social values** in personal and professional life leading to **highly cultured and civilized society**.
- **PO8:** Ability to work effectively as an individual or as a member or Team leader in diverse teams and in multidisciplinary environs.

### Program Specific Objectives (PSOs):

B.Sc (MPCs):

At the end of the Program

- **PSO1:** Students develop problem-solving skills and learn various concepts, which help in developing logical tools and models used to solve various real life problems.
- **PSO2:** Students acquire knowledge of traditional and modern techniques of solving algebraic, transcendental equations, differential and integral equations, which have applications in many disciplines.
- **PSO3:** The students attain sound knowledge in the areas of Mechanics, Thermal Physics, Waves and oscillations, optics, electromagnetism, modern physics, solid-state physics for pursing higher education and research.
- **PSO4:** Ability to design and develop software applications to address real time problems using Programming languages, Databases, Operating Systems, and Computer Network Concepts.

### **PROGRAMME STRUCTURE FOR B.SC (MECS)**

### **Programme Educational Objectives (PEOs)**

- **PEO1:** Graduates can pursue PG and Research.
- **PEO2:** Graduates are provided with domain knowledge to get employed in IT industries, Scientific & Research organizations and allied industries.
- **PEO3:** Graduates are trained to develop and demonstrate creativity and innovation equipped with Collaborative Working Skills.
- **PEO4:** Graduates will develop positive attitude and life skills which enable them to become a multi facet personality with a sense of environmental consciousness and responsible citizen with moral and ethical values

### **Programme Objectives (POs)**

- **PO1:** Acquire knowledge in Physical Sciences with a thrust on fundamental principles and theories related to various scientific phenomena and their relevance in day-to-day life.
- **PO2**: Graduates attain practical knowledge through hands-on training and project experience to meet the industrial needs.
- **PO3:** Graduates develop critical thinking skills to identify, analyze and solve problems of their core areas using modern tools.
- **PO4:** To enhance arithmetic skills and logical reasoning for better.

- **PO5:** Graduates develop lifelong learning skills with interdisciplinary approach towards sustainable development.
- **PO6:** Ability to communicate effectively the comprehended scientific data and knowledge, write effective reports, design documentation and make effective presentations.
- **PO7:** Apply ethical, moral and social values in personal and professional life leading to highly cultured and civilized society.
- **PO8:** Ability to work effectively as an individual or as a member or Team leader in diverse teams and in multidisciplinary environs.

### Programme Specific Objectives (PSOs) B.Sc (MECs)

**PSO1:** Students develop problem solving skills and methods and develop logical tools and models used to solve various real life problems.

**PSO2:** Students acquire knowledge of traditional and modern techniques of solving algebraic, transcendental equations, differential and integral equations, which have applications in many disciplines.

**PSO3:** Students attain comprehensive knowledge in electronics that will help to construct, analyze, verify, program and troubleshoot digital and discrete component circuits using appropriate tools and techniques.

**PSO4:** Ability to design and develop software applications to address real time problems using Programming languages, Databases, Operating Systems, and Computer Network Concepts

### **Department of Science**

- 1. 3<sup>rd</sup> Best Science College in Hyderabad by "India Today" 2022.
- 2. 3rd Best Science College in Hyderabad by "Group-MDRA Survey",2021-
- 3<sup>rd</sup> Best Science College in Hyderabad City by "India Today, Nielsen Survey", May 2020.
- 4. 68th Best Science College in India by "India Today Nielsen Survey", May 2020.
- Ranked 49th BEST SCIENCE College in India by "The Week-Hansa Research Survey in",

June 2019.

- Ranked 5th Top Emerging College of this Century in India by "India Today, Nielsen Survey", 18th May 2019
- Ranked 3rd among the BEST SCIENCE Colleges in Hyderabad city by "India Today, Nielsen Survey", 18th May 2019
- 8. 49<sup>th</sup> Best Science College in India by "India Today, Nielsen Survey", May 2018.
- 3<sup>rd</sup>Best Science College in Hyderabad City by "India Today, Nielsen Survey" May 2018.
- 10. 39th Best Science College in India by "India Today, Nielsen Survey", May 2017.
- 3<sup>rd</sup> Best Science College in Hyderabad City by "India Today, Nielsen Survey", May 2017.
- 12. 1<sup>st</sup> Best emerging Science College in India by "India Today, Nielsen Survey", 30th May 2016.
- 7<sup>th</sup> Best Science College in Hyderabad City by "India Today, Nielsen Survey", 30th May 2016
- 3<sup>rd</sup> Best emerging Science College in India by "India Today, Nielsen Survey", June 2015.
- 9<sup>th</sup> Best Science College in Hyderabad City by "India Today, Nielsen Survey", June 2015.

S. No	Name	Qualifications	Designation	Experience
1	Mr. M. Sravan Kumar	M.Sc. B.Ed., MBA., Ph.D	Associate Professor	24

### **Details of Faculty, Qualifications & Experience**

2	Mr.R.Ashok Kumar	M.Sc.(AE),UGC-Net	Assistant Professor	16
3	Mr. MLN RAO	M.Sc.(AE)	Head, Assistant Professor	23

### **Faculty Achievements:**

- □ Mr. R. Ashok Kumar got admission in Ph.D in GITAM
- Mr. Sravan Kumar submitted Ph.D. Thesis in department of Physics, Osmania University-December-2021

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		King Koti	Road,	Hyderabad, Telangana.				-	
		Departn	nent of	Physics & Electronics				-	
		Workload Statem	ent - [2	021-2022]- Semester-I, III &	V			-	
5. Jo	Name	Course	Sem	Subject	Theory	Practical	M/P/R	-	
10									
	Dr M Sravan	III B.Sc (MPCs)	V	Physics - 5 (Modern physics)	4	2			
1	Kumar							2 1	
		III B.Sc (MPCs)	V	SEC-Applied Optics	2				
		II B Sc (MPCs)	П	Physics-III (Thermodynamics)	5	2		2	
		L B Sc (MPCs)		Physics-I		2			
				(Mechanics &Oscillations	5				
		III /II B.Sc(MPCs)	V/III	Project/ Mentoring/Research			4		
	Mr R Ashok	III B.Sc (MPCs)	V	Physics-6 (Solid State, Physics)	4	2			
2	Kumar			(Solid State Thysics)					

_						1	
		III B.Sc (MECs)	V	Electronics-5	4	2	
				(Digital Electronics)			
		II B.Sc (MECs)	III	Electronics-3			
				(Analog circuits)	5	2	
		III B.Sc (MECs)	V	SEC(Basic Arduino Programming)	2		
		III B.Sc (MECs)	V	Electronics-6	4	2	
3	Mr. MLN RAO			(8051-Microcontroller)			
		II B.Sc (MECs)	III	Electronics-3	5	2	
				(Analog circuits)			
		III B.Sc (MECs)	Ι	Electronics-1	5	2	
				(Circuit Analysis)			
	DDINCIDAI						
	FRINUITAL						

### OD

Fr. Dr. D. Sunder Reddy

MR.MLN RAO

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King Koti Road, Hyderabad, Telangana.

**Department of Physics & Electronics** 

Workload Statement - [2021-2022]- Semester-II, IV & VI

	Name	Course	Sem	Subject	Theory	Practical	M/P/	То
0							R	tal
	Mr. M. Sravan Kumar	III B.Sc (MPCs)	VI	Physics - 7 (Electromagnetism)	4	2		21
		II B.Sc (MPCs)	IV	Physics-IV (Optics)	5	2		24
		I B.Sc (MPCs)	II	Physics-2 (Waves &Oscillations	5	2		
		III /II B.Sc(MPCs)	VI/IV	Project/ Mentoring/Research			4	
2	Mr.R.Ashok Kumar	III B.Sc (MPCs)	V	Physics-8 (Solid State Physics)	4	2		

								_
		III B.Sc (MECs)	V	Electronics-7	4	2		23
		II B.Sc (MECs)	III	Electronics-4	5	2		
		III /II B.Sc(MPCs)	VI/IV	Project/ Mentoring/Research			4	
3	Mr. MLN	III B.Sc (MECs)	V	Electronics-8	4	2		19
	RAO	III B.Sc (MECs)	V	SEC(Basic Arduino Programming)	2			
		I-B.Sc (MECs)	Ι	Electronics-2	5	2		
		III /II B.Sc(MPCs)	VI/IV	Project/ Mentoring/Research			4	
0	PRINCIPAL D						•	
Fr. Dr. D. Sunder Reddy MR.MLN RAO					40			

### Faculty Roles & Responsibilities in Department

S.No	Lecture –in- Charge	Responsibility
1	Mr.M LN RAO	Head & Program Coordinator
		Class
		In-charge-B.Sc.(MECs)-I-Year
		Project guidance In-charge
		Discipline In-charge
		Addl.Controller
		Criteria In charge -III
		Mentoring
		Science club Convenor
		JSR-incharge
2	Mr. M.SRAVAN KUMAR	Class In-charge for B.Sc
		MPCs-I-Year &II Years
		JSR -MEMBER
		Mentoring
		Departmental criteria in-charge for
		criteria- IV&II&V
		Alumni coordinator for Physics
		course
		Cultural committee coordinator for
		B.Sc
		Library committee member

3	Mr. R.ASHOK KUMAR	Class In-charge
		Criteria -1 & 5 AQAR Work for the
		department
		Committee member of IIC
		Committee coordinator for science
		club
		Mentoring
		Projects for final year students

### **Departmental Contribution to Examination Branch**

S. No	Name of the Faculty	<b>Contribution to the Exam Branch</b>
		Paper Setter
		Evaluation of Scripts
		Moderation
1.	Dr. M. Sravan Kumar	Re-evaluation of Scripts
		Practical examination conduction & evaluation
		Examinations planning and organizing for internal and external.
		Result Analysis of respective Subjects
		Paper Setter
		Evaluation of Scripts
		Moderation
		Re-evaluation of Scripts
2.	Mr.R.Ashok Kumar	Result Analysis of respective Subjects

		As a member of the examination committee – Preparation of
		Seating plans (Regular & Backlog), attendance sheets,
		Invigilators list, stickers, course wise collection and bundling of
		scripts, room wise attendance & consolidation of day wise
		attendance, etc.
		Exam committee member
		Paper Setter
		Evaluation of Scripts
		Proof Reading
3	Mr MLNRAO	Moderation
5		Re-evaluation of Scripts
		Tabulation
		Additional Controller of Examination and member of examination committee



**Controller** of Examinations

valuations



### ST. JOSEPHYS DEGREE & PG COLLEGE

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#### Tentative Almanac for Semesters II, IV& VI (UG) Academic Year 2021-2022

S.No Particulars		Academic Year 2021-22			
i	Commencement of ILIV& VI Semester	24 <sup>th</sup> January, 2022			
2	I-Internal Examination	08 <sup>th</sup> March To 11 <sup>th</sup> March,2022			
3	Odd Semester remained Examinations	21" March to 31" March,2022			
3	Examination Notification	20 <sup>th</sup> April ,2022			
4	II-Internal Examination	5 <sup>th</sup> May to 9th May,2022			
\$	Internal Practical Examinations	nternal Practical Examinations 10 <sup>th</sup> May To 21 <sup>th</sup> May ,2022			
	Submission of Examination Forms				
7	A. Without Late Fee	11 <sup>th</sup> May 2022 to 18 <sup>th</sup> May,2022			
	B.With late Fee	198 May 2022 to 20th May,2022			
8	Last day of Instruction	28 <sup>th</sup> May ,2022			
Ŷ	EVS Exam for II Semester	30 <sup>8</sup> May ,2022			
10	Semester End Examinations (Theory)	] <sup>35</sup> June ,2022			
\$1	Semester End Examinations (Practical)	20 <sup>ss</sup> June to 30 <sup>ss</sup> June,2022			
12	Commencement of Classes Semester III & V (A.Y 2022-2023)	64 <sup>**</sup> July,2022			

Controller of Examinations

metros Evaluation

C. Qualitico Principal

# Departmental Programme/FDP/ Conference/ Seminars

S No	Name of the Programme/Conference	Title of the Programme	
5.10	/ Seminars		Venue & date
1.	5-Day Workshop	5-Day National workshop on Univariate and Multivariate Data Analysis using SPSS	15th to 20th Nov 2021
2.	Workshop	National Level Short term training on practical approach to Intellectual Property	15th to 17th Nov 2021 Organized by St. Joseph's Degree and PG College
3.	Management Development Programme	Multivariate Data Analysis using R	One week online (25 <sup>th</sup> to 30 <sup>th</sup> Oct 2021) VignanJyothi Institute of Management (VJIT)
4.	Workshop	REPORT ON Workshop on Exploring ProQuest resources for Academic research and Learning	19-JULY-2022 organized by Department of Physics&Electronics St. Joseph's degree and PG college
5.	Two day webinar	Basics of Research and Funding Agencies	12 <sup>th</sup> & 13 <sup>th</sup> August 2021, St. Joseph's degree and PG College
6.	International Education forum 2021-22	National Education Policy(NEP), science, Technology and Innovation Policies: Trends and Challenges	2 <sup>th</sup> -6 <sup>th</sup> August 2021, St. Joseph's degree and PG College
7.	12 day FDP	Maths and Science Pedagogy	1 <sup>st</sup> to 12 <sup>th</sup> August 2021, Organized by Indian Teacher Education Community
8.	Participated in (an International Virtual	Crisis Management through Positive Communication for Teachers	13 <sup>th</sup> August 2021, organized by Department

	Conference)		of Media Studies, Christ
	pre-conference workshop		(Deemed to be university)
9.	Participated in National Webinar	Mathematical Perspectives On Computational Science And Engineering	5-Day, 6th-10th July 2020, organized by Ramaiah Institute of Technology
10.	National Level Webinar	Statistical Data analysis through SPSS	22 <sup>nd</sup> July 2021, SSCA, Govt Degree College, K. K. Koppa, T/D: Belagavi
11.	International Webinar	Soft skills Development	20 <sup>th</sup> July 2021, Shri Annandaneshwar Arts, Science, Commerce College & P.G Center
12.	FDP	Developing an Inclusive curriculum: Guide for Curriculum Development and Evaluation Process organized by IQAC in collaboration with Inpods.	5-Day, 10th-15th May 2021 IQAC, St. Joseph's degree & PG college
13.	Participated in International Webinar	International Webinar on "A Study Tour on Research Methodology".	24th March 2021 St. Ann's college for women
14.	FDP	National FDP on "Role of Statistics in Research Methodology".	6-Day, 1st-6th March 2021, IFDC
15.	5-Day National Level Professional Development Programme	Data Analysis using Excel.	5-Day, 2nd -6th February 2021 Little Flower degree college in collaboration with St. Joseph's college for women
16.	Work Shop	Outcome Based Education Learning(OBE)	6 <sup>th</sup> July 2019, St. Joseph's Degree and PG College Extended Campus.
17.	Faculty Development Programme	National Programme on Technology Enhanced Learning(NPTEL)	7 <sup>th</sup> June 2019 Organized by St. Joseph's degree and PG College
18.	Seminar/Workshop	Intellectual Property Rights	23 <sup>rd</sup> February 2019 Organized by

			St. Joseph's degree and PG College
19.	Seminar cum Conference	National seminar cum conference-English and Second Language	19th January 2019 Organized by Department of second Languages St. Joseph's degree and PG College
20.	seminar	Automation through Sensors"	30 <sup>th</sup> November 2021 Organized by physics and Electronics St. Joseph's degree and PG College

1	MLNRAO	5 Day online FDP on "Innovation, Incubation, start-ups and Research Challenges in India"	IQAC of St. Mary's Centenary Degree College, Secunderabad	29th June 2021 to 3rd July 2021
2	MLNRAO	International Education Forum 2021-22 on National Education Policies(NEP) & Science, Technology and Innovation Policies (STIP): Trends and Challenges, Organized by	Department of Business Management, St. Joseph's Degree & PG College, King Koti, Hyderabad.	2nd to 6th August, 2021
3	MLNRAO	7 day FDP on Exploring Dynamics of the CLASSROOM-NEP and NAAC Perspective	Internal Quality Assurance Cell(IQAC) , ST.PAULS COLLEGE,BANGULURU	20-01-2022 to 28-01-2022
4	MLNRAO	One day online FDP on Student Centric Methods and its documentation.	Department of Commerce and IQAC, St. Joseph's Degree and PG College, Hyderabad.	19th April, 2022
5	MLNRAO	Three day-"Digital Tools For Active Teaching, Evaluation and Research"	Department of Chemistry, Sri G.V.G. Visalakshi College for Women, Udumalpet, Tamil Nadu,	28.06.2021 to 30.06.2021 -
6	MLNRAO	Five day online FDP on "Research Avenues and Challenges in Industry 4.0"	Faculty Development Centre in Collaboration wiht the School of Mechanical Engineering of SMVD University, Katra, Jammu.	31st Jan to 4th Feb, 2022.
7	M. Sravan Kumar	6 Day National level Online Faculty Development Program on Outcome Based Education.	IQAC, St. Joseph's Degree and PG College, Hyderabad.	25th April to 30th April, 2022
8	M. Sravan Kumar	One day online FDP on Student Centric Methods and its documentation.	Department of Commerce and IQAC, St. Joseph's Degree and PG College, Hyderabad.	19th April, 2022
9	M. Sravan Kumar	Five day online FDP on "Research Avenues and Challenges in Industry 4.0"	Faculty Development Centre in Collaboration wiht the School of Mechanical Engineering of SMVD University, Katra, Jammu.	31st Jan to 4th Feb, 2022.
10	M. Sravan Kumar	Three day-"Digital Tools For Active Teaching, Evaluation and Research"	Department of Chemistry, Sri G.V.G. Visalakshi College for Women, Udumalpet, Tamil Nadu,	28.06.2021 to 30.06.2021 -
11	M. Sravan Kumar	5-DAY-"Innovation, Incubation, start-ups and Research Challenges In India" organized by	IQAC of St. Mary's Centenary Degree College, Secunderabad	29 June 2021 to 3 July 2021-

12	M. Sravan Kumar	One week international Faculty Development programme organized by	Dr BR Ambedkar College.	02-July-2021 to 08 July-2021-7
13	M. Sravan Kumar	A webinar on optical solutions Theory and applications	The school of Physics, Dr. Vishwanath Karad MIT- World Peace University (MIT-WPU), Pune.	Thursday 10 <sup>th</sup> June 2021
14	M. Sravan Kumar	Two day National webinar on the "Role of Ranking Frameworks in Quality Enhancement in HEIs"	IQAC, St. Ann's College for Women,Hyderabad.	24th to 25th June, 2021
15	M. Sravan Kumar	5 Day FDP on "Developing an Inclusive Curriculum: Guide for Curriculum Development Evaluation Process"	ST.JOSEPH'S DEGREE&PG COLLEGE, in association with INPODS india pvt ltd.	10th may to 15th may 2021.
16	M. Sravan Kumar	Online international conference APPLIED Physics and Material Sciences (APMS-2021)	Department of Physics, Vasavi College of Engineering and Telangana Academy of Sciences (TAS),	17-12-2021-19-12-2 021-3 DAY
17	M. Sravan Kumar	7 day FDP onExploring Dynamics of the CLASSROOM-NEP and NAAC Perspective	Internal Quality Assurance Cell(IQAC) , ST.PAULS COLLEGE,BANGULURU	20-01-2022 to 28-01-2022
18	M. Sravan Kumar	7 Days on line FDP programme on 'National Education Policy-2020	ST.JOSEPH'S DEGREE&PG COLLEGE	09TH FEBRUARY,2022 TO 16 TH FEBRUARY,2022
19	M. Sravan Kumar	5day National level FDP on Methods of Material synthesis organized by	Department of Physics&Electronics under-STAR COLLEGE SCHEME	18 TH -22-january-2022
20	M. Sravan Kumar	one week FDP on " Recent research advances materials: Water and Waste water treatment"	Department of Science and Humanities, Bharath Institute of Engineering & Technology and Indian Ceramic Society Hyderabad.	2nd to 7th August, 2021.
21	R. Ashok Kumar	Five Day online FDP on "Innovation, Incubation, start-ups and Research Challenges in India",	IQAC of St. Mary's Centenary Degree College, Secunderabad	29 June 2021 To 3 July 2021
22	R. Ashok Kumar	4 Day National Webinar On "Understanding Research Methodology and Developing Research Paper Writing Skills".	ST. MARY'S CENTENARY DEGREE COLLEGE	21st to 24th July, 2021
23	R. Ashok Kumar	Two Day Webinar on Basics of Research and Funding Agencies,Organized by Research & Training Cell,	St. Joseph's Degree & PG College, King Koti, Hyderabad.	12th & 13th August, 2021
24	R. Ashok Kumar	One day online FDP on Student Centric Methods and its documentation.	Department of Commerce and IQAC, St. Joseph's Degree and PG College, Hyderabad.	19th April, 2022
25	R. Ashok Kumar	Seven days Online FDP on "National Education Policy"	IQAC, St. Joseph's Degree and PG College, Hyderabad.	9th - 16th February, 2022
26	R. Ashok Kumar	Five day online FDP on "Research Avenues and Challenges in Industry 4.0"	Faculty Development Centre in Collaboration wiht the School of Mechanical Engineering of SMVD University, Katra, Jammu.	31st Jan to 4th Feb, 2022.
27	R. Ashok Kumar	7 day FDP onExploring Dynamics of the CLASSROOM-NEP and NAAC Perspective	Internal Quality Assurance Cell(IQAC), ST.PAULS COLLEGE,BANGULURU	20-01-2022 to 28-01-2022
28	R. Ashok Kumar	5day National level FDP on Methods of Material synthesis organized by	Department of Physics&Electronics under-STAR COLLEGE SCHEME	18 TH -22-january-2022

29	R. Ashok Kumar	International Education Forum 2021-22 on National Education Policies(NEP) & Science, Technology and Innovation Policies (STIP): Trends and Challenges, Organized by	Department of Business Management, St. Joseph's Degree & PG College, King Koti, Hyderabad.	2nd to 6th August, 2021
30	R. Ashok Kumar	One Week FDP on "Recent Advancements and Emerging Technologies in the Area of Education and Research"	IIMT college of management, greater noida, U.P.	3rd to 9th February, 2022

FDP-ATTENDED BY THE FACULTY



JOSEPH'S DEGREE & PG COLLEGE

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### **Department of Physics & Electronics**

### **BRIDGE COURSE REPORT**

The Department of Physics & Electronics as a part of the curriculum conducted a Bridge Course to all the students of BSc First Year students of MPCs/MECs who scored less than 14 marks out of 25 in an Entry Level Test conducted by the Department. This way of conducting an Entry Level Test helps the faculty to identify all those students who lag in the Basics/Fundamentals which are required by every student to cope up with the syllabus of Under Graduation.

**Target & Objective of the Course:** A Total of 20 students scored less than the cut off i.e.12 marks. These students were offered by a Bridge Course where the students were taught the concepts of Fundamentals in ic electricity, their formulae, their applications, Fundamentals of vectors, etc. The students had a fruitful Bridge course. A week days of class were conducted by the Faculty of the Department, Head Mr.M L N RAO.

The Dates of the Bridge Course are a follows:

The following students have attended the course:

# ENTRY LEVEL TEST MARKS LIST OF STUDENTS OF LESS THAN 12SCORENAME OF THE STUDENTROLL NUMBER

	MPCS		
1	9/25	BASETTY RITHVIK VENKATASAI	121421468001
2	7 / 25	JOSEPH RISHWANTH REDDY GOLAMARI	121421468007
3	10 / 25	P.AKASH REDDY	121421468010
4	9 / 25	K.NAGESH	121421468013
5	8/25	T MOUNICA	121421468008
6	8/25	CH SAI MANIDEEP	121421468016
7	11/25	SYED ABDUL JABBAR	121421468018
8	11/25	T VIKRANTH	121421468012
9	6/25	SAI TEJA	121421468003
	MECS		
1	13 / 25	K.PRABHAKAR	121421474005
2	8 / 25	K.ROHAN MATHEW REDDY	121421474006
3	9 / 25	JANAPALA VAISHNAVI	121421474018
4	10 / 25	K.SHASHANK	121421474017
5	11 / 25	K.AKHIL REDDY	121421474011
6	10 / 25	MD BIN SAYEED	121421474023
7	12 / 25	N SHIVA REDDY	121421474021
8	12 / 25	CHAITANYA	121421474022
9	11 / 25	JOSHUA THOMAS VASIMALLA	121421474015
10	09 / 25	GOVADA PEARCY RICHARD RAJ	121421474016
11	10 / 25	JUHI	



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### **BRIDGE COURSE REPORT**

### BRIDGE COURSE TEST RESULT conducted on 9.12.2021

<u>S.NO</u>	<u>SECTION</u>	NAME OF THE STUDENT	<u>ROLL</u> <u>NUMBER</u>	MARKS SCORED (25)
1	MPCS	B. Rithvikvenkata Sai	121421468001	9
2	MPCS	Telugu Mounika	121421468008	7
3	MPCS	Nagesh	121421468013	9
4	MPCS	Syed Abdul Jabbar	121421468018	11
5	MECS	K. Prabhakara	121421474005	13
6	MECS	K Akhil Reddy	121421474011	11
7	MECS	K Rohan Reddy	121421474006	8
8	MECS	Richard	121421474016	17
9	MECS	Vaishnavi	121421474018	9
10	MECS	N.Shiva Reddy	121421474021	12

11	MECS	Joshua	121421474015	11
12	MECS	Samala Chaitanya	121421474022	12

### Faculty Coordinator: Mr. M L N RAO, Mr. M. SRAVAN KUMAR



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### **Department of Physics & Electronics**

### Annual Planner 2021-22

SNO	MONTH	ACTIVITY	DETAILS	TARGET GROUP
1	August-2021	Orientation	Course objectives &	BSc II, III
1			Outcomes	Year students
2	Sept 2021	Orientation	Orientation programme of the Department	B.Sc (MPCs) &B.Sc(MECs) -I
3	Sept 2021	Seminar/Guest Lecture	Regulated Power Supplies	B.Sc (MECs) – II

4	Oct 2021	Science Club Activity	Science Club Activity	B.Sc (MPCs &MECs) – I& II
5	Nov 2021	Seminar/Guest Lecture	Arduino / IOT	B.Sc (MECs) - III
		Science Club Activity	Students Debate On latest technology	B.Sc (MPCs & MECs) - III
6	Jan 2022	Seminar/Guest Lecture	Modern Physics / Solid State Physics	B.Sc (MPCs) – III
7	Feb 2022	National Science Day	Science Day Celebrations Seminar	B.Sc(MPCs & MECs) for all students
8	March-2022	Industrial visit	Visit to NGRI Tentatevely 18 <sup>th</sup> march 2022 or 23 <sup>rd</sup> march 2022	B.Sc (MPCs)-Final Year -40 Students
9	March 2022	Seminar/Guest Lecture	Seminar on VHDL/Verilog	B.Sc (MECs)-I
10	April 2022	Science Club Activity	Students seminar on latest trends in Electronic communication	B.Sc (MPCs &MECs) –II&III

		BOS	BOS Meeting	Course: Physics & Electronics
11	May 2022	Seminar/Guest Lecture	Seminar on Optics	B.Sc (MPCs)-II

# Guest lectures /Seminars/Workshops/FIELD VISTS organised for students:

### 1. Seminar on "Automation through Sensors"

Date	: 30 <sup>th</sup> November 2021
Organized by	: Institution's Innovation Council (IIC) in association with department of
с .	Physics & Electronics.
Target Group	: All registered students.
<b>Resource Person</b>	:Dr. P. Chandra shekar, Director & Management Consultant
	7S Technologies (Formerly Technique Design Group), Secunderabad.
Coordinators	: Mr. R. Ashok Kumar and Ms. Amtul Fatima.
<b>Student Coordinat</b>	ors: BijliBigy – B. Sc MSCs IIIB, Tamanna Agarwal – B. Com 1B Gen,
	MahalakshmiKatari – BBA II & R. Sreestuti BA JPE II.

**Objective:** To provide technical information and knowledge on Automation using various sensors and encourage students to create innovative ideas on automatondesign for real time applications and entrepreneurship.

The Institution's Innovative Council of **St. Joseph's degree & PG** college organized a seminar on **"Automation through Sensors"** on 30<sup>th</sup> November 2021 in association with department of Physics & Electronics at Joseph's Hall from 11.30 A.M to 1.00 PM. A total of 226 students and two faculty members attended the seminar, the main objective of the seminar was to provide information and knowledge on how to design and create automation using various sensors for better control, process and security in various sectors like home automation system, health system, industrial and commercial systems, robotics, IoT based systems etc.

After the prayer and brief introduction about resource person, the resource person Dr. P. Chandra shaker, director & management consultant of 7S Technologies was started seminar by giving introduction on automation and explained its need and uses in real time applications. Later he explained how sensors play an important role in the automation field by showing various sensors physically to the students and as well with respective automation examples through power point presentation. He concluded the seminar by sharing his experience on real time automation applications designed and constructed by his organization. The students shown their ardent interest and technical passion towards real time applications and entrepreneurship by interacting with the resource person at the end of the seminar.

**Outcome**: Students have gained information & knowledge with lot of interest towards innovation on automation for better business and society.

### Schedule

Date: 30<sup>th</sup> November 2021

11.30 A.M	:	Welcome speech by Bijilybigy and welcoming the speaker
11.35 A.M	:	Prayer by R. Sreestuti.
11.40 A.M	:	Resouce person Profile by MahalakshmiKatari.
11.45 A.M	:	Session will hand over to resource person.
12.50 P.M	:	Interaction session with students.
1.05 P.M	:	Felicitation to the speaker with memento.
1.10 P.M	:	Vote of thanks by Tamanna Agarwal.

### Profile of Dr. P. Chandra Shekar – Resource person

Dr. P. Chander Shekar sir, is presently Technical Director & Management Consultant, of 7S Technologies (Formerly called as Technique Design Group), Secunderabad.

He has completed his AMIE & MIE with Electronics engineering branch in the year 1979 & 88 respectively. He also completed M.S from Solent University, UK with specialization in Product development, Industrial Engineering (Robotics), & Market Research in the year 1994 and M.B.A from IGNOU with specialization Information Technology and Marketing in the year 1998. To his credit he completed 16 diplomas in various areas like Electrical, Firefighting & safety, multimedia and so on.

He also associated with Research work for more than 40 years in various Industries including computer industry and also owns an R & D CENTRE.

Associated with computer industry with main frames from 1978. He developed more than 3000 various industrial products. (Motorised wheel chair, Foldable stretcher and Robotic platforms

-Defence Applications, Artificial Arm for amputee hand personal, Corner shot GUN for Defence Applications, Video Guided Automatic Brush (Dental Systems\_ Australia), Solar Powered cooling system and Micro Film (NANO Technology) Speaker.

He has worked as associate Director at Ms Color Kinetics and handled many successful projects (London Eye & Madame tussauds Wax Museum). Development of control Systems for Wilmed Global – USA (dialysis – Renetraon) and Textile and Jewellary Design and manufacturing Automation.

He also developed many successful india's first electronic systems like Robotic hand for BARC-1979, Earth quake Monitoring System –1985 Roorkeee University, Control System for Space simulation chamber –ISRO, Control System for High vacuum high temperature furnace – DMRL, so on.

He guided 2000 BE/B/Tech, 120 M.Tech and 50 M.Sc students and also B.Sc& MBA students for Projects. He received 25 gold medals, 17 silver medals.

Three time Prime Ministers Science & Technology award winner. (Robotic Hand – Space simulation chamber – Earth quake monitoring system – Smt Indira Gandhi, Shri Rajeev Gandhi amd Shri P.V Narasimha Rao).

Also received many other awards, including Singapore Science Centre Associate Award 1999, Philips Holland - Life time contribution for lighting Industry Award by LDA 2007 and Radio VERITAS Asia –Philippines – Optimum performance of Radio Transmitting Station 2009.

He presented 90 papers on Automation and conducted 500 Seminars on Robotic Applications at Various colleges, Institutions and Events. Researched & Developed 48 shops and 12 Stalls from concept to marketing on Turnkey basis. He developed Multi Media Rooms and Auditoriums for Schools and colleges. Theme based Musical Fountains and Sound and light shows. Lighting system for various cultural events.

He is a member of Syllabus Committees in UG and PG Autonomous Colleges (St. Josephs Degree & PG college, National Institute of fashion technology, Advanced Training Institute, St. Francis college for women and St. Ann's Degree college for women) and conducted many seminars and courses also.

He also Member of Indian Society of Lighting Engineers (ISLE), Member of International Lighting Designers, Member of International Market Research Association and also Vice President of International Robotic society from 2011-2013 and again from 2016-2017.

He currently working on World largest clock, waterfall and artificial aquarium.

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Ref: SJC/30-11-2021/74/6

27/11/2021

INSTITUTION'

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### INSTITUTION'S INNOVATION COUNCIL

### NOTICE

This is to inform all the students that our college Institution's Innovation Council is conducting seminar on "Automation through sensors" in association with department of Physics & Electronics on 30<sup>th</sup> November 2021 from 11:30 AM to 1.00 PM in Joseph's Hall, V floor main campus. Interested students can register through the given link.

Google form link for registration:

https://forms.gle/kmLxZTuhhRf45Gx6A

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Fr. Dr. D. Sunder Reddy

Principal & President

Principal ST. JOSEPH'S DEGREE & P.G. COLLEGE King Koti Road, Hyderabad-500 029

2021-11-29 14:37



# Institution's Innovation Council conducting a Seminar on **Automation through** Sensors



**President & Principal** 

Fr. Dr. D. Sunder Reddy In Association with Dept. of Physics & Electronics

# On 30 Nov 2021 from 11.30AM to 1.00 PM Venue: Joseph's Hall, V Floor Main Campus

Mrs. Mary Vinay Sheela

Mrs. A.N.P.P. Anantha Laxmi



**Resource Person:** Dr. P. Chandra Shekar Director **Technique Design Group**  Faculty Co-ordinators: Mr. R. Ashok Kumar Mr. S. Bhanu Prakash **Mrs. Amtul Fatima** 

**Student Co-ordinators:** Mahalaxmi Katari, BBA-II 7075772995 R. Sreestuti, BA(JPE)-II 6303890049 Tamanna Agarwal, BCom-1B 8121253275









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# Institution's Innovation Conneil

# Seminar on "Automation through Sensors"

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### Dr. P. Chandra Shekar

Technical Director Management Consultant78 Technologies, Date: 10.11-2021 Venue: Joseph's Hall Thue: 11.30AM - 1.00PM

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Reason for interest in Technology Entrepreneurship and Innovation

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### SCIENCE DAY- 2022

Date: 28th February 2022Organized by: Department of Physics & Electronics.Target Group: B. Sc (MECs) III Year.Faculty Coordinator: Mr. R. Ashok KumarStudent Coordinators:Ms Bhavani, Mr. S. Shiva Krishna, Mr. V. Kiran Kumar & A. Jashwa.

**Objective:** National Science Day's main objective is to increase awareness among school students about the importance of science and technology in their lives.

National Science Day commemorates the discovery of the Raman Effect by Dr C.V. Raman, for which he won the Nobel Prize in Physics. The department of Physics & Electronics organized a visit to St. Joseph's Girls High School, Gunfoundry on 28<sup>th</sup> February 2022, to make awareness among the students about the importance of science and technology in their lives. A total of 4 students from B. Sc (MECs) III year along with faculty coordinator Mr. R. Ashok Kumar were visited.

The student coordinators visited St. Joseph's girls high school on national science day to interact and take class about importance of science and technology and their advantages & disadvantages in daily lives. Also gave demonstration using projects done by the coordinators to make the school students understand the real life applications of science & technology. Later the girl students of the school interacted with the coordinators regarding issues of present day science & technology like internet, social media, IoT, space and medical sciences etc.

**Outcome:** The students of St. Joseph's girls high school learned and acquainted with advantages and misuses of science & technology in today's people's daily life. Also gained the knowledge about the real life projects using science & technology.






## STUDENTS PROJECT ORIENTATION

Date: 9<sup>th</sup> November 2021

Venue: Room No 508, V Floor.

Objective: To orient and provide awareness on importance of project its objectives & outcomes in their career, value addition and so on.

Target Group: B. Sc (MECs) & B. Sc (MPCs) III year.

Department: Physics & Electronics

#### Organized by:

- 1) Mr. M. L. N Rao.
- 2) Mr. M. Sravan Kumar
- 3) Mr. R. Ashok Kumar

Department of Physics & Electronics organized orientation program on "Students Projects" for B. Sc 3rd year MECs & MPCs students on 9<sup>th</sup> November 2021 from 11:30AM to 12:20PM. This orientation is aimed to provide the students with the information about physics & electronics projects as part of continuous internal learning and assessment, so that the students can able to find the suitable subject project in keeping view of their final semester project work and future career.

The orientation program was started by HoD & senior faculty Mr. M. L. N Rao by addressing students on project objectives & outcomes along with rules and regulations for project work. Shared experience of doing project work in various fields of sciences and oriented the students to give their best to the project and ensured full support of guidance from the department in execution of project work. He also motivated the students not to afraid or think of doing project work as huge task and asked to create group for sharing ideas, knowledge & skills with each other for good outcome of the project work. He ended his orientation by giving importance on programing and technical skills using KIEL, Arduino, Raspberry Pi IDEs and also on C, Java & Python programming to be used in IoT, Embedded systems, Robotics etc with the help of microcontrollers.



Next, orientation was given by Mr. M. Sravan Kumar senior faculty on project work related to physics. He stressed more importance on study projects in the fields of material science, spintronics, condensed matter physics, quantum mechanics, spectroscopy, applied optics & nano-technology. He mentioned and given idea of MoUs with universities and reputed colleges having research facilities for physics so that the students can do their project work in the labs of those colleges under experiential learning.



Finally, orientation was ended by Mr. R. Ashok Kumar senior faculty emphasize the importance of project work in electronics science in the fields of IoT, Embedded systems, Energy harvesting using sensors, Analog& Digital circuits and communications, sensor based electronics projects, wireless sensor networks etc. He also mentioned the importance of MoUs with industries and project training institutes and also ensured students on arranging seminars and workshops by industry & skilled resource persons for helping the students to guide & make the project works successfully. Also provided useful information on physics based electronics projects like instrumentation and measurements, electromagnetism and antennas, wireless power transmission etc.

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS





## <u>Report on Field Visit to National Geophysical Research Institute</u> <u>Organized on 20<sup>th</sup> July 2018</u> <u>Department of Physics and Electronics</u>

DATE: 28-03-22 TIME: 9:00AM - 3:00 PM Organized: DEPARTMENT OF PHYSICS & ELECTRONICS Venue: NGRI-CSIR-CAMPUS Programme Convener: M. Sravan kumar Target Group: B.Sc(MPCs) – III Year No. of Students participated: 25

The Department of Physics and Electronics organized field visit to National Geophysical Research Institute on 28th March 2022 as a part of academic curriculum and for students is to reinforce experiential & contextual learning.

It highlighted the vast and diverse application of physics in geographical sciences.

The students of B.Sc Physics third year were a part of this field visit. They acquired knowledge on how physics plays a vital role in understanding geographical science. It laid a platform for learning and even served as guideline for their future endeavors.

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS





The field visit at NGRI started with an instructor Mr. Diljeth Singh who explained us about, NGRI and took us to different departments named seismological observatory, ground water building and geo chemistry.

## Geo dynamic block:

The filed visit to CSIR-NGRI was escorted by Dr. M Sravan Kumar (Physics faculty), there was 25 students divided into 2 batches. Firstly we went to



three

geodynamics block: This division explained by Dr.S.Satyanarayanan scientist. To view the experimental analysis in determining the type of element and its characteristics such as size, shape, composition etc...

The characterization of rock is based on the following methods:

XRF( X-ray fluorescent seismograph)

-used for the rocks which are more in terms of quantity on Earth.

- I.e. more than 99%

ICPMS (Inductively coupled plasma-mass spectrometer)

-for <1% of rock on Earth (trace elements)







## SEISMOLOGICAL OBSERVATORY

The seismological observatory was operational in 1967 and has been providing earthquake records to the national and international scientific community and public ever since as well as robust and quick information on local and regional earthquakes to Government Disaster Management agencies, print and electronic media.

This department was taken up by Dr. Raghava (Scientist) who explained students about the study of earthquakes, areas prone to earthquake, method used to measure earthquake (seismograph) and detection of earthquake.

To understand the phenomenon, here we have seen the reading of seismograph, physically how it varies, and to find earthquakes magnitude. There we have studied why earthquakes occur and how to detect them. We have seen 2-3 case studies of earthquakes in Hyderabad.





Students at Seismological Observatory

## **GROUND WATER BUILING**

This department was taken up by Dr. Satish Chandra puri (scientist) who explained us on how a branch of physics (Electromagnetism) can be used for detection of various kind of mineral and water bodies present inside the earth with the help of a model. He also gave students information, which will be helpful for doing their projects.

Here we came to know about various mechanisms- technologies used to find ground water, especially in hilly areas. And also how to find ground water level in different land forms.

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS







## Students at Ground Water Building

## **GEOCHEMISTRY BUILDING**

The main objective of this department was characterization of rocks for their trace and rare earth element characteristics and also to understand the crustal evolution in terms of precise age determination.

This department was taken up by Dr. Ajay, Dr.Purushotam, Dr.Vikram, who explained us about different types of rocks and minerals and their identification process. They also introduced students about the fourth state of matter plasma which is used identify different kind of rocks and mineral.

## ROCK GARDEN:

After knowing the characterization methods of rock, we went to rock garden. In that we have seen various types of rocks which are about billion years of age like Dacite -3506 million years (oldest rock), and some precious rocks such as timberline (diamond carrier stone) etc.





After visiting three department students were shown a small video on NGRI and their achievements.

After Wards, we had Lunch in the canteen by 2:00 to 2:30, explore the NGRI institute and ended our field trip by 3:00 pm

## STUDENTS FEED BACK:

Field trip to CSIR-NGRI obviously gave exposure to us in terms of rock characterization, ground water analysis and earthquakes identification.

The knowledge that we have gained there is very useful for our research-related projects.

We sincerely thank our principal **Rev. Fr. D. Sunder Reddy** for giving us an opportunity and encouragement to visit such research oriented- skill gaining and informative field trip.

We thank our physics lecturer Dr. M Sravan Kumar for constantly guiding, motivating and encouraging us throughout the field visit and also letting us know the possibilities of having a career in CSIR-NGRI after graduation.

This was our first field visit in association with physics & electronics department and we have acquired lots of knowledge regarding geographical physics and geochemistry, we would be happy to say that we can see our distinct career in geophysics and make a better future in it, field visits guide us to make a better career.

We truly enjoyed the field visit from very beginning to the end.

CONVENER: Dr.M. Sravan Kumar

Physics faculty

Principal: Fr.Dr.D. Sunder Reddy

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS

Autonomous || Affiliated to Osmania University || Re-accredited by NAAC with 'A' Grade





DEPARTMENT OF PHYSICS & ELECTRONICS Industrial Vist - NGRI Venue: NGRI-Hubsiguda Date: 28-03-2022 Timings - 9AM TO 3PM

FACULTY COORDINATOR M.SRAVAN KUMAR

# Group:B.Sc(MPCs)-Final Year

ТО

Date: 03/03/2022

THE DIRECTOR National Geographical Research Institute (NGRI) TARNAKA HYDERABAD

Subject: Request for grant of permission for industrial visit in your firm.

Dear Sir,

I Dr. M. Sravan Kumar on behalf of the Department of Physics & Electronics, St. Joseph's Degree & PG College, and Autonomous, affiliated to Osmania University would like to bring to your kind notice that Industrial visit is a part of our curriculum to pave way for experiential learning to the students. In this regard I request you to permit our B.Sc (MPCs) students to visit NGRI Division, Tarnaka.

We would be grateful to you sir, if you could kindly suggest us your convenient dates in the **month of March tentatively 18<sup>th</sup> March (Friday)or 23<sup>rd</sup> march (Wednesday)** so that our students from B.Sc (MPCs) final year can make the industrial visit at NGRI.

With reference of Mr.Chinna Reddy (Employee in NGRI) I, on behalf of college request you to make it convenient for which I will be thankful to you sir.

Sir we sincerely request you to provide an opportunity for our students to visit your firm.

For further communication please contact: 9963900347

Email id: mskphysics.347@gmail.com sravan@josephscollege.ac.in

Thanking you Sir and awaiting with anticipation and positive reply. Yours sincerely

Dr. M. Sravan Kumar Associate Professor Department of Physics&Electronics



## **ST. JOSEPH'S DEGREE & PG COLLEGE**

(Autonomous), Affiliated to Osmania University Re-accredited by NAAC (3<sup>rd</sup> Cycle) with B<sup>++</sup> Grade King Koti Road, Hyderabad

## LIBRARY AND INFORMATION CELL&IQAC

## Academic Year: 2021-2022

# **REPORT ON Workshop on Exploring ProQuest resources for Academic research and Learning**

Date: 19-JULY-2022

Name of the Faculty: 1. Dr.S. Venkata Siva Kumar

- 2. Dr.A. Danam Tressa,
- 3. M.Sravan kumar
- 4. Mrs Aperna Rajhans

Recourse Person: **Mr. Srijith Saisdharan** Venue: Chapel hall

Course: FDP

Topic: Workshop on Exploring ProQuest resources for Academic research and Learning

## Methodology: Guest Lecture

No. of Attended: 67

**A brief report**: The event was regarding the Workshop on Exploring ProQuest Resources for Academic Research and Learning.

- 1. ProQuest has a database that is an immersive destination for the survey and analysis of poetry, stories, essays, plays, and criticism.
- 2. ProQuest provides books, journals, videos, audio, dissertations, Theses, and case studies that support the research of faculty members and students of different course backgrounds.
- 3. ProQuest collections span centuries of newspapers, dissertations, journals, primary sources, videos, e-books, and more to ensure access to varied content types and deep datasets. By partnering with ProQuest, libraries empower researchers to analyse every aspect and angle of complex topics. And, together with powerful text and data mining tools, uncover insights that could lead to breakthroughs.
- 4. It is helpful for students and faculty members to have relative information using keywords.
- 5. We also have an alternative of choosing the source types, Document types in various Languages.
- 6. ProQuest software tools help libraries put the spotlight on researchers and their accomplishments.
- 7. ProQuest helps in writing Reference manuals; ProQuest helps the students by improving their scores and gaining Knowledge.

8. Finally Team members thanked to Dr.D.Sunder Reddy principal for his motivation and encouragement to make this event is most usefull one to all faculty for research. Report compiled and prepared by Mr.M.Sravan kumar

#### Proof with Link/ Geo-tagged photo:





**Outcome:** The Attended Faculty is familiar and equipped with adequate knowledge on usage of ProQuest software for research of faculty members and students of different course backgrounds.



## **ST. JOSEPH'S DEGREE & PG COLLEGE**

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## **Department of Physics & Electronics**

## Industry-Academia Meet

The Industry- Academia Meet 2022 held on 17<sup>th</sup> March 2022 at conference hall from 2:00 pm to 5:00 pm. The experts from Research Institutes, Industry and Academicians from other organizations along with the In-house faculty attended the session and made the following suggestions in Physics course based on industry needs to bridge the gap between industry and academy.

## **Members of the Meet**

- 1. Dr. Fr. D Sunder Reddy, Principal, St. Joseph's Degree and PG College.
- 2. Rev. Fr. Uday Bhaskar Reddy, Dean Academics, St. Joseph's Degree and PG College.
- 3. Mrs. Mary Vinaya Sheela, Dean Academics, St. Joseph's Degree and PG College.
- 4. Prof. D. Suresh Babu, (Retd.), Subject Expert, Osmania University. Hyderabad
- Dr.P.Bala bhaskar, Subject Expert & Principal, Govt City College (Autonomous), Hyderabad.

- 6. Dr.P.SR Prasad, Senior Principal Scientist, National Geophysical Research Institute-CSIR.
- 7. Mr.V.G. Kulkarni, Managing Director, VivaceSonics Private Limited, Hyderabad.
- 8. Dr.P.Venkateshwar Rao, Managing Director, PHYSITECH ELECTRONICS, Hyderabad.
- Mr. M L N Rao, Head, Department of Physics & Electronics, St. Joseph's Degree and PG College.
- Mr.M.Sravan kumar, Department of Physics & Electronics, St. Joseph's Degree and PG College.
- Mr. R.Ashok kumar , Department of Physics & Electronics, St. Joseph's Degree and PG College.

## Industry-Academia Meet-Physics <u>Members Present:</u>

- 1. Dr. Fr. D Sunder Reddy, Principal, St. Joseph's Degree and PG College.
- 2. Rev. Fr.Uday Bhaskar Reddy, Dean Academics, St. Joseph's Degree and PG College.
- 3. Prof.D.SureshBabu,(Retd.),Subject Expert, Osmania University, Hyderabad.
- Dr.P.Bala bhaskar, Subject Expert & Principal, Govt City College (Autonomous), Hyderabad.
- Dr.P.SR Prasad, Senior Principal Scientist, National Geophysical Research Institute-CSIR.
- 6. Mr.V.G. Kulkarni, Managing Director, Vivacesonics Private Limited, Hyderabad.
- Dr.P.VenkateshwarRao, Managing Director, PHYSITECH ELECTRONICS, Hyderabad.
- 8. Mrs. Mary Vinaya Sheela, Dean Academics, St. Joseph's Degree and PG College.

- Mr. M L N Rao, Head, Department of Physics & Electronics, St. Joseph's Degree and PG College.
- Mr. M. Sravan kumar, Department of Physics & Electronics, St. Joseph's Degree and PG College.
- 11. Mr. R. Ashok kumar, Department of Physics & Electronics, St. Joseph's Degree and PG College.

Resolutions of the **Industry- Academia Meet** 2022 in **Physics** Course as mentioned here under;

- 1. The meeting begin with the prayer by Rev.Fr.T.Udaya Bhaskar at 2:15 pm.
- 2. Mr.M.Sravan Kumar introduced the members of the meet.
- 3. Mrs Mary Vinaya Sheela, Dean Academics welcomed the resource persons (Subject Experts) of the day and Industry experts and addressed the gathering.
- Dr.Balabhaskar and Prof.D.Suresh babu suggested to go with weightage of 20% and 80%. If internal assessment is continuous and examinations conducting proper form then proceed with the same.
- 5. Prof.D.suresh babu has suggested to give more priority and weightage to the practical component and also suggested to increase the credits for practical component.
- 6. Prof.D.suresh babu has suggested completing the syllabus better to give home work problems for better practice.
- Dr.Bala bhaskar suggested keeping managerial skills as one of the SEC or AECC paper.
- 8. Prof.D.suresh babu has suggested another paper in place of Environmental studies.
- 9. Prof.D.suresh babu has suggested improving the physics projects and practical approach in labs.
- 10. Dr.PSR Prasad suggested to improve the physics projects and research orientation for final year students.

- 11. It was suggested to improve the industry visits to grab the attention from te students to opt Physics as main stream in their Future.
- 12. It was suggested to give basic research to the students.
- 13. Dr.PSR Prasad suggested following Kerala and west Bengal syllabus for betterment of physics curriculum content further, and improvement in basic research oriented course as SEC.
- 14. Board suggested to improve the physics course see the syllabus of CSIR/IIT-JAM syllabus and North universities for better future in physics.
- 15. Board suggested giving theory and problems and experimental oriented projects.
- 16. Dr.Bala bhaskar suggested adding cantilever as one of the applications in bars in paper-2 and Carnot's cycle application any one included in unit-1 also solar constant measurements in unit-4 of paper-3.
- 17. Prof.D.suresh babu has suggested to remove unified physics text books from library
- Dr.Bala bhaskar suggested including particle in a box 1-D and 3-D in unit-3 of modern physics paper-5.
- 19. Add Raman Effect experiment in practical's list from ocean optics make availability of Carbon tetra chloride liquids.
- 20. Board suggested that **Renewable energy and energy harvesting or Fundamentals of Physics or Atmospheric science or Nano Science** as Generic Elective paper.
- 21. Board suggested that electrical repair/mobile repair/computer hard ware and networking for physics students.
- 22. Board suggested to make mou's with companies to offer internships for electrical and electronics.
- 23. Board unanimously accepted the policies and appreciated the management for timely update and focussing on quality measures towards strengthening the curriculum.

## INDUSTRY ACADEMIA MEET 2022 SUMMARY SHEET

Date: 17th March 2022from 2:00 pm to 4:00 pm.Department: PHYSICS&ELECTRONICSVenue: conference hall<br/>COURSE: PHYSICS

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS

Resource Person	Suggestions Given	Program	Semester	Course	Suggestions Implemented – (where & How)	Suggestion s which are not Adopted reasons – (Why)
Prof. D. Suresh Babu	More weightage to the practical component and increase the credits. Completing the syllabus better to give home work problems for better practice. Include Environmental studies as a course. Renewable energy and energy harvesting/Fundamentals of Physics / Atmospheric science/Nano Science as Generic Elective paper.	B.Sc(MPCs )	For all semesters	Physics	More practical s are added in semesters-1,2,4,5,7 ,8 and each course. Advanced learners and average learners facility provided and encouraged to more number of experiments(minim um is06) marks given in SBT and internal practical's Assignments are problem solving work sheets included as a part of CIA(Under SBT) In SEC-2 Environmental studies paper included as a compulsory and has 2 credits. PHY SICS-GE Tittles and syllabus implementing with 2 credits.	
				GE-Physic s offered to other departmen ts		
Dr.P.Bala bhaskar	Examination pattern internal and external go for 20% and 80%. Managerial skills as one of the SEC or AECC paper. Suggested adding cantilever as one of the	B.Sc(MPCs)	For all semesters SEC or	Physics	Not implemented Cantilever topic added as one of the application in longitudinal bars in unit-4 of semester-1 and Carnot's cycle application and	College has a unique policy of implementi ng CIA+ External component 40%+60%

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS

	applications in bars in paper-2 and Carnot's cycle application any one included in unit-1 also solar constant measurements in unit-4 of paper-3. Particle in a box 1-D and 3-D in unit-3 of modern physics paper-5. Renewable energy and energy harvesting/ Fundamentals of Physics / Atmospheric science/Nano Science as Generic Elective paper.		AECC Semester-2 Semester-3 Semester-5		solar constant measurements added in unit-1 and unit-4 of Paper-3. In modern Physics paper unit-5 particle in a box (1-D, 2-D,3-D) application included.	As a one of GE paper students can take from other department, which offered by manageme nt
Dr. P.S.R Prasad	Improve the physics projects and research orientation for final year students. Basic research Follow &View Kerala and west Bengal syllabus for betterment of physics curriculum content.	B.Sc(MPCs	B.Sc(Phys ic)-final year Complete Physics course	Physics	Implemented Kerala &West Bengal states using the UGC-Physics curriculum and the same here also adopted with some minor changes in order to meet	

					parent university syllabi	
Mr.V.G. Kulkarni	Industry visits & MoU	B.Sc(MPCs	B.Sc(MP Cs)-III year	Physics	Implemented-Rece ntly NGRI-Field visit conducted.	
Dr.P.Venkateshwar Rao	Industry visits& Internships &MoU	B.Sc(MPCs	B.Sc(MP Cs)-III &II year	Physics	Looking forward to get more MoUs from various industries.	Already Institution has a policy in making MoU, Department has MOU with Physitec Industries and Tesla Scientific Instruments

**Note: 1.** Board suggested that electrical repair/mobile repair/computer hard ware and networking for physics students.

2. Board suggested improving the courses for competitive entrance exams like CSIR/IIT-JAM syllabus and North universities for better future in physics and administrative services examinations.

## • INDUSTRY ACADEMIA MEET- 2022 (FEEDBACK)

• Date: 17-03-2022 2:00pm-5:00pm Electronics

## **Department: Physics**

• Venue: Conference hall

## **Course: Physics**

Semester	Program	Course	Suggestions Given	Suggestions which can be Adopted
II	B.Sc(MPC	Physics-2(Waves	Add cantilever application in	
	s)	&Oscillations)	bars unit-3	
III		Physics-3(Therm al Physics)	Carnot's cycle application any one included in unit-1 also solar constant measurements in unit-4 of paper-3.	

IV		PHYSICS-5(Mo dern Physics)	particle in a box 1-D and 3-D as an application of Schrodinger wave equations in unit-3 In lab Raman effect experiment.	
V		Generic elective	Renewable energy and energy harvesting /or Fundamentals of Physics/ or Atmospheric science /or Nano Science	Adopted
Note:	Before making Physics syllab	g syllabus once cheo us Adopted	ck Kerala/West Bengal and CSI	IR/IIT-JAM



ST. JOSEPH'S DEGREE & PC COLLEGE (Autonomous). Affiliated to Osmania University Re-accredited by NAAC.(3<sup>st</sup> Cycle) with B<sup>++</sup> King Koti Road, Hyderahad

12.03.2022

To, Prof. D. Suresh Babb, (Retd.) Head & BOS, Vice Principal, Department of Physics, University College of Science. Osmania University, Hydernbad- 500007.

Dear Sir,

#### Subject: Request to attend the Industry Academia Meeting - req, Reg.

St. Joseph's Degree and PG College, established in the year 1997 by the Hyderabad Archdineese Educational Society, is a Co-education Catholic Christian Minority Institution. St. Joseph's Degree and PG College is an autonomous educational institution, affiliated to Osmania University & Re-accredited by NAAC (3<sup>27</sup> cycle).

The college is catering in various disciplines in under graduate Courses and we take utmost care in designing the curricularmine to meet industry requirements to our students.

In view of this process we request you to be a member of the Industry Academia Meeting to review the curriculum for B.Sc. Physics papers for I, II & III year undergraduate courses on 17.03.2022 at 2:00 PM in the Conference Hall, St. Joseph's Degree & PG College, Hyderabad.

Please make it convenient to attend the meeting.

Thanking you.

Yours faithfully, Principal Fr. Dr. D. Sonder Reddy St. Joseph's Degree & PG College.



Managed by Hyderabad Archdiocese Educational Society MAIN CAMPUS: 5-9 – 1106, Basheerbagh, King Kori Road, Hyderabad-S00 029 Extend Campus: 5-9,300, St. Joseph's College, Gunfoundry, Abids, Hyderabad – 500 001 Ph: +91 -40 23234860, 23231769, 23244259, 93460, 2142, Fax: =91-40-23230569 Email: info@gosephscollege.in. www.jegephscollege.ac.in



ST. JOSEPH'S DEGREE & PG COLLEGE (Autonomous), Alfiliated to Osmania University Re-necredited by NAAC-(3<sup>rd</sup> Cycle) with B<sup>++</sup> King Koti Road, Hyderabad

72

12,03.2022

Mr.V.G. Kulkerni
Managing Director,
Vivace Sonies Private Limited.
1-3, 80/1. Street Number 6, Vijayanagar Colony,
Habsiguda, Hyderabad, Telangana 500007

Dear Sir.

#### Subject: Request to attend the Industry Academia Meeting - req, Reg.

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Please make it convenient to attend the mooring,

Thanking you

Yours faithfully, Principal

Fr. Dr. D. Sunder Reddy 'St. Joseph's Degree & PG College.



Managed by Hydernbad Archdiocese Educational Society MAIN CAMPUS: 5-9--1106, Basheerbagh, King Koti Road, Hyderabad-500 029 Extend Campus: 5-9-300, St. Joseph's College, Gunfpundry, Ahids, Hyderabad - 500 001 Ph: +91-40 23234860, 23231769, 23244259, 9346012142, Fax: +91-40-23230569 Email: info<u>r@josephscollege.in.</u> www.josephscollege.ac.in.



ST. JOSEPHI'S DEGREE & PG COLLEGE (Autonomous), Affiliated to Osmania University Re-accredited by NAAC (3<sup>rd</sup> Cyc.c) with B<sup>rd</sup> King Koti Road, Hyderahasl

12.03.2022

To, Dr.P.Bala Bhaskar Subject Expert & Principal, Government City College (Autonomous), City College Road, High Court, Nayapul, Hyderabad - 500002, Telangana

Dear Sir.

#### Subject: Request to attend the Industry Academia Meeting - req. Reg.

St. Joseph's Degree and PG College, established in the year 1997 by the Hyderabad Archdiocese Educational Society, is a Co-education Catholic Christian Minority Institution. St. Joseph's Degree and PG College is an autonomous educational institution, affiliated to Osmania University & Re-accredited by NAAC (3<sup>rd</sup> cycle).

The college is datering in various disciplines in order graduate Courses and we take utmost care in designing the corriculum - In most industry requirements to our students.

In view of this process we request you to be a member of the Influstry Academia Meeting to review the curriculum for B.Sc. Physics papers for I, II & III year undergraduate courses on 17.03.2022 at 2:00 PM in the Conference Hall, St. Joseph's Degree & PG College, Hyderabad.

Please make it convenient to attend the meeting.

Thanking you

Yours feithfully, Principal

Fr. Dr. D. Sunder Reddy St. Joseph's Degree & PG College.



Managed by Hyderabad Archdincese Educational Society MAIN CAMPUS: 5-9 - 1106, Bashcerhagh, King Koti Road, Hyderabad-500 039 Extend Campus: 5-9-300, St. Joseph's Cellege, Curfhundry, Abids, Hyderabad - 500 001 Ph: -91 -40 33234860, 25231769, 23244259, 9346012142, Fax: +91-40-23230569 Email: info@joseph:scollege.in. www.josephscollege.ac.in.



## ST. JOSEPH'S DEGREE & PG COLLEGE

(Autonomous), Affiliated to Osmania University Re-accredited by NAAC (3<sup>rd</sup> Cycle) with B++ Grade King Koti Road, Hyderabad

## **Department of Physics & Electronics**

## Electronics 1<sup>st</sup> Industry Academia Meet 24<sup>th</sup> March, 2022

Principal ST. JOSEPH'S DEGREE & P.G. COLLEGE King Koti Road, Hyderabad-500 029

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# ST. JOSEPH'S DEGREE & PG COLLEGE

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#### Agenda

Program: Electronics Industry-Academia meeting Date: 24<sup>th</sup> March, 2022. Venue: Conference Hall, 5th floor.

- 1. Prayer by Rev. Fr. Uday Bhasker Reddy, Dean Academics, St. Joseph's Degree & PG College.
- 2. Welcoming the members.
- 3. Address by the Principal Fr. Dr. D. Sunder Reddy, St. Joseph's Degree & PG College.
- 4. Review of present electronics curriculum under CBCS
- 5. Implementation of UGC proposed curriculum based on common structure.
- 6. Generic Elective (GE) and Discipline Specific Electives (DSC).
- 7. Ability Enhancement Compulsory Courses (AECC) and Skill Enhancement Courses (SEC).
- 8. Certificate courses/ Internships/Project.
- 9. Any other information with the permission of the chair.
- 10. Vote of thanks by R. Ashok Kumar.

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The Industry Academia meet for Electronics course was held on 24<sup>th</sup> March, 2022 from 2.00 pm to 4.00 pm at Conference Hall. The following members attended the meeting.

- Fr. Dr. D. Sunder Reddy Principal
- 2. Rev. Fr. T. Udaya Bhaskar Reddy Dean Academics
- Mrs. Mary Vinaya Sheela Dean Academics
- Prof. D. Srinivasu Department of Physics, OU
- Prof. Mohd. Shareefuddin Department of Physics, OU
- Dr. P. Chandra Shekar Industry Expert, Director, Technique Design Group
- M. Srinivas Divisional Engineer, TS Transco
- Mr. M. Laxminarsimha Rao HoD, Dept. of Physics & Electronics
- Mr. R. Ashok Kumar Assistant Professor
- 10. Mr. M. Sravan Kumar Assistant Professor

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Meeting started with the prayer by Rev. Fr. T. Udaya Bhaskar Reddy, Dean Academics. Mr.M.L.N.Rao introduced the members. Mrs. Mary Vinaya Sheela madam, Dean Academics has given introductory talk on the importance of industry interaction for framing the syllabus. The following points are discussed.

- As per the first year semester- I and II are fundamentals. The members felt that the syllabus is appropriate for the first year students. Dr. Chandra Shekar suggested to remove some of the topics of CRO as it is no more in use in industry and asked to introduce DSO (Digital Storage Oscilloscope) fundamentals.
- 2. Members felt that it would be appropriate to add TRIAC family component in Unit-3 along with SCR and UJT as they become industry standard at present.
- 3. Dr. Chandra Shekar suggested to add corresponding experiments for the above mentioned topics.
- Dr. Chandra Shekar suggested to remove LC oscillator (Hartley oscillator) of unit-4 of semester - 3, as it is similar to Colpitts oscillator and also from experiments list
- 5. Dr. D. Srinivasu and Dr. Chandra Shekar suggested to remove biasing current topic of operational amplifiers in unit-1 of semester-4.
- Dr. Md. Shareefuddin suggested to remove logarithmic amplifier and analog computational circuit in unit-2 of semester – 4 as they are not much useful at industry level.
- Dr. Chandra Shekar sugged to remove block diagram of communication from unit-3 and also varactor diode FM modulator from unit-4 of semester - 4.
- Discussed about the title of the Electronics 4 as it is lengthy and suggested to change the nomenclature in next BoS.
- Dr Chandra Shekar suggested to remove counters using IC7490 & IC7493 (decade and binary counters) from unit-4 of semester-5. He asked to add CD4017 a CMOS Decade counter if it is possible.
- Dr. Chandra Shekar and Dr. D. Srinivasu suggested to remove history of microcontroller from unit-1 of semester - 5 as it may not be tested in evaluation.
- 11. Members suggested to reduce the topics in assembly language programming and increase the embedded C programming
- 12. Dr. Chandra Shekar emphasized on applications of microcontrollers used in industry such as sensors based interfacing, stepper motor interfacing etc.,

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- 13. Discussed about Generic Elective courses to be offered to the non-science programme students. The following courses are suggested for generic elective by the members.
  - Basic Electronics
  - Fundamentals of Digital Electronics
  - > Computer Hardware & Networking
  - > IoT & Embedded systems
  - The member felt that the existing Skill Enhancement Courses (SEC) i. Basic Arduino Programming ii. Fundamentals of Robotics, iii. PCB Designing are good to offer and no need to change.
  - 15. Dr. Chandra Shekar suggested to offer mini projects with grades in second year, semester 4 so that students enhance their skills.
  - 16. Members suggested to introduce internships at least for two weeks outside on any topic.
  - 17. Members stressed on the importance of workshops/seminars/guest lectures and industrial visits

Meeting concluded with the presentation of formal vote of thanks by Mr. R. Ashok Kumar.



**Outcome:** The suggestions provided by the industry-academia experts found very useful for designing the curriculum.

1 Industry Academia moeking. 24.03.2022 Event Name: Industry Academic Meeting. Venue :: Conference Halo 121 1 Timings: 2pm to 4pm. The Dept. of physics & Electronices conducted the Ind Academia meeting on 24/3/2022 at 2.00 pm in Conf Hall. The following members allended the meeting for Desaly Fr. Dr. D. Sunder Reddy\_ principal --- Bring Rev. Fr. Udaya Bhaskar Reddy Academic Dean Mrs. Mary Vinaya sheela Academic Dean Sale pr. D. Srinivas Subject Expert, Electronio 0.0 Julhilles Dr. md. Shallefuddin Subject Exper, Electronia 0.0 Dr. P. Chandla Shelere Direta P.Char m. Srinival Divisional Engineer TSTransco. Mr. M. Lakmi Naline Ras, HoD, SJC Mr. R. Ashok Kumal, Servin Eaculto, STC Mr. M. Sravan Kumar, Serier Faculty, S.T.C.

Electronics Industry Academia Meet 2022 Summary

Date: 24 March 2022

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	7707 II.	Departn	1ent: Physic	s & Electronics	Venue: Confer	rence Hall
Resource Person	Suggestions Given	Program	Semester	Course	Suggestions Implemented – (where & How)	Suggestions which are not Adopted reasons
Dr. Chandra Shekar	Suggested add Digital Storage Oscilloscope	B.Sc(MECs)	-	Circuit Analysis	It was suggested to add in unit-4. The topic is added.	
Dr. Chandra Shekar	Suggested to add Triac	B.Sc(MECs)	П	Electronic Devices & Circuits	It was suggested to add in unit-4 in SCR. The topic is added.	
Dr. Chandra Shekar	Suggested to remove LC oscillator	B.Sc(MECs)	Ш	Analog Circuits	Hartley oscillator was removed	Colpitts oscillator is not removed as the BoS recommended it.
Prof. D. KarunaSagar and Dr. D. Srinivasu	Suggested to remove logarithmic amplifier and analog computational circuit	B.Sc(MECs)	IV	Linear Integrated Circuits and Basic Communication Electronics	Implemented the suggestion in unit-2.	
Dr. Chandra Shekar	Suggested to delete block diagram communication electronics	B.Sc(MECs)	IV	Linear Integrated Circuits and Basic Communication Electronics	Implemented by removing the topic from unit-3	
Dr. Chandra Shekar	Suggested to remove Varactor diode FM demodulator	B.Sc(MECs)	IV	Linear Integrated Circuits and Basic Communication Electronics	Implemented by removing the topic from unit-4	
Resource	Surmostions C.	Program	1990) Linteración		Suggestions	Suggestions which are
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Person	ouggestions Given	0	Semester	Course	Implemented -	not Adopted reasons
	Suggested to remove				(where & How)	– (Why)
Dr. Chandra Shekar	Up/Down counter using	B.Sc(MECs)	М	Digital	Implemented the	
	counter using 7490 IC		:	Electronics	suggestion.	
Dr. Chandra	Suggested to remove					Not adapted as Dat
Shekar	biasing voltages of op-			Linear Integrated		member thought it is
	amp	B.Sc(MECs)	IV	Circuits and Basic		useful topic from
				Electronics		designing point of
Dr. Mohd	Suggested to add fam.					View.
Shareefudding	tonic on Fourier					
D	Transforms related to	B.Sc(MECs)	M	Communication		Not adopted as unit-1
	digital communication					occonnes reugury.
Dr. Chandra	Suggested to remove			8051		Bos members not
Shekar	entire assembly	D SouthCol	11	Microcontrollers		accepted to remove as
	language programming	(SUTIVI)	>			it is basic programming
						for embedded systems

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Principal

Principal ST. JOSEPH'S DEGREE & P.G. COLLEGE King Koti Road, Hyderabad-500 029



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#### BOARD OF STUDIES FOR THE ACADEMIC YEAR 2022-2023 DEPARTMENT OF PHYSICS & ELECTRONICS

Minutes of the Board of Studies Meeting for PHYSICS Course held on 06-April-2022, Wednesday at 2:00 PM, in the Board Room, St. Joseph's Degree &PG College, and Hyderabad.

#### **COMPOSITION OF BOARD OF STUDIES**

I. PRINCIPAL

Rev. Fr. Dr. D.SUNDER REDDY

II. CHAIRMAN BOARD OF STUDIES

Mr. M.SRAVAN KUMAR

III. EXPERT NOMINATED BY THE VICE-CHANCELLOR (OU)

Prof. M.SRINIVAS

#### IV. SUBJECT EXPERTS (OUT SIDE)

- 1. Dr. Md. SHAREEFUDDIEN
- 2. Dr. N.PAVAN KUMAR

#### V. INDUSTRY REPRESENTATIVE

Dr. K.SURESH-SENIOR SCIENTIST - ARCI

#### VI. POSTGRADUATE STUDENT ALUMNUS

Mrs. K. KEERTHI

- VII. Members (Faculty)
  - 1. Mr.MLN RAO
  - 2. Mr. R. ASHOK KUMAR

#### **DEPARTMENT: PHYSICS & ELECTRONICS**

#### **AGENDA FOR BOARD OF STUDIES**

#### 2022-2023.

#### Date: 06-April -2022

- 1. Prayer by Rev.Fr.Udaya Bhaskar Reddy.
- 2. Welcoming the Board of Studies members by M.Sravan Kumar
- 3. Presenting the previous BoS-Physics course resolutions and ratification.
- 4. Presenting the Scheme of instruction of B.Sc (PHYSICS) with simplified course codes for three years for the batch 2022-25w.e.f 2022-2023 for discussion and approval.
- Presenting the course syllabus of B.Sc (PHYSICS) course of First year semester-1 and Semester-2 for the admitted batch 2022-2025 w.e.f 2022-2023 for discussion and approval.
- Presenting the course syllabus of B.Sc (PHYSICS) course of second year semester-3 and Semester-4 for the admitted batch 2021-2022 and final year semester-5 and semester-6 for the admitted batch 2020-2021 with effect from 2018-2019 for discussion and approval.
- 7. To discuss on Internal Examination paper pattern on the basis of Blooms taxonomy approval.
- 8. Presenting the panel of examiners for discussion and approval.
- 9. Any other related matter with the permission of the chair.
- 10. Vote of thanks

#### THE DEPARTMENT OF PHYSICS & ELECTRONICS

#### RESOLUTIONS OF THE BOARD OF STUDIES MEETING

#### FOR PHYSICS COURSE

#### Wednesday, 06th April 2022 at 2:00 PM

Board Room, St. Joseph's Degree & PG College, Hyderabad.

The Board of Studies meeting for the Department of Physics & Electronics for **Physics** for B.Sc(MPCs) Course was held on Wednesday, 06<sup>th</sup> April 2022 at 2:00 pm in Board Room, St.Joseph's Degree & PG College, and Hyderabad.

#### The following are the resolutions:

#### It has been resolved:

- 1. To approve the previous Board of studies meeting minutes.
- To approve the syllabus of-DSC- Physics Paper-5(Modern Physics), Elective papers DSE- Paper-6A (Solid State Physics), Paper-6B (Modern Optics), Paper-6C (Nuclear Physics) of Semester – V, for the batch 2020-2021.
- To approve the syllabus of DSC Physics Paper-7(Electromagnetism) and Elective papers–DSE-Paper-8A (Basic Electronics), Paper-8B (Semiconductor Devices) Paper 8C (Instrumentation & Measurement) of Semester –VI, for the batch 2020-2021.
- 4. To approve the Physics course structure and syllabus for the batch 2021-2022.
  - DSC-Physics Paper-3(Thermodynamics) of Semester -III
  - DSC- Physics Paper-4(optics) of Semester IV
  - DSC -Physics Paper-5 (Modern Physics) of Semester V
  - DSE Physics Paper-6A (Solid state Physics), Paper-6B (Modern Optics) Paper-6C (Nuclear Physics) of Semester–V
  - DSC -Physics Paper-7 (Electromagnetism) of Semester-VI

- DSE-Physics Paper-8A (Basic Electronics), Paper-8B (Semiconductor Devices) Paper-8C (Instrumentation & Measurement) of Semester–VI.
- 5. It was resolved to approve Physics course structures and scheme of instruction with simplified course codes for three years for the admitted batch 2022-2025, with effect from 2022-2023.
- 6. Committee suggested removing Michelson Morley topic from Unit-3 in semester-1 theory Paper.
- 7. Committee suggested adding practical experiments Torsional pendulum and Surface tension-capillary rise method.
- 8. It was resolved to approve Physics First year semeseter-1(Mechanics &Oscillations) Theory and Practical, for the Admitted Batch 2022-2025 with effect from 2022-2023.
- 9. It was resolved to approve Physics semester-2 (Thermal Physics) Theory and Practical for the Admitted Batch 2022-2025 with effect from 2022-2023.
- 10. Committee suggested adding text books Engineering Physics by Avadhanulu and ksheeraSagar S.Chand &Co. And B.Sc(Physics)-Unified Physics by S L.Gupta Kumar
- 11. Committee resolved to approve credits for all the semesters.
- 12. It was resolved to approve Skill Enhancement Course (SEC)
- 13. It was resolved to approve the scheme of evaluation for theory, practical for Internal and End Semester examinations and Project based on Blooms taxonomy.
- 14. It was resolved to approve the panel of External examiners for theory and practical examinations.

The above resolutions were unanimously approved by the board at the meeting.



#### **BoS Meeting for Electronics Course**

The Board of Studies meeting for Electronics course was held on 6<sup>th</sup> April, 2022 at 11:30AM at the Committee Room, Department of Physics, Osmania University. Meeting started with introduction of members. Mr. M. Laxminarsimha Rao presented the previous BoS resolution to the board. Mr. Rao presented the modified course structure which includes GE paper in the Semeter-5 and also the syllabus for the discussion for 2022-2023 admitted batch. The board ratified the course structure and Semester-I & semester-II syllabus of Electronics theory and practical's.

Subsequently Mr. Rao presented the syllabus of semester – III to semester-VI for the revision. Board ratified the revised syllabus of semester – III to semester – VI. Board ratified the Continuous Internal Evaluation process and also panel of Meeting was concluded successfully with presentation of formal vote of thanks by Mr. R. Ashok Kumar senior faculty. The following are the BoS composition, agenda and resolution of the meeting.

#### **BOARD OF STUDIES MEMBERS**

#### Principal

Fr. Dr. D. Sunder Reddy

St. Joseph's Degree & PG College

#### **Chairman Board of Studies**

Mr. M. L. N. Rao

Head, Dept. of Physics & Electronics

St. Joseph's Degree & PG College

#### **Expert Nominated by the Vice-Chancellor**

Prof. J. Laxman Naik

Chairman BoS Electronics, Osmania University

#### Subject experts

Prof. D. Karuna Sagar

Head, Dept. of Physics, OU

Dr. D. Srinivasu

Dept. of Physics, OU

#### Industry/corporate sector/allied area (relating to placement) Representative

Dr. P. Chandra Shekar

Director, Technique Design Group and 7S Technologies

#### **Postgraduate Meritorious Alumnus**

Ms. L. Swathi

ASIC, Physical Design Engineer,

MOS Chip Technologies Pvt. Ltd.

### **Department Faculty**

Mr. R. Ashok Kumar,

Assistant Professor, St. Joseph's Degree & PG College

Mr. M. Sravan Kumar, Senior Faculty, SJDC

Assistant Professor, St. Joseph's Degree & PG College



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### <u>Agenda</u>

- Program: Board of Studies Meeting
- Date:  $6^{th}$  April, 2022.
- Time: 11:30 AM
- Venue: Committee Room, Physics Department, O.U
  - 1. Prayer.
  - 2. Welcoming the members.
  - Presentation of previous BoS minutes Mr. M. Laxminarsimha Rao, Chairman BoS, St. Joseph's Degree & P.G College.
  - 4. Presentation of UGC proposed new structure of B. Sc (MECs) program for the academic year 2022-23 onwards.
  - 5. Modification/change of course codes.
  - 6. Discussion on implementation of I and II semester first year Electronics syllabus based on new structure w.e.f. 2022-23.
  - 7. Review of present second and third year Electronics syllabus for the academic years 2022-23 and 2023-24.
  - 8. Discussion on Generic Elective (GE) and Skill Enhancement Courses (SEC) to be implemented from academic year 2024-25.
  - 9. Approval of Evaluation scheme based on the Blooms taxonomy
  - 10. Discussion on Certificate courses/Internships/Project.
  - 11. Any other information with the permission of the chair.
  - 12. Vote of thanks by R. Ashok Kumar.

# **The Department of Physics & Electronics**

#### **RESOLUTIONS OF THE BOARD OF STUDIES MEETING**

Wednesday, 6<sup>th</sup> April 2022 at 11:30 AM.

Committee Room, Dept. of Physics, Osmania University

The Board of Studies meeting for the Department of Physics & Electronics for Electronics course of B.Sc (MECs) was held on Wednesday, 6<sup>th</sup> March 2022, 11:30 AM in Committee Room, Department of Physics, Osmania University, Hyderabad.

- 1. It was resolved to approve new structure for Electronics course of B.Sc (MECs) for 2022-2025
- 2. It was resolved to approve new course codes of Electronics course of B. Sc (MECs) w.e.f 2022-2023.
- It was resolved to approve syllabus of first and second semesters of Electronics course of B.Sc (MECs) First Year w.e.f 2022-23
- 4. It was resolved to approve the Question paper pattern for the CIA w.e.f 2022-23.
- 5. It was resolved to approve revised syllabus of second and third year of Electronics course of B.Sc( MECS) for 2022-23 and 2023-24.
- 6. It was resolved to approve the titles of GE (Generic Elective) to be implemented from 2024-25
- It was resolved to approve the titles of SEC to be offered from 2024-25 in semester-5 and semester - 6
- 8. It was resolved to approve internal & external practical evaluation process.
- 9. It was resolved to approve guidelines, internal and external assessment of project in semester VI.
- 10. It was resolved to approve panel of examiners for theory & practical examinations.

The above resolutions were unanimously approved by the board at the meeting.

#### SCIENCE CLUB – SCIENTIA EVENT REPORT

Date	: 13 <sup>th</sup> April 2022
Organized by	: Science Club – Department of Physics & Electronics.
Target Group	: All registered students.
Chief Guest	: Fr. T. Uday Bhasker Reddy, Dean Academics, St. Joseph's Degree & PG
	College.
Coordinator	: Mr. R. Ashok Kumar – Science Club Convener.
<b>Student Coordin</b>	ators: 1. Ms. Jyostna Sri MECs II Yr, 2. Mr. Dinesh MPCs II Yr,
	3. Mr. Rizwan MPCs II Yr, 4. Ms. Bhavani Desai MECs III Yr,
	5. Ms Sofia Sultana MPCS III Yr.

**Objective:** To provide Science infotainment through various events and encourage students to create innovative ideas and leadership skills through events.

The events which were held are:

- 1. Pictorial quiz (Based on Scientists, inventions and discoveries)
- 2. Debate (Topic: Science experiments on animals boon or bane)

The Science club of Physics & Electronics department organized an event "SCIENTIA" on 13<sup>th</sup> April, 2022 at Joseph's Hall from 11.00 A.M to 1.00 PM. A total of 36 students from various programs were participated in two events. The main objective of the event was to provide infotainment and knowledge through science such as pictorial quiz, article writing and debate.

After the prayer by Ms. Bhavani Desai, the chief guest Fr. Uday Bhaskar Reddy, Dean Academics declared SCIENTIA event opened. and given a speech on how science will play important role for infotainment in our daily life. The events were conducted for all program students of B. Sc, B.Com, BA, and BBA. The events were successfully conducted with a healthy participation of all the participants.



Google

Hyderabad, Telangana, India st. JOSEPHS DEGREE COLLEGE BLOCK, ST. JOSEPHS DEGREE & PG COLLEGE, Gun Foundry, Basheer Bagh, Hyderabad, Telangana 500001, India Lat 17.396836° Long 78.478357° 13/04/22 11:15 AM





Hyderabad, Telangana, India ST. JOSEPHS DEGREE COLLEGE BLOCK, ST. JOSEPHS DEGREE & PG COLLEGE, Gun Foundry, Basheer Bagh, Hyderabad, Telangana 500001, India Lat 17.396836° Long 78.478357° 13/04/22 11:15 AM

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS







Winners of Pictorial Quiz: Team B.

- Ashis V. Nathan B. Sc (MECs) III Year 121419474003
- T. Shashank B. Sc (MECs) III Year 121419474040
- M. Hemanth Chandra B. Sc (MECs) III Year 121419474028
- P. Amal Kesavan B. Sc (MECs) III Year 121419474036
- G. Neeraj Yadav B. Sc (MECs) III Year 121419474006
- M. Naveen Kumar B. Sc (MPCs) III Year 121419468011
- V. Sai Teja B. Sc (MPCs) III Year 121419468037
- G. K. Vineeth B. Sc (MECs) II Year 121420474006

Winners of Debate: Team A

- Rohan B. Sc (MPCs) II Year 121420468034
- Vardhan B. Sc (MPCs) II Year 121420468023
- G. K. Vineeth B. Sc (MECs) II Year 121420474006
- Anurag B. Com (IFA) II Year 121420409003
- Pradeep B. Sc (MECs) II Year 121420474005
- Noorul Zain B. Com (Hons) I Year 121420709053
- Teja B. Sc (MPCs) II Year 12142047468011
- Shreyas B. Sc (MPCs) II Year 12142047468018
- Shiva B. Sc (MPCs) II Year 12142047468010
- Ronak Tiwari B. Sc (MPCs) II Year 12142047468004
- G. Neeraj Yadav B. Sc (MECs) III Year 121419474006
- Bharat B. Sc (MPCs) III Year 121419468003
- Sai Charan B. Sc (MPCs) III Year 121419468015

## Joseph's Social Responsibility Report 2021-22

Name of the Class In-Charge	R. Ashok Kumar	
Name(s) of Class CRs	<ol> <li>S. Jyostna Sree</li> <li>B. Gagana</li> <li>J. Kiran Kumar</li> </ol>	
Class and Section	B. Sc (MECs) IIA	
Year and Semester	II Year - IV Semester	
Place of Visit	AADARSH HOME FOR ORPHAN CHILDREN FOR GIRLS, Kothapet, Hyderabad.	
Objective of Visit	To Provide orphans and destitute children with basic and secondary needs such as food, groceries, educational guidance, clothes, love and recreational activities. To spend time with amazing kids who grew up without parents and to realize the importance of social	
	responsibility towards orphans, old age, specially abled and destitute in the society.	
Contributions and Plans of the Visit	<ul> <li>Plans</li> <li>Being in line with the objective of visit to orphanage.</li> <li>Find out orphanage and fixing the appointment.</li> <li>Interviewing children to understand the mindset to access/measure their need.</li> <li>Fundraising to buy and donate the food, snacks, groceries, stationary &amp; sports items.</li> <li>Donate old clothes and things to be brought from home.</li> <li>Conduct recreational activities and games to orphans.</li> </ul>	

Contributions
<ul> <li>Total amount collected : Rs. 9550/-</li> <li>Amount spent on Food and Snacks : Rs. 1500/-</li> <li>Groceries (Rice bag, pulses, oil, peanuts, etc) Fruits and indoor game kits : Rs. 5450/-</li> <li>Stationary items : 2500/-</li> </ul>





#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS



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#### Joseph's Social Responsibility (JSR) – 2021-22 Visit to Adarsh Home for Orphan Children, Kothapet, Hyderabad. Attendance – B. Se (MECs) II Year Date: 13-05-2022

Roll Number	Name	Signature
121420474001	BANDARI CHANDANA	
121420474002	BILLA ABHINAND	Attintud
121420474003	JANA SAI CHARAN	July
121420474004	JORRIGALA UDAY KUMAR	uday ku mas
121420474005	MEDIKONDA PRADEEP	Alt
121420474006	G K VINEETH	vivet.
121420474007	NAKKA SAI NITHYAN	Seiner.
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121420474011	KANNABOINA SOHAN	K. Schalt.
121420474012	SOMISETTY JYOSTNA SREE	yofnasie
121420474013	APURI AMARNATH	(v·R)-
121420474014	HARSH VYAS	
121420474015	NAMANI PRANAY KUMAR	purp.
121420474016	REON JOSEPH	
121420474017	KOMURAVELLI DHANUSH GANGADHAR	

121420474018	M YASHWANTH REDDY	your -
121420474019	JAMPALA KIRAN KUMAR	J.B.
121420474020	PARASHARA VENKATA KRISHNA	VINA
121420474021	KARANGI NATHANIEL JOHN SUNDER	K. Johnsunds
121420474022	SALIBINDLA SATHWIK REDDY	
121420474023	BOJJA GAGANA	(ghapane
121420474024	A PRANATHI	A. Pranathi
121420474025	SAHIL UPADHYAY	
121420474026	SHAIKMASOOM	MBBA-
121420474027	BELLAMKONDA KARTHIK	
121420474028	GURRAMPATI BALAKONDA REDDY	Belebula.
121420474029	VASAM AMRUTHRAM	(V·P)
121420474030	RELAKAR. PRIYANKA	Remple.
121420474031	M.BHANU TEJA .	Bhanu.
121420474032	ARYASOMAYAJULA VIJAY ASHISH	VArhil
121420474033	GAJULAPALLE VINAY KUMAR REDDY	Siray
121420474034	NAKARAKANTI AKHIL	Attendo .
121420474035	KASARLLA SAICHARAN	
121420474036	ABDULRAHAMAN	
121420474037	MOHAMMED IRFAN	
121420474038	THANETI NITHISH .	
121420474039	AMBEKAR VAMSHI RAMA RAO .	A. vanfri very
121420474040	DUDDOLA DEEKSHITHA .	

ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS



# ST. JOSEPH'S DEGREE & PG COLLEGE

(Autonomous), Affiliated to Osmania University Re-accredited by NAAC (3<sup>rd</sup> Cycle) with B<sup>++</sup>Grade King Koti Road, Hyderabad



### Joseph's Social Responsibility Report

Name of the Class In-Charge	Mr. M Sravan Kumar
Name(s) of Class CRs	1. Mr. G Dinesh Kumar 2. Ms. R Pauline Smith
Class and Section	BSc MPCs- 2A
Year and Semester	IInd year 4th semester of 13-05 200
Place of Visit	Cheers foundation Green Hills Rd, near HITEC City, Raghavendra Society, Kaithalapur, KPHB VIII Phase, Kukatpally, Hyderabad, Telangana 500072
Objective of Visit	Visit to the orphanage to spend time with kids for a day, providing services and essential commodities to support the orphanage and encourage orphan students for their education.
Contributions and Plans of the Visit	Each student had contributed an amount of 250/- for JSR day. Students have planned and confirmed the orphanage location in Kukatpally. Students with the support of the class in charge, have coordinated and arranged snacks, stationary items, for orphans. Fun activities like musical chairs, interactive games, dance motivational speeches etc were conducted. Special contribution by Mr K Aloysius sir, who had sponsored and distributed towels for the orphans.

D.GK

Student coordinator

Faculty coordinator GR

Principal

Principal ST. JOSEPH'S DEGREE & P.G. COLLEGE King Koti Road, Hyderabad-500 029

#### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS









#### ANNUAL REPORT





List of students with signature:

### ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS

# St. Joseph's Degree & PG College



(Autonomous), Affiliated to Osmania University

Re-accredited by NAAC (3rd Cycle) with B++ Grade

King Koti Road, Hyderabad

ACADEMIC YEAR 2021-2022

S.NO	ROLL NUMBER	NAME OF THE STUDENT	SIGNATURE
1	Nt Sagar		. P
2	A-Vampi Lody	A-Varrohi Keddy	A.Vampfindleadi -
3	D. Gop: Koishno	DGOD; Koushing	RA
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6	G. ainesh k	GOD 121420408006	Eltra
7	Vamehi	12142048007	Vanshi
8	Mahendrei	12 1470468008	(Mun)
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11			
12	Mirzufiman	121420408012	f13.65
13			
14	Xa Sai 1214 204818	N. Sai	N. Bui
15	1214204680142		
16	121420468016	Pauline	Abrith
17	1 Martin Lange (		
18			
19			
20	121120486.8020	ganesh	Canada
21			- querest i
22			
23	121420468023	Vardhan	wordhan
24	121420468024	M. Jagan Mohan	M Taga and - 0
25	121420468025	Preethi Takhar	Preeter.
26	121420468026	Shah ifteouor	Suce.
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det Agun Kuman, P 121420468031 31 32 ARYAN 1214204680 33 33 Rohan 121420468034 34 35 36 CH. Karthits 121420468037 (H. Karthik 37 N. Sagar 121420468038 N. Sogar 38 39 om. A. Dishal Kio 121420468040 40

ANNUAL REPORT 2021-2022-PHYSICS&ELECTRONICS

total Money Colle	cted By Students To J	SR
ANNUAL REPORT 2021-2022	-PHYSICS&ELECTRONICS	c MPCs)-2A) (2nd yea
Name	Roll No	Amount.
A Adarsh Krishne	121420468001	250/-
A Vamshi Reddy	121420468002	Not Given
Gopi Krishna	121420468003	250/-
Rounak Fibasy	121420468004	250/-
G.E.S. Kumar	121420468005	300/-
G. Dinesh Kumar	121420468006	300/-
Vamshi trishna	121420468007	250/-
K. Mahendra Gonech Kumor	121420468008	250/-
Bala chive find	121420408009	250-
M.Teja	121420468011	250/-
M. Rizwan	121420468012	250/-
Pranay Kumar	121420468013	400/-
Naga Siddu Sai Dellas Cuill	121420468014	. 25 9/-
Prithvi Raj	121420408010	Not Given Not Given
Shaeyash	121420400018	250/-
Bayed Aziz	121420468019	300/-
T. Ganesh	121420468020	250/-
Nasendra kumar	121420468021	250/-
P. Suraj	121420468022	250/-
Vardhan Reddy	121420468023	250/-
agan Mohan	121420468024	250/-

ANNUAL REPORT 20	21-2022-PHYSICS&ELECTRONICS	Amount
Pseethi jakhar	121420468025	Not given
96-tequar	121420468026	250/-
4. venkatuh	121420468027	350/-
kSiddhanth	121420468028	250/-
J. Adhitya	121 420 468 029	250/-
k. Varaprasod	121 420 468 030	250/-
P. Asun kumas	121420468031	250/-
B. karthik	121420468032	250/-
G. Aryan	121420468033	250/-
Rohan Joy	121420468034	250/-
Yaseer	121420468035	Not coming to college
Mubashir	121420468036	Not coming to college.
C. Kasthik	121420468037	250/-
N. Sagar	121420468038	250/-
T. Ruthik	121420468039	250/-
Vishal	121420468040	250/-
Min partic	Total amoun	t collected: 8650/-
12 422	(Faculty) Savitha me	um: 200/-
1	(Towels) Aloysius site	: 2475/-
1020	Total = 11	,300/-
	Remaining an	nourit = 1,514/-.
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#### Bills to be enclosed:





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PRIY	ANKENI	ENI	ATIONEDY
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Distributors	& Dealers In Revnolds	& All Statione	ry Goods
-2-398/1-7, "PRI	YANK COMPLEX", Risala Abdullah,	New Osmangunj, H	lyderabad - 500 095.
	Tel. : 66259642, Cell : 918214	48822, 98850207	/21
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## **DEPARTMENT OF ELECTRONICS & PHYSICS**

# **Students Projects for the Academic Year 2021-2022**

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S. No	H.T. No	Name of the Student	Project Name		
1	121419474001	Abhilash Pati	Smart Parking Application		
2	121419474002	A. Jashwa	Smart Door Camera with Facial Recognition and Thermal Scanning		
3	121419474004	Bhavani Desai	Smart Door Camera with Facial Recognition and Thermal Scanning		
4	121419474009	Himanshu Tiwari	Automatic Plant Irrigation System using IoT		
5	121419474013	Luman Bin Ali	Smart Parking Application		
6	121419474016	N. Lokesh	Bus Tracking System		
7	121419474020	R. Tejas	Arduino Based Water Pump Controller		
8	121419474023	S. Shiva Krishna	Drone (UAV)		
9	121419474024	V. Kiran Kumar	Drone (UAV)		
10	121419474026	J. Krishna Kanth	Voice Controlled Robotic Vehicle		
11	121419474027	Nikitha	Arduino Based Water Pump Controller		
12	121419474028	M. Likith Kumar	Voice Controlled Robotic Vehicle		
13	121419474031	Hussain Asadullah	Automatic Plant Irrigation System using IoT		
14	121419474032	Sidharth Adatiya	Drone (UAV)		
15	121419474034	C. Krishna Sai Mudiraj	Bus Tracking System		
16	121419474035	K. Sai Vamshi	Intelligent Border Security Intrusion Detection System		
17	121419474037	D. Akhil	Intelligent Border Security Intrusion Detection System		
18	121419474038	M. Shreya	Smart Door Camera with Facial Recognition and Thermal Scanning		

### **Electronics Projects**

# Physics Projects 2021-22

ST JOSEPH'S DEGREE & PG COLLEGE							
Department of Physics							
B.Sc (N	B.Sc (MPCs) - III Year- SEMESTER-VI-PROJECT DETAILS-APRIL-2022						
NAME	OF THE FACULTY:M	.SRAVAN KUMAR					
S.No Hall Ticket Student Name Project Title Number							
1	121419468013	P Gunashekhar	IOT based solar power monitering system				
2	121419468014	P. Vijay kumar Goud	IOT based solar power monitering system				
3	121419468018	Sofiya Sultana	Waste Heat Recovery System				
4	121419468020	Badri Narayana	Synthesis, structrual, magnetic and optical studies of Eu doped Ni-Zn nano ferrites				
5	121419468028	Y Sowmya	Physical study of cancer cell-Physics perspective.				
6	121419468033	T. Sahith	Synthesis, structrual, magnetic and optical studies of Eu doped Ni-Zn nano ferrites				
7	121419468038	S. John	Hearing Machine				
8	121419468040	B. Divya	Physical study of cancer cell-Physics perspective.				

## Result Analysis:2021-2022



Hyderabad

# St. JOSEPH'S DEGREE & PG COLLEGE

(Autonomous), Affiliated to Osmania University

NAAC with A Grade with a CGPA of 3.49 King Koti Road,

**RESULT ANALYSIS - MARCH/APRIL EXAMINATIONS-2022.** 



### 12. Tabulated Result Analysis:

Marks Range	Fail	40-49	50-54	55-59	60-69	70-84	85-100
Grade	F	Е	D	С	В	А	0
Grade Point	0	5	6	7	8	9	10
No. of STUDENTS	9	0	5	0	3	5	1
Percentage%	0	0	2.5%	5%	30%	62.5%	0



13. Bar chart:

#### 14. Measures taken to cater needs of slow learners before exams :

- Feedback from the respective students took individually about the syllabus.
- Counsel the students for identifying difficulties in coping up the Curriculum and remedial classes conducted for them.
- Group divided and facilitated peer group students to make interaction with quick understanding to slow learners within the class.
- Encouragement created among, to raise interest towards learning the concepts.
- 2 Motivation given to the students to reduce absenteeism.
- 2 Notes given to all students in the class on every topic.
- 2 Academic unit planner strictly implemented in class room
- 15. Remedial Measures by the faculty for Students who have Backlog:
  - a. Detailed notes given for each and every topic
  - b. Remedial conducted

c. Personally counseled





### St. JOSEPH'S DEGREE & PG COLLEGE

(Autonomous), Affiliated to Osmania University Accredited by NAAC with A Grade with a CGPA of 3.49 King Koti Road, Hyderabad

## **RESULT ANALYSIS - MARCH/APRIL EXAMINATIONS-2021.**

Name of the Class In charge: M. SRAVAN KUMAR

#### Name of the Course, Year and Section: B.Sc (MPCs)-SECOND YEAR -SEM-IV, Section - A

1.	No of students Admitted in the c 40	ourse:					
2.	No of Students Applied for Exam	n	: 40				
3.	No of Students Appeared for Exa	am	: 40				
4.	Number of Students Applied but	Absent for Exa	am :				
5.	Number of Students Passed 100%		: 40	ii) Pass% :			
6.	Number of Students Failed in the	e Subject	: 0	ii) Fail% : 0%			
7.	Number of Students failed in Ex	ternal Exam	: 0				
8.	Number of Students Failed due t	o less Internal	Marks(Passed in	External): Nil			
9.	Class Maximum Grade Point	: 9.80					
10.	Class Minimum Grade Point	: 6.64					
11.	Class Average GRADE	: 8.84					

#### 12. Tabulated Result Analysis:

Marks Range	Fail	40-49	50-54	55-59	60-69	70-84	85-100
Grade	F	E	D	С	В	A	0
Grade Point	0	5	6	7	8	9	10

No. of STUDENTS	0	0	1	2	12	25	0
Percentage%	0	0	2.5%	5%	30%	62.5%	0



13. Bar chart:

#### 14. Measures taken to cater needs of slow learners before exams :

- Feedback from the respective students took individually about the syllabus.
- Counsel the students for identifying difficulties in coping up the Curriculum and remedial classes conducted for them.
- group divided and facilitated with peer group students to make interaction with quick understanding to slow learners within the class.
- Encouragement created among, to raise interest towards learning the concepts.
- Motivation given to the students to reduce absenteeism.
- Notes given to all students in the class on every topic.
- Academic unit planner strictly implemented in class room

#### 15. Remedial Measures by the faculty for Students who have Backlog:

- a. Detailed notes given for each and every topic
- b. Remedial conducted
- c. Personally counseled
- d. Given Question bank on important topics

# Placement Details 2021-22

S. No	Name of the Student	Class	Designation
1	Manisha Pariyar	B.Sc III MPCs	Coordinator
2	Joel Paul	B.Sc III MPCs	Coordinator
3	Bijli Bigy	B.Sc III MSCc	Coordinator
4	Darpan Gandhi	B.Sc III MSCc	Coordinator
5	Bhavani Desai	B.Sc III MECs	Coordinator
6	Shiva Krishna	B.Sc III MECs	Coordinator

## **B.Sc Student Coordinators**

## List of Students with recruitment

S. No.	Name of the Student	Class	Name of the Company	Designation	CTC pa (Rs)
1	T.Shashank	BSc MEC's	Sutherland Global Services Inc	Associate (Voice Process)	2.50 Lakhs
2	Bhavani Desai	BSc MEC's	Sutherland Global Services Inc	Associate (Voice Process)	2.50 Lakhs
3	Ashanolu Jashwa	B.Sc MEC's	Deloitte USI Consulting	Associate Analyst	3,82,500
4	Saikiran Jella	B.Sc MSC's	Deloitte USI Consulting	Associate Analyst	3,82,500
5	Saransh Rana	B.Sc MEC's	Deloitte USI Consulting	Associate Analyst	3,82,500

-	-				
6	Vaishnavi Basuthkar	B.Sc MSC's	Deloitte USI Consulting	Associate Analyst	3,82,500
7	Sai Nihar Guntoju	B.Sc MEC's	Deloitte USI Consulting	Associate Analyst	3,82,500
8	Ashish Vangogue Nathan	B.Sc MEC's	Deloitte USI Consulting	Associate Analyst	3,82,500
9	Hobby Gerard Rao	B.Sc MEC's	Deloitte USI Consulting	Associate Analyst	3,82,500
10	Silveri Shiva Krishna	B.Sc MEC's	Deloitte USI Consulting	Associate Analyst	3,82,500
11	Darpan Gandhi	B.Sc MSC's	TCS	Associate Consultant	1,90,926
12	Narasala Satya Prasad	B.Sc MSC's	TCS	Associate Consultant	1,90,926
13	Srirangam Ajay Sai Chandu	B.Sc MEC's	Accenture	Graduate Trainee	3,55,500
14	Darpan Gandhi	B.Sc MSC's	Accenture	Graduate Trainee	3,55,500
15	P.Kevin Harry	B.Sc MSC's	Accenture	Graduate Trainee	3,55,500
16	P.Sriya	B.Sc MEC's	BYJU'S	Academic Specialist	6 Lakhs
17	Manisha Pariyar	B.Sc MPC's	ADP	Finance & Administration Delivery Position	3 Lakhs
18	Bhavani Desai	B.Sc MEC's	Q Spiders	Software Testing/ Software Developer	3.5 Lakhs
19	Gudipati Divya	B.Sc MSC's	Q Spiders	Software Testing/ Software Developer	3.5 Lakhs

20	Katapally Anusha	B.Sc MSC's	Q Spiders	Software Testing/ Software Developer	3.5 Lakhs
21	Vemula Kiran Kumar	B.Sc MEC's	Q Spiders	Software Testing/ Software Developer	3.5 Lakhs
22	Biradar Ajay Kumar	B.Sc MSC's	Q Spiders	Software Testing/ Software Developer	3.5 Lakhs
23	G.Sri Koushik	B.Sc MPC's	ICICI Prudential	Graduate Trainee	2.45 Lakhs
24	Yemimeni Rohith	B.Sc MPC's	Kantar	Analyst	3.4 Lakhs
25	N.Satya Prasad	B.Sc MSC's	United Online	System Engineer (Network Operations Center)	3 Lakhs
26	Dharne Kunal Kumar	B.Sc MSC's	Omega Health Care	Accounts Receivable Trainee	2.5 Lakhs

# INTERNSHIP RECORD: 2021-2022

S. No	Date of Drive	Name of the Company	No. of Students Selected from B.Sc.	Stipend (Rs)
1	25 <sup>th</sup> Nov 2021	Voice 4 Girls	3	Rs.5000 for 15 days
2	6 <sup>th</sup> April 2022	Voice 4 Girls	6	Rs.7000 for 15 days
3	12 <sup>th</sup> April 2022	Medplus	1	23000 PM for Sales Promoter & 26000 PM for Tele Caller

## FUTURE PLANS OF THE DEPARTMENT

DST-PROJECT PROPOSALS

Introduction of PG PROGRAM as per Industry Need.

To organize International/NATIONAL Conference /Workshops.

To introduce certificate course from department.

To encourage students to join Online Certification Courses (NPTEL) SWAYAM and to have credit transfer.