



## 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

### Department of Physics & Electronics

Date: 03-08-2022

This is to inform to the students of B.Sc(MPCs) and B.Sc(MECs) II Year, Semester-3 that the Department of Physics & Electronics is organizing a Computerized Quiz program (Jeopardy-2022) on 08<sup>th</sup> Aug 2022 at 1.30 pm in the Lecture Hall No. 508, V floor. Interested students can give their name to CR of the respective class.

M. Laxminarsimha Rao

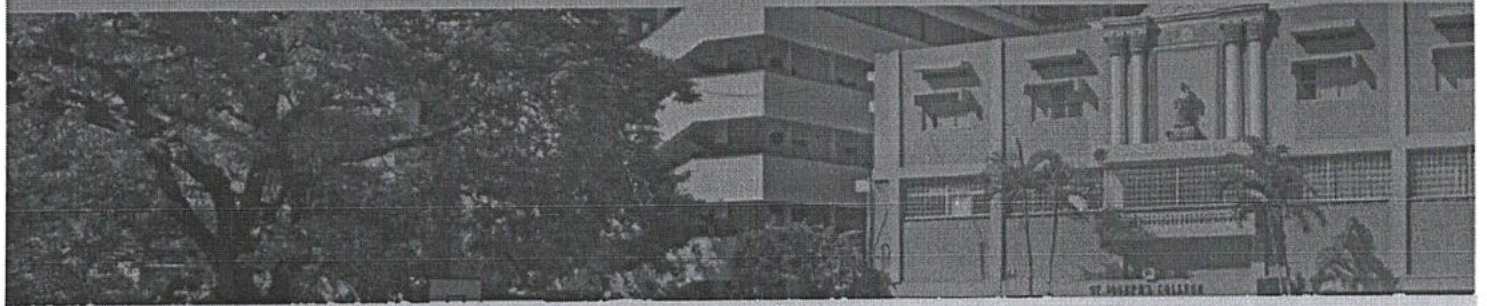
HoD, Dept. of Physics & Electronics

Principal

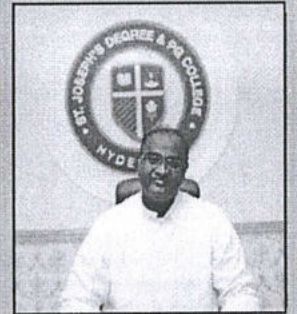
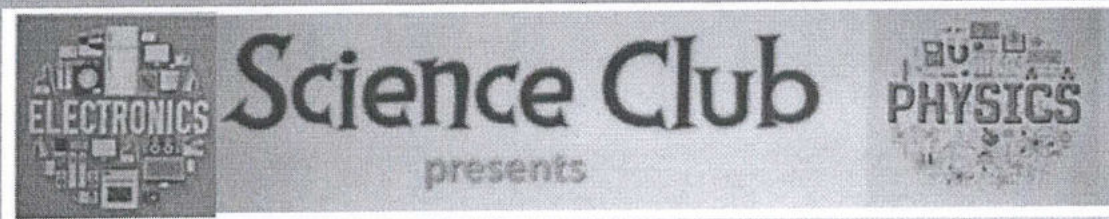
(Fr. Dr. D. Sunder Reddy)



**ST. JOSEPH'S**  
DEGREE & PG COLLEGE  
HYDERABAD, INDIA.



## Department of Physics & Electronics



Fr. Dr. D. Sunder Reddy  
Principal

# Jeopardy-2022

**(Computerized Quiz)**

For B.Sc(MPCs & MECs) II Year

On 08-08-2022 From 1.30 PM, at Lecture's Hall 508, V Floor



**Quiz Master:**  
M. Laxminarsimha Rao  
HoD, Dept. of Physics & Electronics

### Student Coordinators:

S. Jyostna Sree  
Sahil Upadyay  
M. Pradeep Kumar  
Alladi Adarsh  
G. Dinesh Kumar  
Mirza Rizwaan Ali Baig



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## Department of Physics & Electronics

### Report Induction Programme for B. Sc (MPCs/MECs) II Year Students

**Date: 8th August 2022**

**Venue: Lecture Hall No. 508**

**Time: 1:30 P.M – 3:00 P.M**

**Organized by: M. L. N. Rao, HoD.**

**Target Group: B.Sc (M.P.Cs/M.E.Cs) II Year students**

The Quiz is computer based which is organized in rows (6) and columns (5). It has five columns and each column is specific group like, Current affairs, Science, Aptitude, IT etc. The questions displayed on the screen with their marks. The first question in all the columns has 5 marks, second 10, third 20, fourth 40 so on. Participants can select any question in any group. If they answer correct they get the marks displayed on the question, or else same number of marks will be deducted from the total. The time given to answer the question is 60 seconds. Five groups participated in the quiz program and each group has four participants. The following are the participants with their team name.

1. C. V. Raman Team

- Neeraja
- Durga
- Divya
- Harsha

2. J. C. Bose Team

- Richard
- Melvin
- Vaishnavi
- Sowrya

3. Newton Team

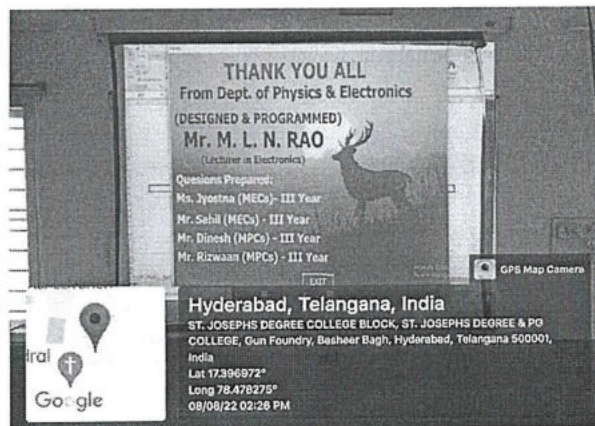
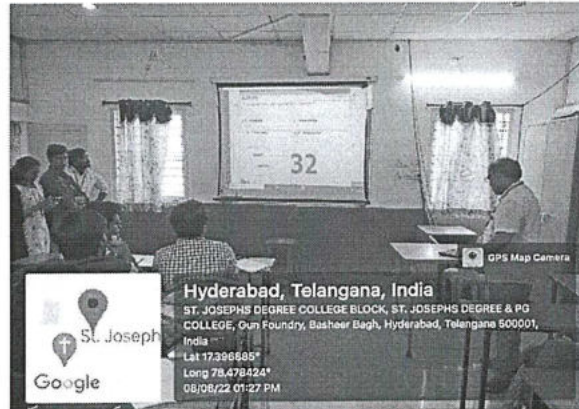
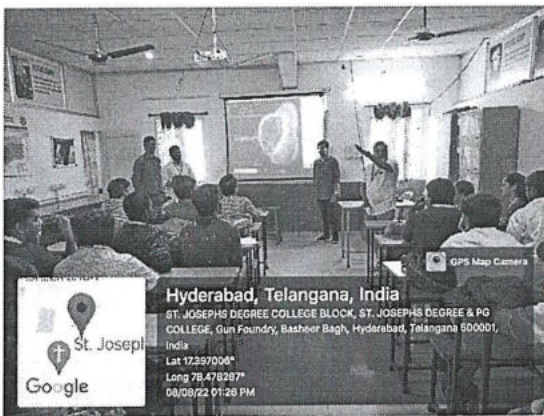
- Aakash
- Manideep
- SaiTeja
- Upender

#### 4. Kirchhoff Team

- Moksha
- Joseph
- Vikranth
- Sylvester

#### 5. Einstein Team


- Prabhakar
- Manikanta
- Sayeed
- Omar




Students participated enthusiastically and displayed their knowledge in various groups

**Winners:**

SNo.	Participant Name	Team Name	Prize
1	Moksha Joseph Vikranth Sylvester	Kirchhoff	1 <sup>st</sup> Prize
2	Prabhakar Manikanta Sayeed Omar	Einstein	2 <sup>nd</sup> Prize
3	Richard Melvin Vaishnavi Sowrya	J. C. Bose	3 <sup>rd</sup> Prize

  
HOD  
Mr. M.L.N. Rao

  
Principal  
Fr. Dr. D. Sunder Reddy



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## Department of Physics & Electronics

### Report on B.Sc (MPCs/MECs) II & III Year Orientation Programme

**Date : 11th July 2022**

**Venue : Online Google Meet**

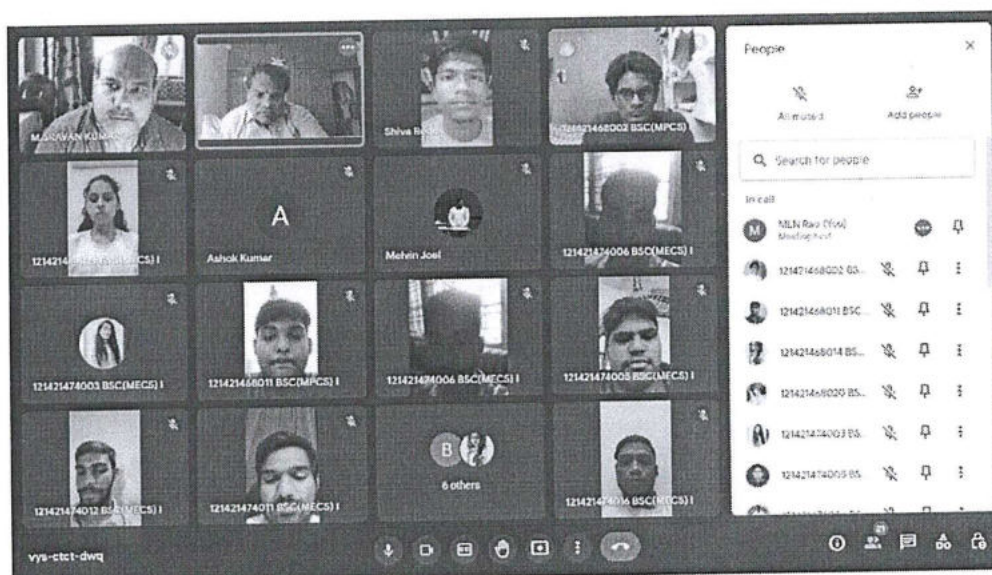
**Time :9:00 A.M – 1:00 P.M**

**Organized by: Department of Physics & Electronics**

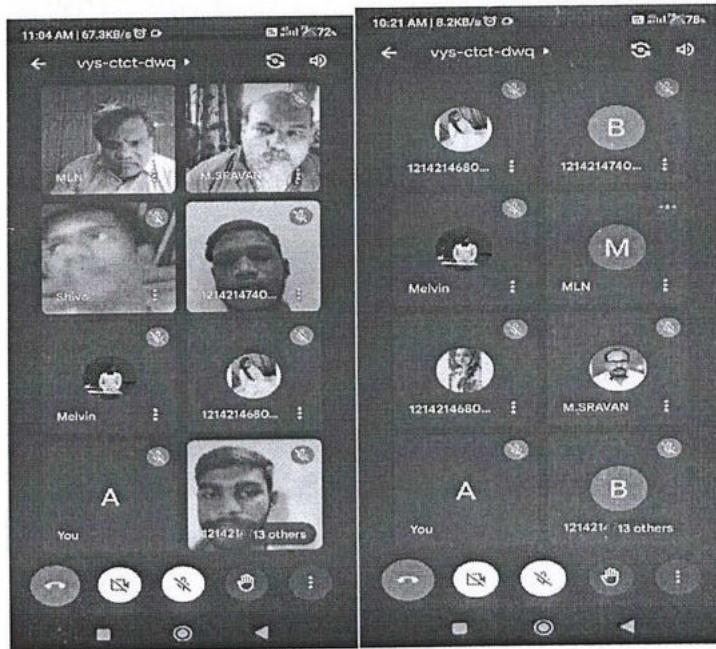
Faculty Coordinators : Mr M L N Rao HoD, Mr. M. Sravan Kumar and Mr.R.Ashok Kumar

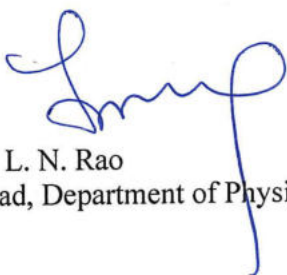
Target Group : II & III year students of B.Sc(M.P.Cs/M.E.Cs).


**Report:** The Orientation program to the second and final year students of B. Sc (MPCs & MECs) was conducted on 11th July 2022 on the first day of the College reopening. Mr. M. L. N. Rao, Head - Department of Physics & Electronics, oriented the students on campus culture, discipline, projects and academic planner for the semester. Mr. Sravan Kumar and Mr. Ashok Kumar oriented the students about their respective curriculum, and the significance of project to the final year students and Skill Enhancement Course to the second years. And also briefed the objectives and outcomes of the Courses briefly to the students.



Professor Anitha, Controller of Examination explained the process of the examinations and the importance of internal exams and marks. Dr. Sridhar Reddy Physical Director, oriented about selections, sports and tournaments conducted in the academic year.



  
M. L. N. Rao  
Head, Department of Physics & Electronics

  
Principal  
Fr. Dr. D. Sunder Reddy



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**BSc MPCs - FINAL YEAR 2022-23**

**A Report on FIELD VISIT TO ARCI (INTERNATIONAL ADVANCED RESEARCH CENTRE FOR POWDER METALLURGY AND NEW MATERIALS)**

**OBJECTIVE OF THE EVENT:** To introduce, educate and create an awareness among students on different aspects of nanomaterial, metallurgy and solar energy.

**DATE & TIME:** 24<sup>th</sup> August 2022 9:00am to 3:00pm

**VENUE:** ARCI, RCI road, Balapur- Airport Road, Balapur, Telangana.

**TOTAL NO. OF PARTICIPANTS:** 24

**FACULTY CO-ORDINATOR:** Dr M. Sravan Kumar

**STUDENT CO-ORDINATORS:** Mirza Rizwan Ali Baig, Alladi Adarsh Krishna, D. Gopi Krishna, G. Dinesh Kumar, A. Vamshi Reddy, Swamy Prithviraj.

**TARGET AUDIENCE:** Students of BSc MPCs final year

**A BRIEF REPORT:**

The field visit, planned by Dr M. Sravan Kumar, opened the eyes of students to the world of research, specifically in nanomaterials, Metallurgy and Solar Energy. It was a huge success in terms of introducing and educating students about the ongoing research, in ARCI, in the above-mentioned fields.

As mentioned above the students visited three departments/laboratories in the ARCI. Namely:

- 1) Nano-Material
- 2) Powder Metallurgy
- 3) Solar energy

The scientific instruments related to the production of different raw/final materials were demonstrated by the Scientists and PhD scholars of ARCI and they gave the students a brief about the principles of those complex scientific instruments. Students were welcomed with a warm speech from Assistant Director Dr Ravichandra.

**Nano-material –**

“Study of particles of the order of  $10^{-9}$  is Nanotechnology. We are interested in such a small order the surface area is significantly greater” said the Scientist Dr Dibyendu Chakrawarty. The machine used for making Nanoparticles called Milling Machine was the first machine that was shown to the students. According to the scientist Dr Dibyendu Chakrawarty, the machine consumes more electrical power but is time efficient. The students were oriented on the different projects that the nanotechnology department is currently undertaking, including the tungsten alloy used in the making of many Indian missiles.

Then the Superplasma sintering methodology of joining the atoms or molecules together. “This method is more efficient than the conventional rolling method”, said the guide. The process of making aerogel which is used as a lightweight insulator in many industrial



machineries was explained. The principle behind self-cleaning textiles was explained to the students. The making of LFP batteries and supercapacitors was explained using the models and the drawbacks of the conventionally used li-ion battery were highlighted. The superconductor is made using carbon from coke and by burning jute.

#### **Metallurgy:**

The introduction and tour of the Metallurgy department were taken care of by senior scientist Dr Ravi. Metallurgy, the department where the structure of the matter, especially metals, is described using the grain structure of the metal. Different machines are used to grind and then polish the surface before observing it in the TEM (Travelling Electron Microscope) and SEM (Scanning Electron Microscope) and then the properties are characterized by the X-Ray Diffractometer (XRD), Macro Tensile Testing machine and Micro Tensile Testing Machine.

#### **Solar Energy:**

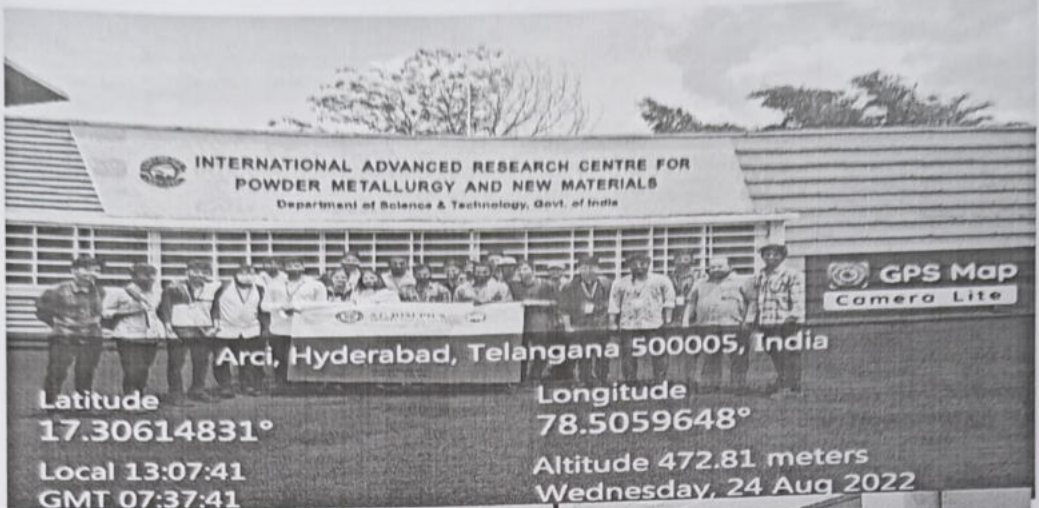
“On a large scale, Silica is used in solar panels, which is the first generation of solar panels. The third-generation solar panels use Perovskite, as it can be given a particular colour, aesthetically appealing, and they are more efficient.” said the PhD scholar. Perovskite, a compound of the form  $ABX_3$  which is a chemically active substance, is coated with different layers which enhances the quality of the light entering the plate. It even converts the UV rays into the visible spectrum to increase the efficiency of every plate. Ongoing research focuses on making the plates more efficient by converting all the waves coming from the sun.

At the outset students of B.Sc. (MPCs) thanked principal Rev. Fr. Dr. D SUNDER REDDY for his guidance and permission to visit the ARCI.

Finally, students thanked the Head of the Department Mr. M L N Rao for his encouragement and Physics Faculty Sravan Kumar for motivation and necessary arrangements and ever ending support.

#### **OUTCOME OF THE EVENT:**

- Created interest and motivated the students to pursue research in future after master Degree program.
- Students learned the techniques and material preparations under Nano scale, metallurgy, Li-ion Battery synthesis reactions.
- Alternate battery sources material synthesis processes.
- Solar technology and relevant material preparations and characterisations for the commercial usage.



Arci, Hyderabad, Telangana 500005, India

Latitude  
17.30614831°

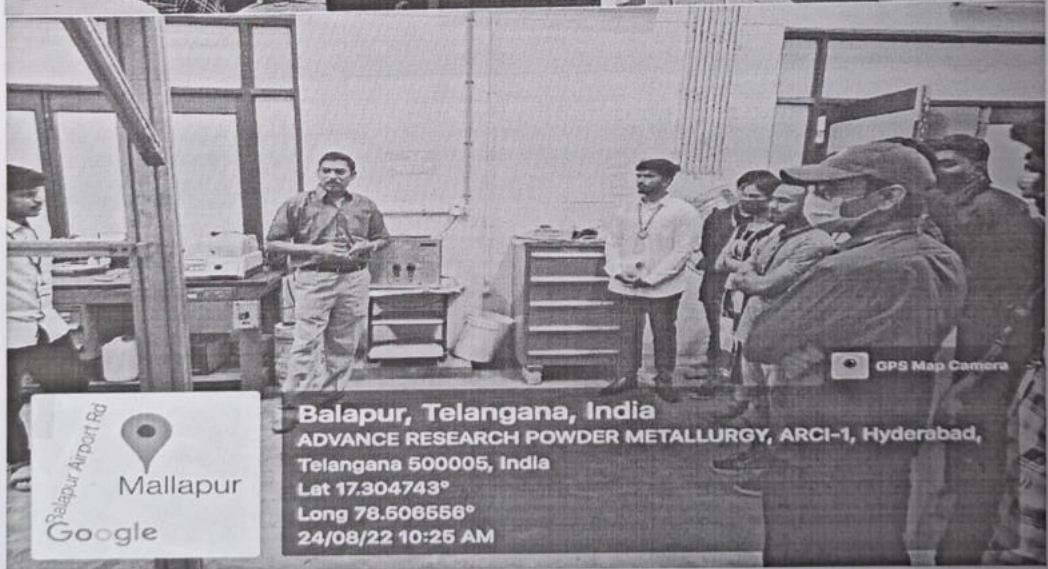
Longitude  
78.5059648°

Local 13:07:41  
GMT 07:37:41

Altitude 472.81 meters  
Wednesday, 24 Aug 2022



9/24/22  
11:43 AM



Balapur, Telangana, India  
ADVANCE RESEARCH POWDER METALLURGY, ARCI-1, Hyderabad,  
Telangana 500005, India  
Lat 17.304743°  
Long 78.506558°  
24/08/22 10:25 AM

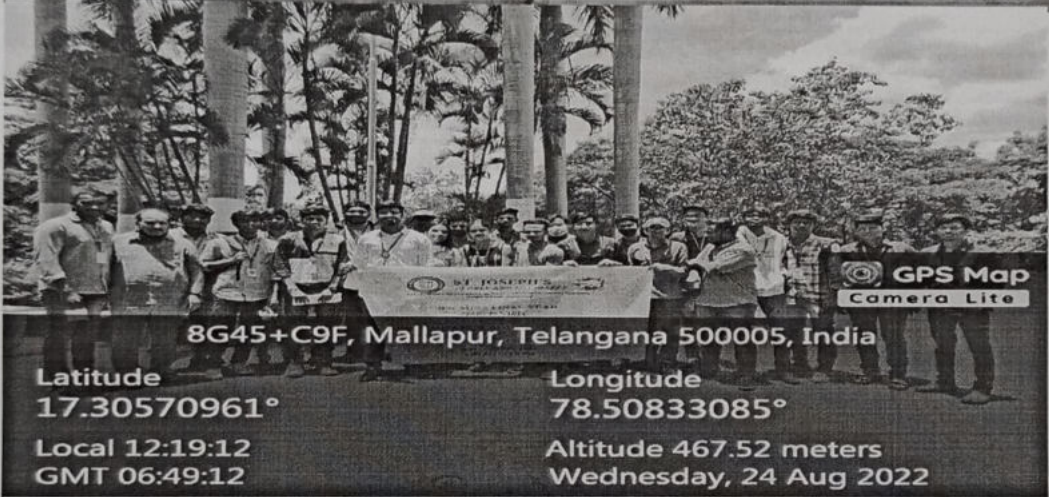




Balapur Airport  
Mallapur  
Google

Balapur, Telangana, India  
ADVANCE RESEARCH POWDER METALLURGY, ARCI-1, Hyderabad,  
Telangana 500005, India  
Lat 17.304734°  
Long 78.506614°  
24/08/22 10:20 AM

GPS Map Camera



Latitude  
17.30570961°  
Local 12:19:12  
GMT 06:49:12

Longitude  
78.50833085°  
Altitude 467.52 meters  
Wednesday, 24 Aug 2022

8G45+C9F, Mallapur, Telangana 500005, India

GPS Map  
Camera Lite

*M.S. Sravan Kumar*  
03/09/2022

CONVENOR

M.SRAVAN KUMAR

*Dr. A. Danam*

IQAC

DR.A. DANAM

*Fr. Dr. D. Sunder Reddy*

PRINCIPAL

FR.DR.D. SUNDER REDDY



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S.NO	ROLL NUMBER	NAME OF THE STUDENTS	BACKGROUND STATUS
1	1214-20-468-001	ALLADI ADARSH KRISHNA	Inter- 959 $\mathcal{S}$ GPA(Sem-3)-9.8
2	1214-20-468-003	DONTHULA GOPI KRISHNA	Inter-900 $\mathcal{S}$ GPA(Sem-3)-9.48
3	1214-20-468-004	ROUNAK TIWARI	Inter-820 $\mathcal{S}$ GPA-7.9
4	1214-20-468-005	GURRALA.E.S. KUMAR	Inter-837 $\mathcal{S}$ GPA(Sem-3)-9.454
5	1214-20-468-006	GUTTULA DINESH KUMAR	Inter-968 $\mathcal{S}$ GPA(Sem-3)-9.86
6	1214-20-468-010	KANTI BALASHIVA GOUD	Inter-850 $\mathcal{S}$ GPA-8.5
7	1214-20-468-012	MIRZA RIZWAN ALI BAIG	Inter- 804 $\mathcal{S}$ GPA(Sem-3)-9.2
8	1214-20-468-016	RAPAKA PAULINE SMITH	Inter-754 $\mathcal{S}$ GPA- 8.9
9	1214-20-468-017	SWAMY PRITHVIRAJ	Inter- 923 $\mathcal{S}$ GPA(Sem-3)-9
10	1214-20-468-018	SHREYASH PATKI	Inter- 530 $\mathcal{S}$ GPA(Sem-3)-7.5
11	1214-20-468-019	SYED AZIZ	Inter- 560 $\mathcal{S}$ GPA(Sem-3)-7.5
12	1214-20-468-023	VARDHAN REDDY	Inter- 660 $\mathcal{S}$ GPA(Sem-3)-8.0
13	1214-20-468-024	MADDELA JAGAN MOHAN	Inter- 638 $\mathcal{S}$ GPA(Sem-3)-8.2
14	1214-20-468-025	PREETHI JAKHAR	Inter-858 $\mathcal{S}$ GPA(Sem-3)-8.9
15	1214-20-468-026	SYED SHAH IFTEQUAR UDDIN	Inter-853 $\mathcal{S}$ GPA(Sem-3)-9.1
16	1214-20-468-028	KURAKULA SIDDHANTH	Inter-850 $\mathcal{S}$ GPA(Sem-3)-9
17	1214-20-468-030	K VARA PRASAD	Inter-480 $\mathcal{S}$ GPA- 7.2
18	1214-20-468-031	PINEMULA ARUN KUMAR	Inter-853 $\mathcal{S}$ GPA(Sem-3)-8.5
19	1214-20-468-032	BAVANA KARTHIK	Inter-789. $\mathcal{S}$ GPA-8.2
20	1214-20-468-038	NAKIRTHA SAGAR	Inter-808 $\mathcal{S}$ GPA-8.7
21	1214-20-468-040	AMBEKAR LAKSHMAN VISHAL RAO	Inter-792. $\mathcal{S}$ GPA-8

*Soumy*



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## ATTANDANCE SHEET

24-08-2022

ROLL NUMBER	NAME OF THE STUDENTS	SIGNATURE
1214-20-468-001	ALLADI ADARSH KRISHNA	A. Adarsh Krishna
1214-20-468-003	DONTHULA GOPI KRISHNA	D. Gopi
1214-20-468-004	ROUNAK TIWARI	R. Tiwari
1214-20-468-005	GURRALA.E.S. KUMAR	G. E.S. Kumar
1214-20-468-006	GUTTULA DINESH KUMAR	G. Dinesh Kumar
1214-20-468-010	KANTI BALASHIVA GOUD	K. Balashiva Goud
1214-20-468-012	MIRZA RIZWAN ALI BAIG	M. Rizwan Ali Baig
1214-20-468-016	RAPAKA PAULINE SMITH	R. Pauline Smith
1214-20-468-017	SWAMY PRITHVIRAJ	S. Prithviraj
1214-20-468-018	SHREYASH PATKI	S. Shreyash Patki
1214-20-468-019	SYED AZIZ	S. Aziz
1214-20-468-023	VARDHAN REDDY	V. Vardhan Reddy
1214-20-468-024	MADDELA JAGAN MOHAN	M. Jagannohan
1214-20-468-025	PREETHI JAKHAR	P. Preethi Jaxhar
1214-20-468-026	SYED SHAH IFTEQUAR UDDIN	S. Shah Iftuqar Uddin
1214-20-468-028	KURAKULA SIDDHANTH	K. Siddhant
1214-20-468-030	K VARA PRASAD	K. Vara Prasad
1214-20-468-031	PINEMULA ARUN KUMAR	P. Arun Kumar
1214-20-468-032	BAVANA KARTHIK	B. Karthik
1214-20-468-038	NAKIRTHA SAGAR	N. Sagar
1214-20-468-040	AMBEKAR LAKSHMAN VISHAL RAO	← ARSENIUS →
1214-20-468-002	ALLAM VAMSHI REDDY	A. Vamshi Reddy
1214-20-468-034	ROHAN JOY.	R. Joy
121420468020	T. GANESH	T. Ganesh
121420468009	K. GANESH	K. Ganesh
121420468027	G. Venkatesh	G. Venkatesh

*Be my*



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## Feedback form

Date: 24/08/22

Name of the Student: A. Vamsi Reddy

Roll number: 121420468002

Place of Visit: ARC1

### Feedback:

1. Nano Materials (Types like Miller Body), (Sample Machine)  
Formation of Batteries - in 11 layers, Lithium Ion Batteries
2. Super Capacitors, Electro Mechanical Test.
3. Metallurgy (sample materials), Stress and Strain Application  
SAXS → Small Angle X-Rays
4. Macro Hardness Test, Micro Hardness Test of its limits  
Micro l-tave processing,
5. SEM, XRD, CREEP } → Characterization  
XRD-stress, X-Ray

Signature of the candidate

With date and roll number

A. Vamsi Reddy  
24/08

Thermal Evaporation is used for interconnection of solar cell ~~at~~ by sending nitrogen.



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### Feedback form

Date: 24/08/2022

Name of the Student: A. Adarsh Krishna

Roll number: 121420468001

Place of Visit: Advanced Research centre - International (ARCI)

#### Feedback:

1. Wonderful experience to learn about bulk production of Nano Particles of elements like Al.
2. Experienced about the use of Tungsten weights in missiles.
3. Practical experiments of complicated phenomena like X-Ray Diffraction was clearly demonstrated.
4. Futuristic development of solar cells using Perovskite cells was shown.
5. Wonderful place for research scholars and students interested in practical applications.

A. Adarsh Krishna 24/08

Signature of the candidate

(121420468001)

With date and roll number





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### Feedback form

Date: 25-08-2022

Name of the Student: Bavana Karthik

Roll number: 121420468032

Place of Visit: ARCI

#### Feedback:

1. Development of Nanostructured transition metal Sulphides and applications like Li-ion battery electrode material.
2. And we have seen taking some precautions like Security, safety etc.,
3. Scientists and Employees are open to explain their developed new technologies.
4. Very nice and clean campus area but photography is strictly Prohibited.
5. Very good Place. solid research happening there Laser area, Powder Metallurgy.

B. Karthik

Signature of the candidate

With date and roll number

25-08-2022

121420468032



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### Feedback form

Date: 25-08-22

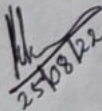
Name of the Student: Rohan Joy

Roll number: 121420468034

Place of Visit: ARCI

#### Feedback:

1. We learnt a lot about metallurgy and its applications in the real world.
2. We got to learn about mineral processing methods which were unheard of before.
3. We learnt about new substances such as aerogels and hydrophobic and self cleaning coatings.
4. We learnt about the latest technology in solar energy.
5. Overall it was very informative and an exciting way to learn about the field from the experts of their craft.

  
25/08/22

121420468034

Signature of the candidate

With date and roll number



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## Feedback form

Date: 24/08/22

Name of the Student: Seamy Prithvi

Roll number: 12142046901A

Place of Visit: International Advanced Research Center (ARCI)

### Feedback:

1. We had a great experience of this Industrial visit
2. we learnt a lot like nano materials how
3. nano materials are prepared what are the uses of
4. that. and we also learnt how the batteries
5. are made in 11 layers, Lithium, Ion Batteries, super  
Capacitors, electro mechanical tests. we also learnt get  
to know that how our future will be from this Batteries,  
and X-ray diffraction for the machines work. and we  
got a more knowledge about solar system and how  
it will clean the chemical from the dust without work.

Thank you sir for this opportunity.

Signature of the candidate

With date and roll number

S. Prithvi

24/08/22

12142046901A



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### Feedback form

Date: 24/8/22

Name of the Student: Rounak Tiwari

Roll number: 121420468004

Place of Visit: ARCI

#### Feedback:

1. It was a very good experience.
2. It was informative.
3. got information and knowledge about nano Science
4. Explanation about all was nice
- 5.

*Rounak Tiwari*

Signature of the candidate

With date and roll number

121420468004  
24/8/22



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### Feedback form

Date: 25/8/22

Name of the Student: Shreyash Patki

Roll number: 121420468018

Place of Visit: ARCI

#### Feedback:

1. It was informative
2. It was a great experience
3. Solar got informed and knowledge about nano Science
4. Explanation about cell was nice
5. got information about Solar power thermal power

Signature of the candidate

With date and roll number

121420468018

25/8/22



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### Feedback form

Date: 25/8/22

Name of the Student: Syed Aqib

Roll number: 121420468019

Place of Visit: ARCI

#### Feedback:

1. It was a good informational experience about nano & micro science.
2. Got knowledge about interesting technologies like self-cleaning clothes etc.
3. More interesting technologies like Anti-fogging, Anti-reflective materials for solar panels.
4. Learned how solar energy is used & converted to thermal energy & electrical energy.
5. Thanks to Sooran Sir for giving us the opportunity to explore this interesting technologies!

Signature of the candidate

With date and roll number

121420468019

25/8/22



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### Feedback form

Date: 26/12/22

Name of the Student: Vardhan Reddy

Roll number: 12/420468023

Place of Visit: ARCS

#### Feedback:

1. The staff were very welcoming and were patient when we asked doubts.
2. There were PhD students who were our age and they explained everything well.
3. The campus was very well maintained with big equipment.
4. We got to learn so much about metals and their properties.
5. Our accompanying lecturer, Sravan Sir was very accommodating and helped us get the best experience.

Vardhan  
26/12/22

Roll number: 12/420468023

Signature of the candidate

With date and roll number



## ST. JOSEPH'S DEGREE & PG COLLEGE

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King Koti Road, Hyderabad

### Feedback form

Date: 24/08/22

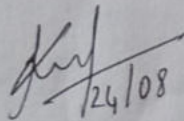
Name of the Student: G. G. S. Kumar

Roll number: 121420468005

Place of Visit: ARCI

#### Feedback:

1. We had a great experience in learning new things in materialistic physics.
2. learnt about nano particles of elements.
3. Demonstration of X-Ray diffraction phenomena.
4. the development of solar cells using perovskite cells was shown.
5. Wonderful place to know more about the materialistic physical & to do research for physics careers.

  
24/08

Signature of the candidate

With date and roll number

121420468005





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### Feedback form

Date: 25/08/22

Name of the Student: Syed Shah Jftequar voldin

Roll number: 121420468026

Place of Visit: ARLI

#### Feedback:

1. I have learnt a lot as I am going for research in my future it is very wonderful and useful for me.
2. I got to learn how things are done and its methods.
3. We learnt about the chemicals which are used to make shell and how it reacts.
4. We learnt about the technology in solar energy.
5. At last it was very informative and a wonderful. I learnt a lot from this (Thanks for the Physic Sir who takes us for this field visit).

Signature of the candidate

With date and roll number 121420468026



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Fr. Dr. D. Sundheer Reddy  
Principal



## INDUSTRIAL VISIT

INTERNATIONAL ADVANCED RESEARCH CENTER FOR  
POWDER METALLURGY AND NEW MATERIALS (ARCI)

BSC.MPCS, Final year  
Date: 24<sup>th</sup> August 2022  
Time: 9:00am onwards

CONVENER:

M. SRAVAN KUMAR



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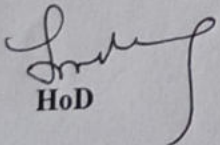
Ref: SJC/P&E/2022-23/002

21/08/2022

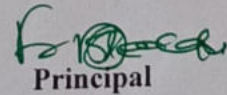
## DEPARTMENT OF PHYSICS & ELECTRONICS

### NOTICE

This is to inform the students of B.Sc MPCs III Year that the Department of Physics & Electronics is organizing Industrial visit (Field visit) to “**International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI)**” on 24<sup>th</sup> August 2022 from 9:00 am to 3:00pm at ARCI, Balapur.

  
HoD

Mr. M. L. N Rao

  
Principal

Fr. Dr. D. Sunder Reddy



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