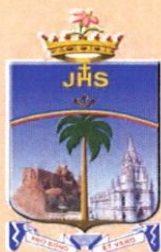




**AQAR 2020-21**

### **3.3 Innovation Ecosystem**

#### **3.3.2: Workshops /Seminars on IPR / Industry Academia Initiatives – Physics**



## **DEPARTMENT OF PHYSICS**

**SCHOOL OF PHYSICAL SCIENCES**

### **St. JOSEPH'S COLLEGE (Autonomous)**

Special Heritage Status awarded by UGC, Accredited at 'A++' Grade (4<sup>th</sup> Cycle) by NAAC  
College with Potential for Excellence by UGC, DBT - STAR & DST - FIST sponsored College

**TIRUCHIRAPPALLI - 620 002, INDIA**

**Cordially invites you to the**  
**Bharat Ratna Dr. APJ ABDUL KALAM**  
**ENDOWMENT LECTURE (2020-2021)**  
(Instituted by Faculty, Donors, Well Wishers & Alumni)  
**on**  
**24<sup>th</sup> March 2021, Wednesday at 11:30 am**  
**in the TV Hall of our College**

**Rev. Dr. S. SANTIAGO SJ**  
*Vice-Principal (Shift-II), St. Joseph's College*  
*will preside*

### **Dr. P.A. SARAVANA PERUMAL**

Scientist / Engineer SG, Dy. Gen. Manager  
SBSP / VALF, SDSC SHAR, ISRO, Sriharikota - 524124  
*will deliver the Endowment Lecture on*

**"LAUNCH VEHICLES AND  
SPACE ACTIVITIES IN INDIA"**

*All Are Invited*

**Department of Physics, St.  
Joseph's College (Autonomous), Tiruchirappalli - 2**

**Physics Report (2020 - 2021)**

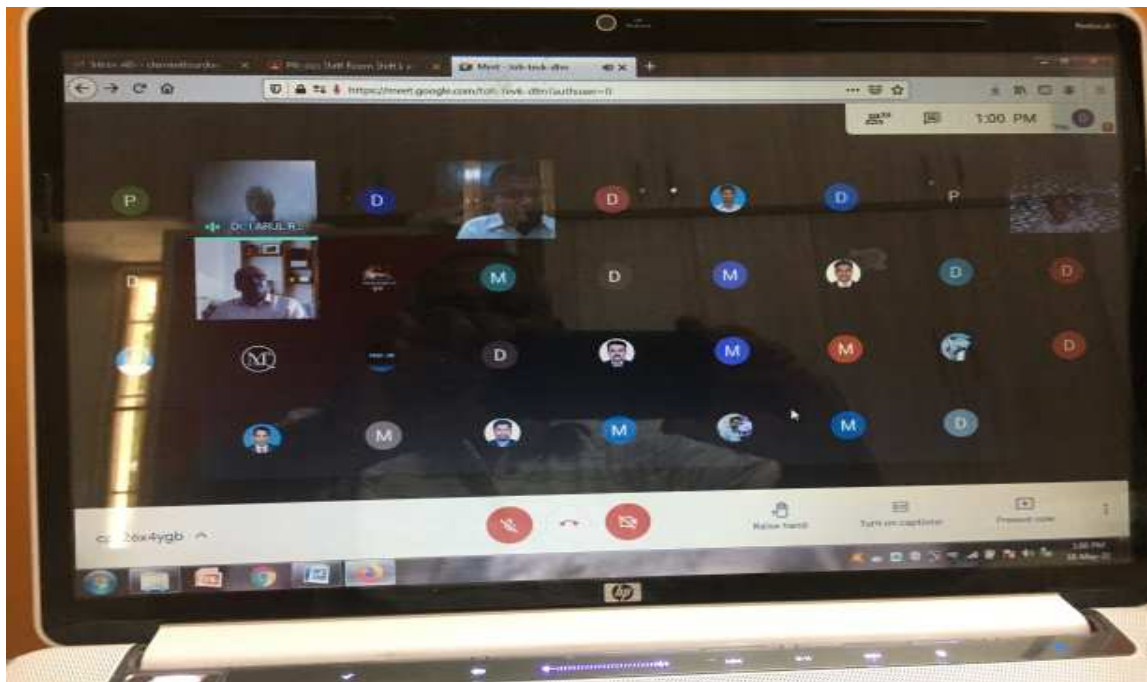
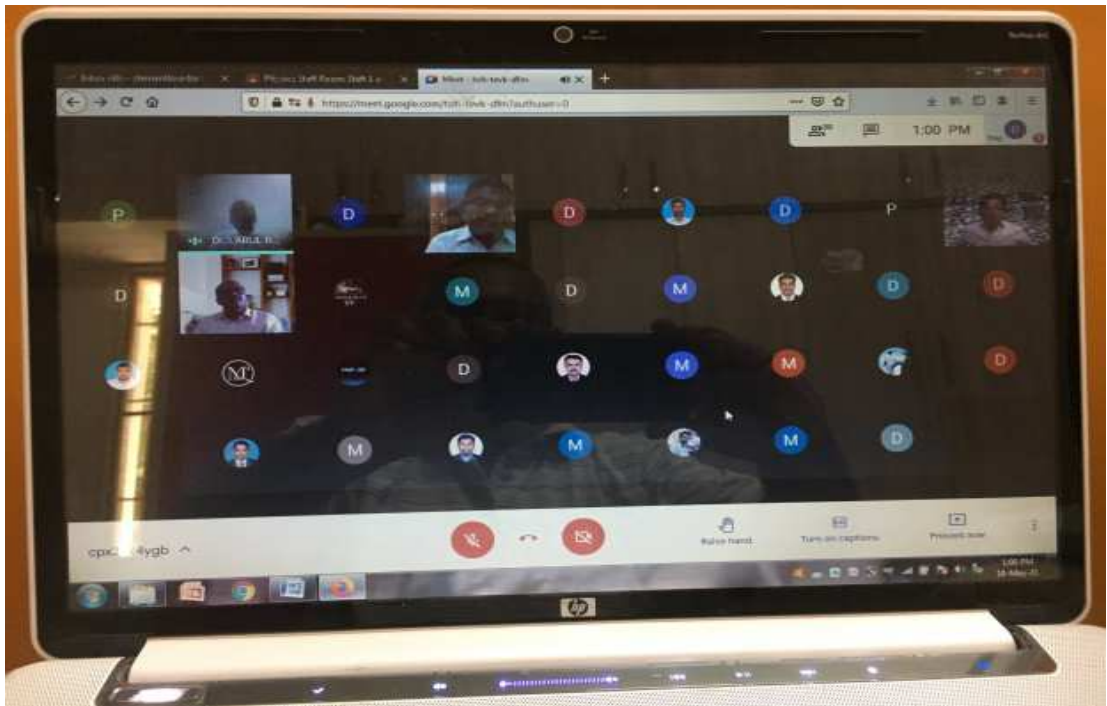
Dr. APJ Abdul Kalam Endowment lecture held on 24<sup>th</sup> March 2021 through google classroom (Online mode) at 11.30 am. Rev. Dr. S. Santiago SJ, Vice-Principal (Shift – II), St. Joseph's College, Trichy, preside the meeting. Dr. P. A. Saravana Perumal, Scientist/Engineer-SG, Dy.General Manager, SBSP / VALF, SDSC SHAR, ISRO, Sriharikota – 524124 delivered the Endowment Lecture on "Launch vehicles and Space activities in India " More than 200 participants were participated.



MRC Member

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## **DEPARTMENT OF PHYSICS**

**St. Joseph's College (autonomous), Tiruchirapalli – 620002**

**Nationally Accredited at A++ Grade (4<sup>th</sup> cycle) by NAAC**

**College with Potential for Excellence by UGC**

**DBT – STAR & DST – FIST Sponsored College**

**Phone: 0431 – 4226438, 2700320, Fax: 0431 – 2701501 Website: [www.sjctni.edu](http://www.sjctni.edu)**

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**Cordially invites to**

**REV. FR. G. A. SAVARIRAJ AND PROF. S. ANTONYRAJ**

**ENDOWMENT LECTURE – IV (2020 – 2021)**

**(Instituted by Prof. S. Antony Raj)**

**On**

**23<sup>rd</sup> February 2021, Tuesday at 11.00 am in the SAIL Auditorium**

**Rev. Dr. M. Arockiasamy Xavier SJ**

**Principal, St. Joseph's College (autonomous)  
will preside over the function**

**Dr. V. Masilamani**

**Professor (Retd.), Kind Saud University**

**Saudi Arabia**

**will deliver the Endowment Lecture  
on**

**LASER INTERFEROMETRIC GRAVITATIONAL WAVE OBSERVATORY**

**ALL ARE INVITED**

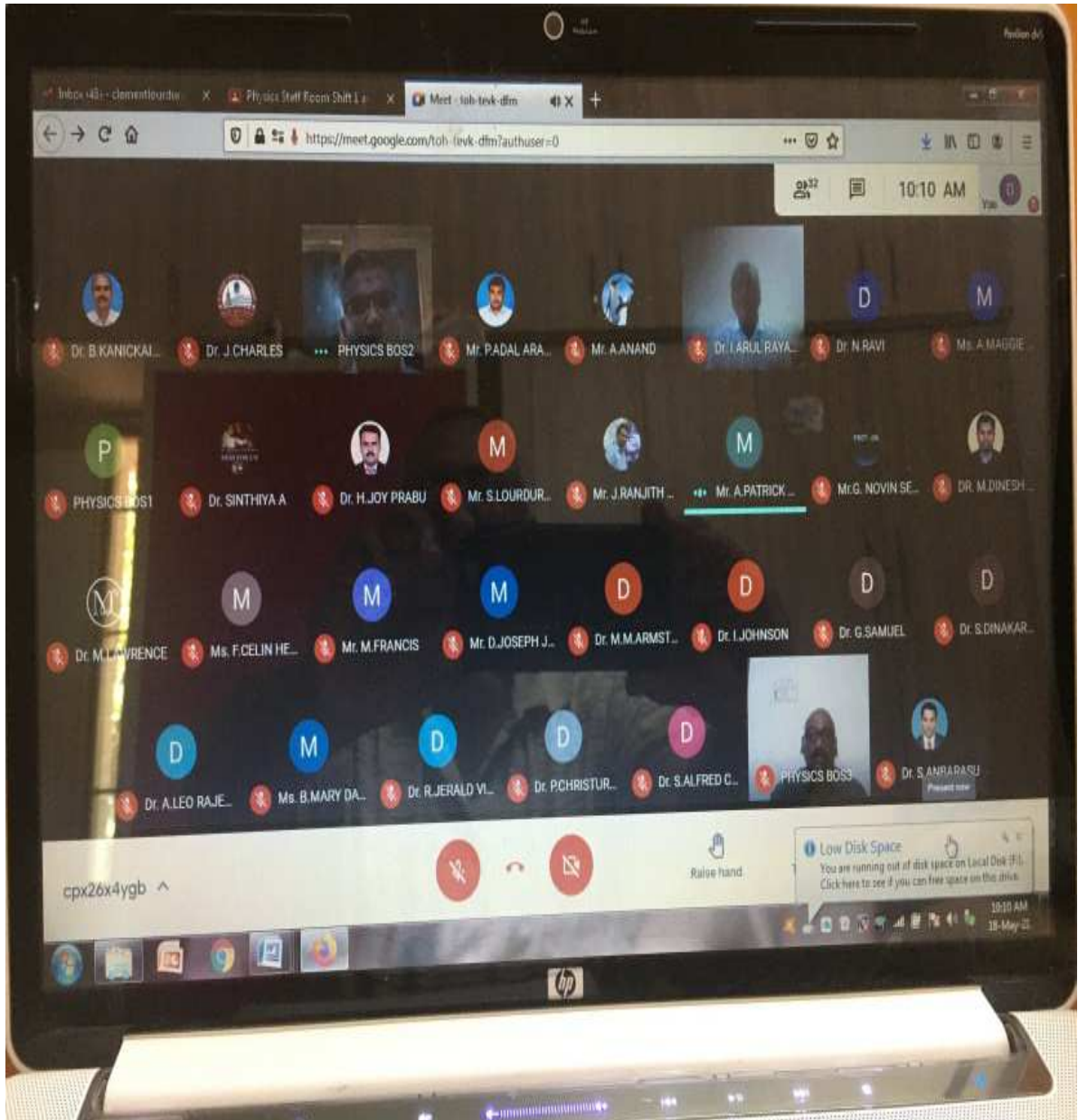
**Department of Physics, St.  
Joseph's College (Autonomous), Tiruchirappalli - 2**

**Physics Report (2020 - 2021)**

Rev.Dr.G.A.Savari Raj SJ, Prof. S. Antony Raj. Fourth Endowment lecture held on 23<sup>rd</sup> February 2021 in SAIL Auditorium (Partially Physical and Online mode) at 11.00 am. Rev. Dr. M. Arockiasamy Xavier SJ, Principal, St. Joseph's College, Trichy, preside the meeting. Dr. V. Masilamani, Professor (Retd.), King Saud University, Saudi Arabia, delivered the Endowment Lecture on "LASER INTERFEROMETRIC GRAVITATIONAL WAVE OBSERVATORY" Dr. S. Alfred Cecil Raj chaired the session. More than 150 participants were participated.



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**DEPARTMENT OF PHYSICS**  
**St. Joseph's College (autonomous), Tiruchirapalli – 620002**  
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**Cordially invites to**

**PROF. S. T. RAJAN ENDOWMENT LECTURE – V (2020 – 2021)**

**(Instituted by Prof. S. T. Rajan's Brothers & Sisters)**

**On**

**23<sup>rd</sup> February 2021, Tuesday at 9.30 am in the SAIL Auditorium**

**Rev. Dr. M. Arockiasamy Xavier SJ**

**Principal, St. Joseph's College (autonomous)**  
**will preside over the function**

**Dr. K. Marimuthu**

**Assistant Professor, Material Science**  
**Gandhigram Rural University**  
**Gandhigram 624 302**  
**Dindigul**

**will deliver the Endowment Lecture**  
**on**

**RARE EARTH DOPED AND ITS APPLICATIONS**

**ALL ARE INVITED**



**Department of Physics, St.  
Joseph's College (Autonomous), Tiruchirappalli - 2**

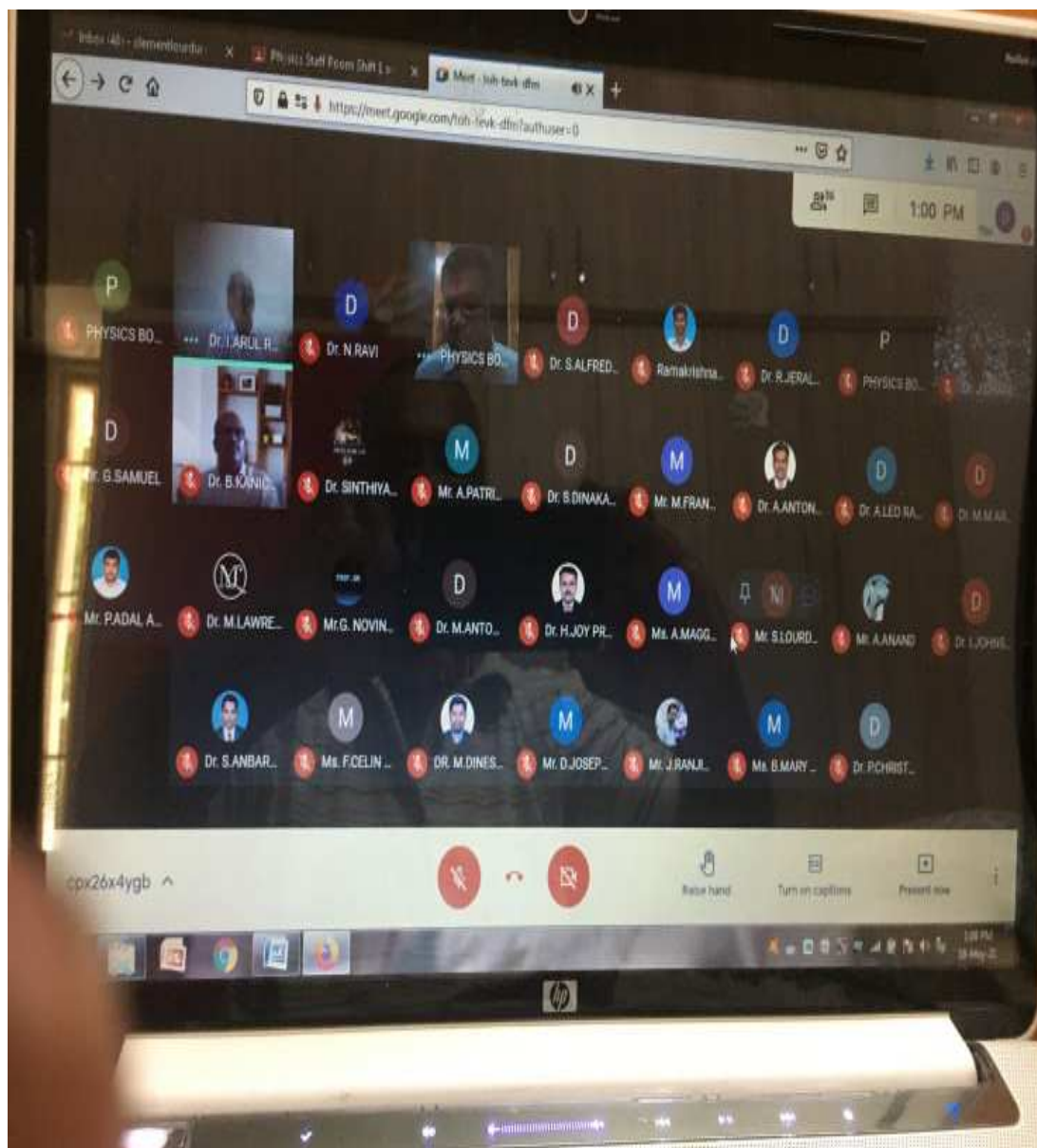
**Physics Report (2020 - 2021)**

Prof. S. T. Rajan Endowment lecture. Fifth Endowment lecture held on 23<sup>rd</sup> February 2021 in SAIL Auditorium (Partially Physical and Online mode) at 9.30 am. Rev. Dr. M. Arockiasamy Xavier SJ, Principal, St. Joseph's College, Trichy, preside the meeting. Dr. K. Marimuthu, Assistant Professor of Physics, Gandhigram Rural University, Gandhigram 624 302, Dindigul, delivered the Endowment Lecture on "RARE EARTH DOPED GLASSES AND ITS APPLICATIONS" Dr. N. Ravi chaired the session. More than 150 participants were participated.



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## **DEPARTMENT OF PHYSICS**

**St. Joseph's College (autonomous), Tiruchirapalli – 620002**

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**Cordially invites to**

**Dr. S. GUNASEKARAN ENDOWMENT LECTURE – I (2020 – 2021)**

**(Instituted by Dr. S. Gunasekaran)**

**On**

**23<sup>rd</sup> February 2021, Tuesday at 12.15 pm in the SAIL Auditorium**

**Rev. Dr. M. Arockiasamy Xavier SJ**

**Principal, St. Joseph's College (autonomous)  
will preside over the function**

**Dr. V. Ramakrishnan**

**F Ins Phy (London)**

**UGC BSR Faculty Fellow, School of Physics, Madurai Kamaraj  
University, Madurai-21.**

**Former Director, IISER Thiruvananthapuram & Former Mentor Director,  
IIIT Kottayam.**

**will deliver the Endowment Lecture  
on**

**OPTICAL SPECTROSCOPIC TECHNIQUES FOR MOLECULAR ANALYSIS**

**Department of Physics, St.  
Joseph's College (Autonomous), Tiruchirappalli - 2**

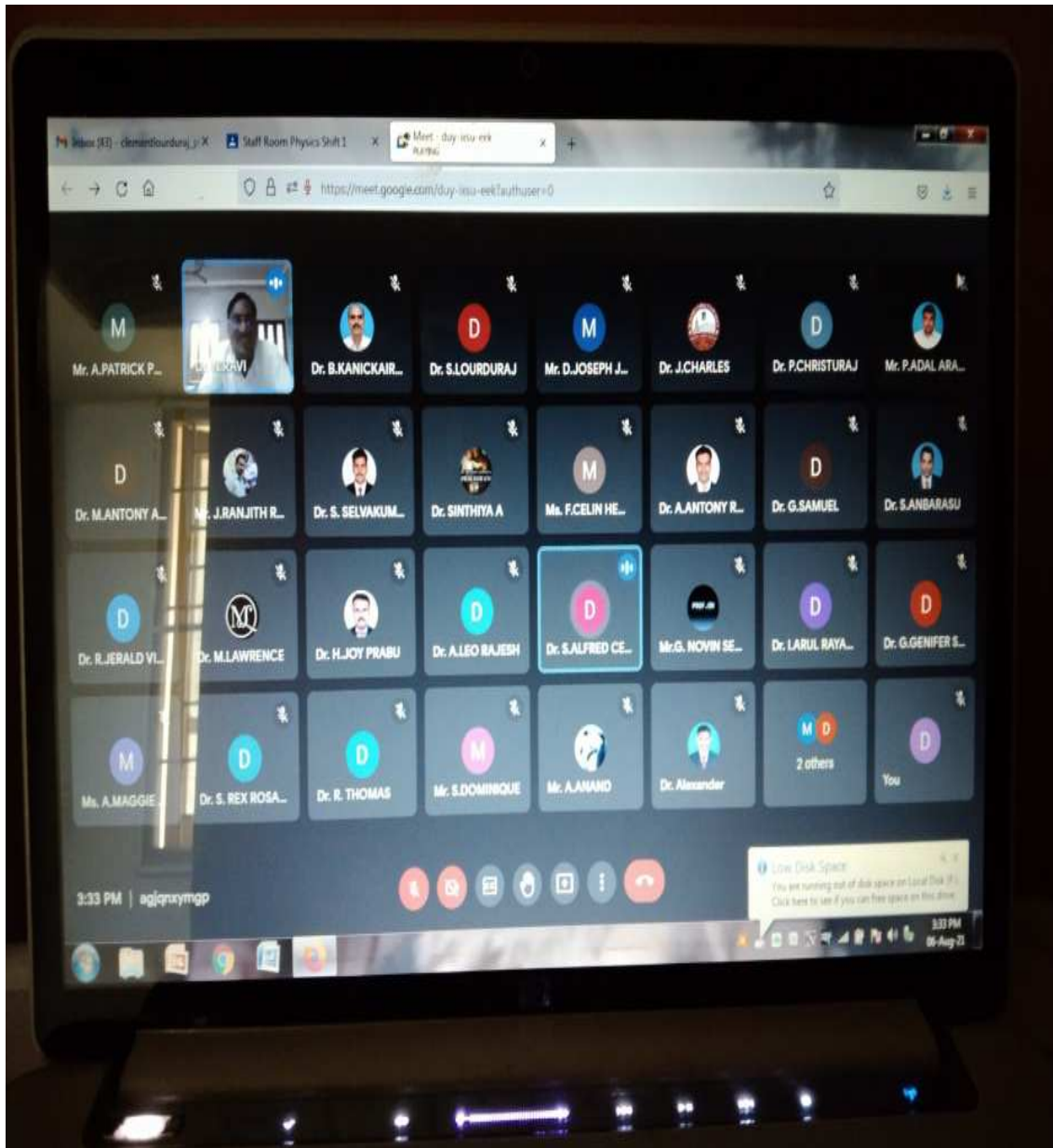
**Physics Report (2020 - 2021)**

Dr. S. GUNASEKARAN ENDOWMENT LECTURE (2020 - 2021) First Endowment lecture held on 23<sup>rd</sup> February 2021 in SAIL Auditorium (Partially Physical and Online mode) at 12.15 pm. Rev. Dr. M. Arockiasamy Xavier SJ, Principal, St. Joseph's College, Trichy, preside the meeting. Dr. V. Ramakrishnan, F Ins Phy (London), UGC BSR Faculty Fellow, School of Physics, Madurai Kamaraj University, Madurai-21. Former Director, IISER Thiruvananthapuram & Former Mentor Director, IIIT Kottayam. delivered the Endowment Lecture on "OPTICAL SPECTROSCOPIC TECHNIQUES FOR MOLECULAR ANALYSIS" Dr. I. Johnson chaired the session. More than 150 participants were participated.



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**SCHOOL OF PHYSICAL SCIENCES**  
**St. JOSEPH'S COLLEGE (Autonomous)**  
 Accredited at 'A++' Grade (4<sup>th</sup> Cycle) by NAAC, Special Heritage Status awarded by UGC  
 College with Potential for Excellence by UGC, DBT - STAR & DST - FIST sponsored College  
**TIRUCHIRAPPALLI - 620 002, INDIA**

**Organizes the**  
**International Webinar on ADVANCED MATERIALS - IWAM 2021**  
**Mar. 3<sup>rd</sup> & 4<sup>th</sup>, 2021, Venue : SAIL Auditorium**

<b>Day - 1:</b>	<b>3<sup>rd</sup> March 2021 @ 02:00 pm</b>	:	<b>INAUGURATION</b>
	Prayer Song	:	
	Welcome Address	:	<b>Dr. I. ARUL RAYAPPAN, Convener -IWAM 2021,</b> Head and Associate Professor of Physics
	Honoring Guests	:	
	Presidential Address	:	<b>Rev. Dr. M. AROCKIASAMY XAVIER SJ, Principal</b>
	Chief Guest & Keynote address:	:	<b>Dr. S. BRAHADEESWARAN</b> Professor and Head Department of Physics UCE- Tiruchirappalli (BIT Campus), Anna University Chennai.
	Vote of Thanks	:	<b>Dr. S. ALFRED CECIL RAJ, Co-Convener- IWAM 2021</b>
	03:30 pm	:	Technical Session I
	Topic	:	Emerging Contaminants Removal using Advanced materials
		:	<b>Dr. S. MELVIN SAMUEL</b> Research Associate, Department of Materials Science and Engineering University of Wisconsin-Milwaukee; WI 53211, United States
	04:30 pm	:	Tea break
	04:45 pm	:	Technical Session II
	Topic	:	Role of Nanotechnology and Nanomaterials In Potential Applications
		:	<b>Dr. V. GUNASEKARAN</b> Assistant Professor, Department of Materials Science, School of Technology, Central University of Tamil Nadu Thiruvavur- 610 005, Tamil Nadu, India
<b>Day - 2:</b>	<b>4<sup>th</sup> March 2021 02.00 pm</b>	:	Technical Session III
	Topic	:	Design and Application of Electrospun Flexible Nanofibers for Batteries
		:	<b>Dr. A. DENNYSON SAVARIRAJ</b> Research Professor, Sunchon National University, South Korea
	03:00 pm	:	Technical Session IV
	Topic	:	Metal-organic frameworks (MOFs) and Metal-Phthalocyanine (M-Ph) Based Materials for Energy Storage and Conversion Applications
		:	<b>Dr. R. RAMACHANDRAN</b> Research Assistant Professor in SUSTech Academy for Advanced Interdisciplinary Studies, Southern University of Science and Technology, Shenzhen, China
	04:00 pm	:	Tea Break
	04:15 pm	:	Technical Session V
	Topic	:	Smart Textile based Resistive Sensors for Wearable Technology
		:	<b>Dr. DEBASIS MAITY</b> Senior Research Scientist, ETH Zürich, D-BSSE, Switzerland
	05:15 pm	:	<b>VALEDICTION</b>
	Prayer Song	:	
	Welcome Address	:	<b>Dr. G. SAMUEL, Coordinator (Shift-II)</b>
	Honoring Guests	:	
	Valedictions	:	
	Valedictory Address	:	<b>Rev. Dr. S. PETER SJ, Secretary</b> <b>Dr. RAMALINGAM PERIASAMY</b> Associate Professor of Engineering Physics and Geology American University of Iraq, Kurdistan Region
	Feedback	:	From the Participants
	Vote of Thanks	:	<b>Dr. N. RAVI, Organizing Secretary-IWAM 2021</b>
	National Anthem	:	



**Department of Physics**  
**St. Joseph's College (Autonomous), Tiruchirappalli - 2**

**International Webinar on Advanced Materials (IWAM-2021)** was organized by the Department of Physics, St. Joseph's College, Trichy on 3<sup>rd</sup> & 4<sup>th</sup> March 2021. Rev. Dr. M. Arockiasamy Xavier SJ, Principal gave presidential address. Dr. S. Brahadeeswaran, Prof. and Head, Department of Physics, UCE-Tiruchirappalli (BIT Campus), Anna University Chennai, delivered the Keynote Address. Dr. S. Melvin Samuel, Research Associate, Dept. of Materials Science and Engineering, University of Wisconsin-Milwaukee, WI 53211, United States, delivered the lecture on Emerging Contaminants Removal using Advanced Materials. Dr. V. Gunasekaran, Assistant Prof. of Materials Science, School of Technology, Central University of Tamil Nadu, Thiruvavur, delivered the talk on Role of Nanotechnology and Nanomaterials in Potential Applications. Dr. A. Dennyson Savariraj, Research Prof. Suncheon National University, South Korea, gave the lecture on Design and Applications of Electrospun Flexible Nanofibers for Batteries. Dr. R. Ramachandran, Research Assistant Prof. in SUSTech Academy for Advanced Interdisciplinary Studies, Southern University of Science and Technology, Shenzhen, China, delivered the lecture on Metal-Organic frameworks (MOFs) and Metal-Phthalocyanine (M-Ph) based materials for energy storage and conversion applications. Dr. Debasis Maity, Senior Research Scientist, ETH Zurich, D-BSSE, Switzerland delivered the talk on Smart Textile based resistive sensors for wearable technology. Dr. Ramalingam Periasamy, Associate Prof. of Engineering Physics and Geology, American University of Iraq, Kurdistan Region gave the Valedictory Address.

Moreover two hundred and twenty participants benefitted in offline and 05 institutions benefitted in online.

  
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