

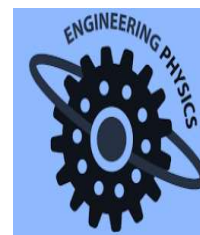


Sapthagiri College of Engineering

(Affiliated to Visvesvaraya Technological University, Belgaum & Approved by AICTE, New Delhi)
14/5, Chikkasandra, Hesarahatta main road, Bangalore -560057

DEPARTMENT OF PHYSICS

Physics Magazine *Where learning never ends...*



News Letter for the AY : 2017-2018

VISION

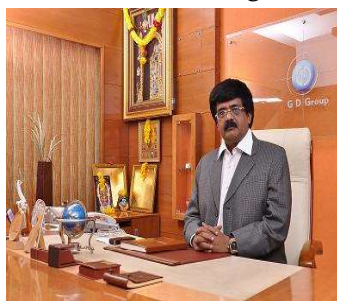
To provide a sound basic education in physics for students planning carrier in engineering.

MISSION

To feed the budding engineer with finer aspects of science which make him understand, exploit and innovate, thus contributing to the technological advancement of tomorrow.

To offer high quality education in engineering physics with practical and provides strong foundation for all branches of engineering and technology.

Chairman's Message



The "PHYSICS MAGAZINE" newsletter of the department PHYSICS is providing great space for the faculty and students to pen down their innovative ideas, imagination and perceptions to show case their creativity. So, I take the opportunity to congratulate the department of ISE and its editorial team to successful release of this issue. I am sure that students and faculty will find the content of this edition very interesting and educating.

Chairman: Sri G. Dayanand

Executive Director's Message

I am indeed happy to know that the department of PHYSICS taken initiative in realizing its monthly newsletter "PHYSICS MAGAZINE" and urge faculties and students to make use of the platform to share and educate among themselves in publishing article pertaining to the emerging domain and articles of interesting. I congratulate the team of editorial community and department of PHYSICS



Executive Director: Sri G. D. Manoj

Principal's Message

It is indeed very happy to bring out newsletter "PHYSICS MAGAZINE" by the department of PHYSICS. It is a platform provided by the department of PHYSICS for their students and faculty members where they can share the knowledge, experience and talents in terms of written articles and I would like to compliment and congratulate the department of PHYSICS and its editorial team for the contribution in bringing out the newsletter.



Dr. K. L. Shivabasappa, Principal

Administrative Officer's Desk



It gives me immense pleasure to note that PHYSICS Department bringing out Newsletter for the academic year 2017-18. I am sure this newsletter provides an opportunity to the student's and the faculty of the department to project their talents through articles, reports of the various academic and extracurricular programmes. I congratulate the editorial committee of the newsletter for their efforts.

Dr. Nagabhushana K. R., Administrative Officer

HOD'S DESK



The Department of Physics has come into existence since the inception of the Institute. The department is involved in teaching the Engineering Physics Theory and Laboratory courses to the students of different Engineering disciplines. The department has six active faculty members and engaged in research and teaching at the frontier areas of experimental physics. Our exceptional research profile directly feeds into our teaching experience. This ensures good academic performance of the students. The Department has been getting excellent results both in theory and practical examinations.

Dr. Jagadeesha Gowda G.V., Prof & HOD

Events Conducted in the Department

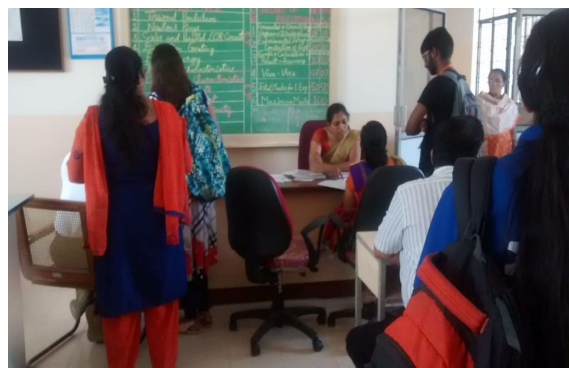
First year student's parent teacher meeting 2017-18

The parent teacher meeting of the first year students was organized by Sapthagiri College of Engineering and Co-ordinated by department of Physics on 22nd December 2018.

- All the parents were intimated about the meeting well in advance through proctors and AMPS as per the direction of Principal, SCE. The interactions with parents started at their respective class rooms of the students, in library block and Physics Lab 10.30 am. Refreshments for parents were also arranged.
- The proctor of each student briefed the parents about the activities and also explained how the college offers the best possible learning environment for the students. Subsequently student's attendance, academic performance and other special programs have been informed to the parents.



Interaction of parents with the Proctor regarding attendance and IA performance and other issues of their wards



Faculty Acheivers



Mr. Keshavamurthy K, working as Assistant Professor in the department of Physics has awarded a Ph.D degree in Physics from Bangalore university.

Name: Dr. Keshavamurthy K
University: Bangalore University
Field: Material Science
Year of Award: August 2018

Dr. Jagadeesha Gowda G V, Professor and Head have written a book on **Praseodymium Doped Silver-Borate Glass**. LAP-LAMBERT Academic Publishing: ISBN: 978-613-9-45081-7.

Publications:

1. K. Keshavamurthy and B. Eraiah, "Europium (Eu^{3+}) doped Silver Lead Borate Glasses for Phosphors Applications," *Bulletin of Materials Science*, 2017, Vol. 40, Page No. 859-863. DOI: [10.1007/s12034-017-1411-3](https://doi.org/10.1007/s12034-017-1411-3)
2. B S Shashikala, H B Prem Kumar, "Synthesis and Photoluminescence studies on orange red colour emitting novel $\text{CaAl}_2\text{O}_4:\text{Sm}^{3+}$ nanophosphor for LED applications," *Material Today: Proceedings*, 2017, Vol.4, Page No.11820-11826.
DOI: [10.1016/j.matpr.2017.09.100](https://doi.org/10.1016/j.matpr.2017.09.100)
3. N Ramprasad, K V Arjunagowda, G V Jagadeesha gowda 2-(5-Methyl-1-benzofuran-3-yl) – N – (2- phenylethyl) acetamide., *IuCrData 2* (2017) 2x170200.

Papers Presented in Conference / Symposium:

1. Jagadeesha Gowda G V, Devaraja C, B Eraiah have presented a paper entitled "Influence of Europium ions on the Optical Properties of Boro-Tellurite Glasses", International Conference on Condensed Matter & Applied Physics, (ICC-2017), held at Bikaner, Rajasthan. November 24-25, 2017.
2. Shashikala B S has presented a paper entitled, "Structural analysis and enhanced photo luminescence via Ce^{3+} in a Tb^{3+} doped CaAl_2O_4 Nano phosphor", National conference on Trends in Advanced Materials and their Applications, held at Tumkur university, Tumkur. November 30, 2017.
3. K. Keshavamurthy and B. Eraiah has presented a paper entitled "Effect of γ -ray Irradiation on Optical Properties of Erbium doped Bismuth-Tellurite Glasses", on 2nd International Conference on Condensed Matter and Applied Physics (ICC-2017) , held at Department of Physics, Govt. Engineering College, Bikaner, Rajasthan, India. November 24-25, 2017.
4. Jagadeesha Gowda G V, Devaraja C, B Eraiah have presented a paper entitled, "FTIR and Raman Studies of Eu^{3+} Ions Doped Alkali Boro Tellurite Glasses", on 63rd DAE Solid State Physics Symposium, held at Guru Jambheshwar University of Science & Technology, Hisar, Haryana India. Dec 18-22, 2018.

Editorial board

Chief Co-ordinator: Dr. Jagadeesha Gowda G V, Prof & HOD, Dept of Physics
Dept Co-ordinator: Mr. Gnanendra D S, Asst Professor, Dept of Physics