



BMS COLLEGE OF ENGINEERING, BENGALURU-19
Autonomous Institute, Affiliated to VTU
Department of Physics, BMSCE, Bangalore-560019

AY 2018-19 (July 2018- June 2019)

1) Dr. Murugendrappa M.V

HOD & Associate Professor, Dept. of Physics

July 4th, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of physics was invited as a Subject expert for Board of Studies meeting at PES College of Engineering, Mandya.



July 16th to 27th, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of physics, organized Two week faculty development program on “Advanced Manufacturing” in association with Department of Mechanical Engineering Sponsored by TEQIP III - Center of Excellence in Advanced Materials Research, BMSCE.

July 20th, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of physics was invited as an expert member for staff selection meeting at BMSIT & M.

September 07-08, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics participated in the fourth World Summit On Accreditation (WOSA-2018) organized by National Board of Accreditation (NBA) at The Ashok, New Delhi.

September 18th 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics attended a meeting with Manipal Academy of Higher Education (MAHE) officials regarding the introduction of paperless exams by M/s. Little more Innovation Labs at various institutes across South India at MAHE.

October 15th, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics conducted a Comprehensive Viva voce Examination as an external examiner of a Ph.D. student, Mrs. Megha R (5VX16PGJ20) of Department of Physics, Government science college,VTU-RRC, Chitradurga by VTU.

October 15th, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics delivered a special talk on “Characterization techniques” at Government science college, VTU-RRC, Chitradurga.



November 01st, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a paper entitled “Experimental Studies of D.C. Conductivity and Thermo Electric Power of Polypyrrole/Titanium Dioxide Nano Composites” in Elsevier: **Materials Today: Proceedings** Volume 5, Issue 10, Part 1, 2018, Pages 20874-20881, ISSN: 2214-7853;, <https://doi.org/10.1016/j.matpr.2018.06.474>

November 01st, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a paper entitled “A.C. Conductivities of Polypyrrole/Titanium Dioxide and Polypyrrole/Titanium Dioxide-MWCNT Nano Composites: A Comparative Study” in Elsevier: **Materials Today: Proceedings** Volume 5, Issue 10, Part 1, 2018, Pages 21217-21224, ISSN: 2214-7853;, <https://doi.org/10.1016/j.matpr.2018.06.521>

November 01st, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a paper entitled “Chemically Synthesized Polypyrrole/Titanium Dioxide-MWCNT (PTM) Nano Composites for Experimental Studies of D.C. Conductivity and Thermo Electric Power” in Elsevier: **Materials Today: Proceedings** Volume 5, Issue 10, Part 1, 2018, Pages 20882-20889, ISSN: 2214-7853, <https://doi.org/10.1016/j.matpr.2018.06.475>

November 01st, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a paper entitled “Structural Characterization and Dielectric studies of Gd doped ZrO₂ nano crystals Synthesized by Solution combustion method” in Elsevier: **Materials Today: Proceedings** Volume 5, Issue 10, Part 1, 2018, Pages 20882-20889, ISSN: 21195-21204, <https://doi.org/10.1016/j.matpr.2018.06.519>

November 28th, 2018: The Department conducted Pre Ph.D Comprehensive Viva-Voce of Research scholar Mrs. Rani A Sutar on the topic Polypyrrole and Ternary Oxides Nano Composites: Synthesis Characterization and Transport Studies under the guidance of Dr. Murugendrappa M.V at Radhakrishna Hall, PG Block, I st floor. Dr. D.N Avadhani of RVCE and Dr. Basavaraj Angadi of Dept. of Physics, Bangalore University were the external examiners.



December 06th-07th, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics participated in the international conference on 10th BENGALURU INDIA NANO 2018 held at The Lalit Ashok, Bengaluru organized by VGST, Govt. of Karnataka.

November 01st, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a paper entitled “Transport and complex modulus study of La_{0.7}Ca_{0.3}MnO₃ perovskite manganite nano-compound with polypyrrole as host” in **Springer: Polymer Bulletin**, DOI: <https://doi.org/10.1007/s00289-018-2653-y> Print ISSN: 0170-0839 Electronic ISSN: 1436-2449 with impact factor **1.589** and **SJR Q2 Journal**.

December 06th-07th, 2018: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics participated in the international conference on 10th BENGALURU INDIA NANO 2018 held at The Lalit Ashok, Bengaluru organized by VGST, Govt. of Karnataka.



January 02nd, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics had organised One Day Workshop on “Materials Characterization” in association with Tektronix. Dr. M. V. Murugendrappa Head, Department of Physics, BMSCE was the Convenor & Dr. Latha Kumari and Dr. Ramya Hariharan Assistant Professor were the coordinators for the event and about 100 Faculties & Research scholars from various colleges were participated.



January 30th, 2019: The Department had organized a Guest lecture on the Topic: “Opportunities and challenges in higher education” by Dr. A L Roy, Department of Physics and Materials Science, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong between 11.00 to 12.00 Noon at MESH, II Floor, Mechanical Block. Dr. Murugendrappa M V, Associate Professor and Head organized the event. The lecture was attended by about 100 students and faculty members of various departments.



January 30th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics invited as a Guest for organizing a lecture on the Topic: **“From Artificial Brain to real time sensing devices”** by Dr. A L Roy, Department of Physics and Materials Science, City University of Hong Kong, Tat Chee Avenue, Kowloon, Hong Kong between 2.00 to 3.00 PM at BMS College for Women, Bengaluru.



February 14-16, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was deputed as a resource person to conduct the “Three days Technical Seminar/Sessions on Materials, Material Characterization and Processing” in the mentee institute, MJP Rohilkhand University, Bareilly, UP.



February 15, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics delivered a special talk on “Conducting polymers synthesis and characterization” as a resource person in “Three days Technical Seminar/Sessions on Materials, Material

Characterization and Processing” in the mentee institute, MJP Rohilkhand University, Bareilly,



UP.

February 16, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics delivered a special talk on “Conducting polymers for sensors applications” as a resource person in “Three days Technical Seminar/Sessions on Materials, Material Characterization and Processing” in the mentee institute, MJP Rohilkhand University, Bareilly, UP.



February 16, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics, BMSCE and Dr. M S Dharmaprakash, Professor, Department of Chemistry, BMSCE interacted with HOD-Physics and HOD-Chemistry with other faculty members of MJR Rohilkhand University, Bareilly for possible collaboration of research.



February 20th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of physics was invited as an external member for Board of Studies meeting at Dayanand Sagar College of Engineering, Bengaluru.



March 10th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was invited to motivate and interact with Ph.D. students of Department of Physics, Gulbarga University, Gulbarga as an alumni.



March 11th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was invited to deliver a special talk on “Conducting polymers for Sensor application” in S.S. Margol College of Arts, Science and Commerce, Shahabad.



March 11th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was invited as a chief guest for the NSS-2019 annual day program on the topic “Student role in Science and Scientific progress” at S.S. Margol College of Arts, Science and Commerce, Shahabad.



March 19th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics conducted a Comprehensive Viva voce Examination of research scholar Mrs. Meti

Bharathi (1DA17PGA05) of Department of Physics as an examiner in the Department of Physics, Dr. Ambedkar Institute of Technology, Bengaluru by VTU.



March 30th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a Scopus indexed research paper entitled “Dielectric Relaxation, Complex Impedance Analysis and Magnetic Properties of Nickel Substituted Calcium Nano Ferrites for High Frequency Applications” in **Journal of Computational and Theoretical Nanoscience, Vol. 15, Number 11/12, Pages 3608–3615**, <http://doi:10.1166/jctn.2018.7673>.

April 13th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a research paper entitled “Synthesis, characterization and weight percent effect on humidity sensing properties of Polypyrrole/AlCeO₃ (PPy/ACO) nanocomposites” in **Journal of Fullerenes, Nanotubes and Carbon Nanostructures**, ISSN: 1536-383X (Print) 1536-4046 (Online) <https://doi.org/10.1080/1536383X.2019.1593966>

May 1st, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a research paper entitled “Synthesis, characterization and weight percent effect on humidity sensing properties of Polypyrrole/AlCeO₃ (PPy/ACO) nanocomposites” in **Journal of Fullerenes, Nanotubes and Carbon Nanostructures, Volume 27, 2019 - Issue 5** Pages 423 - 433 ISSN: 1536-383X (Print) 1536-4046 (Online) in **Taylor & Francis** with Impact Factor: **1.011** <https://doi.org/10.1080/1536383X.2019.1593966>

May 05th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a research paper entitled “**Structural and Dielectric Investigations of Cerium Stabilized Zirconia (Zr_{1-x}Ce_xO₂(x=0-0.05)) Nanocrystals Blended by Wet Chemical Method**” in UGC Approved Journal, **Journal of Nanoscience and Technology, Volume**

5, Issue 2, 2019 Pages 649 - 654 by JACS Directory of United States,
<https://doi.org/10.30799/jnst.220.19050201>

May 07th, 2019: Dr. Murugendrappa M V, Associate Professor and Head, Department of Physics was published a research paper entitled “Effect of barium lanthanum manganite nano particle on the electric transport properties of polypyrrole at room temperature” in Springer published Journal of Materials Science: Materials in Electronics, with Impact Factor: 2.324 and Q2 Journal, <https://doi.org/10.1007/s10854-019-01421-x>

1) Dr. T.S Pranesha

Professor, Dept. of Physics

November 27th, 2018: Dr. T.S Pranesha, Professor, Department of Physics was invited as an expert member for BOE meeting in the Controller of Examinations to scrutinize the Physics question papers for the year 2018-19 at SIT, Tumkur.

February 27th, 2019: Dr. T.S Pranesha, Professor Dept. of Physics, taken charge as Controller of Examinations of BMSCE.



3) Prof. T.Reuka

Associate Professor, Dept. of Physics

October 27th- 28th, 2018: Prof. T. Renuka, Associate Professor, Department of Physics attended a competency development programme conducted at Pegasus Institute, Doddaballapur.

4) Prof. K.Ravishankar

Associate Professor, Dept. of Physics

February 26th to 28th, 2019: Prof. K. Ravishankar, Associate Professor, Department of Physics Presented a research paper entitled “Spectral investigations (FT-IR. FT-Raman, UV-Visible, NBO, NLO, Molecular geometry, Mulliken charges, HOMO-LUMO MEP Calculations of 1 – [(2R, 4S, 5S)-4-azido-5-(hydroxyl methyl)oxolan-2-yl]-5-methylpyrimidine-2, 4-dione[1] by DFT method” in the “International Symposium on Modelling of Crystal Growth Processes and Devices”, held at SSN College of Engineering, Old Mahabalipuram Road, Kalavakkam, Tamil Nadu 603110.

February 26th to 28th, 2019: Prof. K. Ravishankar, Associate Professor, Department of Physics Presented a poster entitled “X-Ray and NMR Spectral Investigation, DFT Calculations, Molecular Dynamics, Physicochemical Descriptors, ADME Parameters, Pharmacokinetic Bioactivity Report On 1-[(2R, 4S, 5S)-4-Azido-5-(Hydroxyl Methyl) Oxolan-2-Yl]-5-Methylpyrimidine-2, 4-Dione [1]” in the “International Symposium on Modelling of Crystal Growth Processes and Devices”, held at SSN College of Engineering, Old Mahabalipuram Road, Kalavakkam, Tamil Nadu 603110. **This poster presentation received best poster award in the symposium.**

March 06th, 2019: Prof. K Ravishankar, Associate Professor, Department of Physics attended UPSC WORKSHOP 2019 Inaugural Program and Talk at BMSCE.



Prof. K. Ravishankar with Ms. N. Lakshmi IFS (UPSC AIR 50)

Ms. N. Lakshmi IFS to Prof. K. Ravishankar – **The best part about the function today was meeting you sir. Regards & Respects to you. Please guide many other students.**

April 17th, 2019: Prof. K. Ravishankar, Associate Professor, Department of Physics was mentioned in the Paper report of Vijayavani by I.F.S & I.A.S Rank Holder Lakshmi N.



2018ರ ಕೇಂದ್ರ ಲೋಕಸೇವಾ ಅಯೋಗದ (ಯುಪಿಎಸ್‌ಸಿ) ಫಲಿತಾಂಶ ಇತ್ತೀಚೆಗೆ ಪ್ರಕಟವಾಗಿದೆ. ರಾಜ್ಯದ ಹಲವಾರು ಯುವಪ್ರತಿಭೆಗಳು ಈ ಅತ್ಯುನ್ನತ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಯಶಸ್ಸು ಗಳಿಸಿದ್ದಾರೆ. ಆ ಪೈಕಿ ಐವರು ಪ್ರತಿಭಾತಾಳಿಗಳೆಂದಿಗೆ ವಿಜಯವಾಣಿ ಬೆಂಗಳೂರು ಕಚೇರಿಯಲ್ಲಿ ನೋವುಮಾರ ಸಂವಾದದ ಏರ್ಪಡಿಸಲಾಗಿದೆ. ರಾಜ್ಯದ ನಾನಾ ಭಾಗಗಳ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷಾರ್ಥಿಗಳು ಅಗಮಿಸಿದ್ದರು. ಪರೀಕ್ಷಾ ಪ್ರದರ್ಶಿ, ಸಿದ್ಧತೆ, ಓದುವ ವಿಧಾನ ಮುಂತಾದವುಗಳ ಕುರಿತು ಸಾಧಕರ ಜತೆ ಚರ್ಚಿಸಿ ತಮ್ಮ ಅನುಮಾನಗಳನ್ನು ಪರಿಹರಿಸಿಕೊಂಡರು.

ಉತ್ಸಾಹ, ಬದ್ಧತೆಗಳೇ ಯಶಸ್ಸಿನ ಕೀಲಿಕ್ಕೆ

‘ಅಧ್ಯಯನದ ದಿನಗಳಲ್ಲಿ ಪ್ರತಿದಿನವೂ ಒಂದೇ ರೀತಿಯ ಮನಸ್ಸಿಗೆ ಇರಬೇಡಿ. ಆಗಾಗ ಬೇಸರವಾಗುವುದು ಸಹಜ. ಆದರೆ, ಅದನ್ನು ತೀವ್ರಗೊಳ್ಳಲು ಬಿಡಬಾರದು. ಹಾಗೆ ಬೇಸರವಾಗದಾಗ ಸಿಎಸ್ ಸರ್ವಿಸ್ ಮಾಡಿದರೆ ಸ್ಪರ್ಧಾರಾಯರಿಗೆ ತೆಗೆಗಳನ್ನು ಯೋಚಿಸುವಾಗಲೇ ನೋಡಬೇಕು. ಅಂದರೆ ಎಂತಹ ಸೈಬಿಂಗು ಸಿದ್ಧತೆ ಎಂದರೆ ಅಭ್ಯಾಸವು. ನೋಂದಿಗೆ ಎಂದರೆ ರೋಗ ಬೇಸರದ ಮುನ್ನವಾಗುತ್ತದೆ. ಉತ್ಸಾಹ ಫಲಿತಾಯುತ್ತದೆ. ಯಾವಾಗಲೂ ಟೋನ್ ಮುಂಚೆ ಮಾಡಿ...’



ಯುಪಿಎಸ್‌ಸಿ ಸಾಧಕರ ಸ್ವಪ್ನ ಅಭಿಮತ

ಪರಿಶ್ರಮವಟ್ಟರ ಪ್ರತಿಫಲ ಗ್ಯಾರಂಟಿ
1 ಎಸ್. ಅಶ್ವಿನ್ 418ರ ರ್ಯಾಂಕ್ ಬಿಂಪನ್ ಇಂಜಿನಿಯರಿಂಗ್ ಕಾಲೇಜಿನಲ್ಲಿ ಮೂರನೇ ವರ್ಷದಲ್ಲಿ ಓದುತ್ತಿದ್ದಾಗ ಅಧ್ಯಯನ ಕಾರ್ಯಕ್ರಮ ಎರ್ಪಡಿಸಿ, ಅದರಲ್ಲಿ ಯುಪಿಎಸ್‌ಸಿಗೆ ಬಗ್ಗೆ ಮಾಹಿತಿ ದೊರೆಯಿತು. ಆಗಲೇ ನಾನು ಯುಪಿಎಸ್‌ಸಿಗೆ ಪರೀಕ್ಷೆ ತೆಗೆದುಕೊಳ್ಳಬೇಕೆಂದು ನಿರ್ಧರಿಸಿದೆ. ಸಿದ್ಧತೆ ಆರಂಭಿಸಿದೆ. ಆದರೆ, ಇಂಜಿನಿಯರಿಂಗ್ ಓದಿದ್ದರಿಂದ ಈ ಕ್ಷೇತ್ರದಲ್ಲಿ ಕೂಡ ನೆಲೆ ಸ್ಥಿರವೆಂದು ನಿರೀಕ್ಷಿಸಿದೆ. ಅಧಿಕ ಸ್ವಾಭಾವಿಕ ಸಾಧನ ಉದ್ಯೋಗ ಅಭ್ಯಾಸವಾಗಿತ್ತು. ಹೀಗಾಗಿ ಓದುವ ವರ್ಷ ಸಾಫ್ಟ್‌ವೇರ್ ಕಂಪನಿಯೊಂದರಲ್ಲಿ ಕೆಲಸ ಮಾಡಿದೆ. ಬಳಿಕ ಯುಪಿಎಸ್‌ಸಿಗೆ ಪ್ರೀಮಿಯಂ ಎಂಬುದು. ಪ್ರಥಮ ಪ್ರಯತ್ನದಲ್ಲಿ ಯಶಸ್ಸು ದೊರೆಯಲಿಲ್ಲ. ಇದರಿಂದ ಬೇರೇನಿಗಿಂತಿದ್ದ ನಾನು ಕಂಠಿ ಕಾಲೇಜಿಗೆ ಹೋದಾಗ ಪ್ರಾಧ್ಯಾಪಕರ ವಿವರಣೆ ಅವರು ‘ಗೊಬ್ಬು ತಲೆಗಾಗಿ ಬಂದರೂ ಪರವಾಗಿಲ್ಲ. ಆದರೆ, ಗಿದ್ದಾಗ ಅದು ನಿನ್ನ ಬೇಸರದ ದೂಡ್ಡಿ ವಿಚಾರವಾಗಬೇಕು’ ಎಂದು ಪ್ರೋತ್ಸಾಹಿಸಿದರು. ಈ ಮಾತು ನನಗೆ ಅತ್ಯಶ್ಚರ್ಯ ತುಂಬಿತು. ತರಬೇತಿಗಿಂತಲೂ ಹೋಗಿಲ್ಲ. ನಾನೇ ಸ್ವಂತ ಶ್ರಮವಟ್ಟು ಓದಿದೆ. 2017ರಲ್ಲಿ ಎಂದೆನೇ ಪ್ರಯತ್ನದಲ್ಲಿಯೂ ಯಶಸ್ಸು ನಿಗಿಲ್ಲ. ಇದರಿಂದ ಅಧ್ಯಯನ ನೆಲೆ ಬಳಿಕ ನಾನು ನೆಲೆಯಲ್ಲಿ ಕೂಡ ಯಶಸ್ಸು ನಿಗಿಲ್ಲ. ಯುಪಿಎಸ್‌ಸಿಗೆ ಪರೀಕ್ಷೆ ಓದುವುದನ್ನು ಒಂದು ತಪಸ್ಸಿನಂತೆ ಅರಿವಿನಂತೆ.

‘ಕಾಂಕ್ ನೋಟಿಯಲ್ ಮಾಡಿಯೂ ಜ್ಞಾನಿ ಬಳಸಬೇಡಿ. ನಮನೆಯಲ್ಲಿ ಬಹಳಷ್ಟು ಐಸ ಉದ್ಯೋಗದಲ್ಲಿ ಇರ್ಪಾಕರ. ಮದುವೆ ಆಗ್ತ ಇರ್ಪಾಕರ, ಮನೆ ಕಟ್ಟಿತ್ತ ಇರ್ಪಾಕರ. ಅವುಗಳನ್ನೆಲ್ಲ ಫೋಬೋಸ್‌ನಲ್ಲಿ ನೋಡಿ ನಾನು ನನ್ನ ವಾಸ್ತವೀಕರಿಸಿ ಪುಸ್ತಕ ಓದ್ತ ಇದ್ದೆನಲ್ಲ ಎನ್ನುವ ಭಾವನೆ ಬರುವುದು. ಹೀಗಾಗಿ, ಸಾಧ್ಯವಾದಷ್ಟು ನೋಟಿಯಲ್ ಮಾಡಿಯೂ ಮಾಡಿಯೂ ದೂರವಿರುವುದೇ ಬೆನ್ನಿ ಪೋಸಿಯಂ ಅಡಿಕ್ಟ್, ಡೇಂಜರ್ಸ್ ಗೇಮ್ಸ್ ಅದರೇನಿಡಿ. ಸ್ಪಾಟ್ ಆಗಿ ಯೋಜನೆ. ಮಡಿಮೆಗೆ ಎವಾದರೂ ಪುಸ್ತಕ ಕಲುವುದಾದರೂ ಮಾಡಿ. ಬೆಂಕಿಧರ ಯಾವುದಾದರೂ ಕೂಡಲೆಗೆ ಸಂಸ್ಥೆಗೆ ಕಂಪ್ಯೂಟರ್ ಕೆಲಸವು ಮಾಡಿಯೂ ಸಂಸ್ಥೆಗೆ ಸ್ಪರ್ಧೆಯೂ ಮಡಿಮೆ ಇದ್ದರೆ ಅತ್ಯಂತ ಪ್ರಶಸ್ತಿ ಪುಸ್ತಕ. ಅದು ಪರೀಕ್ಷೆ ಎಂದಿರುವ ಹೆಜ್ಜೆಗೆ ಪರೀಕ್ಷೆಯಲ್ಲಿ ರ್ಯಾಂಕ್ ಗಳಿಸಿದ ಕರ್ನಾಟಕದ ಐವರು ಸಾಧಕರ ವಿವರವಾಗಿದೆ. ಮಿಲಿಯನ್ವಾಣಿ ನೋವುಮಾರ ಅಯೋಜಿಸಿದ ‘ಯುಪಿಎಸ್‌ಸಿ ಸಾಧಕರ ಸಂವಾದ’ ಕಾರ್ಯಕ್ರಮದಲ್ಲಿ ಈ ಸಾಧಕರು ಉತ್ಸಾಹದ ಮಾತುಗಳನ್ನು ಪರಿಚಯಿಸಿ ಬರಬೇಕು ಉತ್ಸಾಹದ ಮಾತುಗಳನ್ನು ಹುರಿಯುವುದು.

ದಕ್ಷ ಅಧಿಕಾರಿಯಾಗಿ ಸೇವೆ ಸಲ್ಲಿಸುವುದೇ ಗುರಿ
1 ರೋಷನ್ ಬಗದೀಶ್ 224ರ ರ್ಯಾಂಕ್ 2015ರಲ್ಲಿ ಕಾನೂನು ಪದವಿ ಪಡೆದ ಬಳಿಕ ಯುಪಿಎಸ್‌ಸಿಗೆ ಪರಿಶ್ರಮ ಓದಿ ಅಧಿಕಾರಿಯ ನಿರೀಕ್ಷಿಸಿದ. ಮನೆಯಲ್ಲಿ ಕೂಡ ಇದಕ್ಕೆ ಪ್ರೋತ್ಸಾಹ ನೀಡಲಾಯಿತು. ಅಷ್ಟೆ 32 ವರ್ಷದ ಹಿಂದೆ ನೆಲ್ ಇನ್ಸ್ ಪೆಕ್ಟರ್ ಆಗಿ ನೆಲೆ ಆರಂಭಿಸಿದರು. ವಿಧ್ಯಾರ್ಥಿಯಾಗಿದ್ದಾಗ ನಾನು ಏಪಿಎಸ್ ಅಧಿಕಾರಿಯಾಗಿ ವೃತ್ತಿ ಜೀವನ ಆರಂಭಿಸಬೇಕೆಂದು ಕನಸು ಕಂಡಿದ್ದೆ. ತಂದೆ ನಿರಂತರವಾಗಿ ಅಧಿಕಾರಿಯಾಗಿದ್ದರಿಂದ ಅಧಿಕಾರಿಯಾಗಿ ಬಗ್ಗೆ ಮಾಹಿತಿ ನಿರಂತರವಾಗಿ. ನಮ್ಮ ಮನೆ ಅದೇ ಮಿಷನ್ ಅಧಿಕಾರಿ ಅಭ್ಯಾಸಕ್ಕೆ ಹೋಗಿ ರವಿ ದಿ. ವೆಸ್ಟ್‌ಬೆಂಚರ್ ಅವರು ನಡೆದು ಬಂದ ಕಾರಿ ನಾನು ಕ್ಷೇತ್ರದ ನಡೆದು. ಅಷ್ಟೇ ಅಲ್ಲ, ಹೊಸ ಧರ್ಮಿಯನ್ನು ಮೂಡಿಸಿತು.

2018ರ ಯುಪಿಎಸ್‌ಸಿ ಪರೀಕ್ಷೆಯಲ್ಲಿ ಯಶಸ್ವಿಯಾಗಿರುವ ಅಶ್ವಿನ್ ಎಸ್. (45ನೇ ರ್ಯಾಂಕ್), ರೋಷನ್ ಬಗದೀಶ್ (224ನೇ ರ್ಯಾಂಕ್), ಡಾ. ನಾಗಾರ್ಜುನ ಪಿ. ಗಿಡ (418ನೇ ರ್ಯಾಂಕ್), ಸಂವಾದ್ ಎಸ್ (753ನೇ ರ್ಯಾಂಕ್), ಆರ್. ಮಂಜುನಾಥ್ (495ನೇ ರ್ಯಾಂಕ್) ಸಂವಾದದಲ್ಲಿ ಪಾಲ್ಗೊಂಡಿದ್ದರು.



2016ರಲ್ಲಿ ಪ್ರಥಮ ಬಾರಿಗೆ ಯುಪಿಎಸ್‌ಸಿಗೆ ಪರೀಕ್ಷೆ ಎಂದಿರಿಸಿದೆ. ಅದರ ಮೊದಲ ಪ್ರಯತ್ನ ವಿಫಲವಾಯಿತು. ಎಂದೆನೇ ಪ್ರಯತ್ನದಲ್ಲಿ ಸ್ವೀಕೃತ ನುಹಾನ್ ರಾವ್ ಸಹಾಯ ಮಾಡಿದರು. ಪ್ರೀಮಿಯಂನಲ್ಲಿ ಉತ್ತಮ ಅಂಶ ಪಡೆದ. ಮೂರನೇ ಸಲ ಅಷ್ಟೇ ಸಿದ್ಧತೆ ಮಾಡಿಕೊಂಡಿದ್ದೆ. ಓದುವ ಗುರಿ ಹಾಕಿಕೊಂಡು ಓದಲು ಆರಂಭಿಸಿದೆ. ಇನ್ಸ್‌ಪೆಕ್ಟರ್ ಸಂಸ್ಥೆ ಪ್ರತಿಭಾಸುವಾರ ನಡೆಸಿದ ಪರೀಕ್ಷಾ ಸಹಾಯಕವಾಯಿತು. ಪ್ರೀಮಿಯಂನಲ್ಲಿ ಕೇರ್‌ಡಿಯಾಗಿ, ಮನೆಯ ಬಳಿಕ ನಂದರ್ಶನ ಮುಗಿಸಿದೆ. ನಂದರ್ಶನ ನಿರೀಕ್ಷಿಸಿದ್ದಷ್ಟು ಉತ್ತಮವಾಗಲಿಲ್ಲ. ಹಾಗಾಗಿ, ದುಖಾಚಲೇ ಮಾಡಲು ಸ್ವೀಕೃತ ಜತೆ ಗೋವಾಕ್ಕೆ ತೆರಳಿಲ್ಲ! ಅಂತಿಮವಾಗಿ ಯುಪಿಎಸ್‌ಸಿಯಲ್ಲಿ ಯಶಸ್ಸು ಕಂಡೆ. ಮೊದಲ ಎಂದೆನೇ ಪ್ರಯತ್ನದಲ್ಲಿ ಯಶಸ್ಸು ಕಷ್ಟ ನಿರಂತರವಾಗಿ ಪರಿಶ್ರಮವಟ್ಟರ ಯಶಸ್ಸು ಪಾತಿ.

24ಕ್ಕೆ ಮದ್ಯೆ, 26ಕ್ಕೆ ಮಕ್ಕು ಬೇಕು ಅನ್ವೇಷಿಡಿ!
ಯುಪಿಎಸ್‌ಸಿಗೆ ಸೇವೆಗಾತಿಯಲ್ಲಿ ಕರ್ನಾಟಕ ಏರ್ಪಡಿಸಿದ ಇದೆ. ಈ ಸಲ ಕೇವಲ 24 ಮಂದಿ ತೇರ್ಗಡೆಯಾಗಿದ್ದಾರೆ. ರಾಜ್ಯಾದ್ಯಂತ ರಾಜ್ಯಾದ್ಯಂತ 100ಕ್ಕೂ ಅಧಿಕ ಮಂದಿ ಪಾಸಾಗಿದ್ದಾರೆ. ಹಾಗೂ 25 ಮಂದಿಯಲ್ಲಿ 5 ಸ್ಥಾನಗಳನ್ನು ಅಪರೇಟೆ ಮಾಡಿದ್ದಾರೆ. ಅದರಲ್ಲಿಯೂ ಕರ್ನಾಟಕದಲ್ಲಿ ಹೆಚ್ಚುಮಟ್ಟು ತೇರ್ಗಡೆಯಾಗುವ ಪ್ರತಿ ವರ್ಷವೂ ತುಂಬಾ ಕಮ್ಮಿ. ಇದಕ್ಕೆ ಹೆಚ್ಚಿನದಾಗಿ ಪಾಲ್ಗೊಂಡ ಕಾರಣ, 24 ವರ್ಷಕ್ಕೆ ಮಟ್ಟೆ 26 ವರ್ಷಕ್ಕೆ ಮಟ್ಟಿಗಾತೆ ಸಾಕು’ ಎನ್ನುತ್ತಾ ಹೆಚ್ಚು ಮಕ್ಕಳ ಪ್ರತಿಭೆಯನ್ನು ಟಿಪ್ಪಣಿಸುತ್ತಾರೆ. ಇಂಥ ಮನೋಭಾವ ತೋರಬೇಕು. ದಕ್ಷ ಅಧಿಕಾರಿಯಾಗಿ ಹೆಚ್ಚು ಮಕ್ಕಳು ಹೋರಾಡಬೇಕು ಅವಶ್ಯಕತೆ ತುಂಬಾ ಇದೆ.

ಅಡ್ಡದಾರಿಯ ಮಾರ್ತೇ ಇಲ್ಲ, ಮೆರಿಟಕ್ಕೆ ಎಲ್ಲ
ಯುಪಿಎಸ್‌ಸಿಗೆ ಸೇವೆಗಾತಿ 2ನೇ ಬಾರಿ 100ರಷ್ಟು ಪಾಠಕರ್ಪಣದಷ್ಟು ಇದ್ದರೆ ಅದೇನಾದರೂ ಒಂದೆಂಟಷ್ಟು ಇಲ್ಲ. ಇಲ್ಲಿ ನಂದರ್ಶನ ಹೇಗಿರುತ್ತದೆ ಎಂದರೆ, ನಂದರ್ಶನಕ್ಕೆಂದು ಐದು ಬೋರ್ಡ್ ಇರುತ್ತವೆ. ಬೆಳಿಗ್ಗೆ 30, ಸಂಜೆ 30 ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ನಂದರ್ಶನ ನಡೆಯುತ್ತದೆ. ನಂದರ್ಶನದ ಪ್ರಶ್ನೆ ಹೋರಾಡಿ ಅಭ್ಯರ್ಥಿಯು ಕೋಡ್ ಕೊಟ್ಟು ಪೇಜಿಯಂಗ್ ರೂಪದಲ್ಲಿ ಸುರಿಯುತ್ತಾರೆ. ಅದು ಐದು, ಎರಡು ಎನ್ನುವುದು ಸುರಿಯಿಗಿ ತಿಳಿದಿರುವುದಿಲ್ಲ. ಆ ಕೋಡ್ ಅಧಾರದ ಮೇಲೆ ಅಂತಿಮದ ಸಮಸ್ಯೆಯು ಯಾವ ಬೋರ್ಡ್‌ಗೆ ಎಂದು ಕರೆದುಕೊಂಡು ಹೋಗುತ್ತಾರೆ. ಅಲ್ಲಿ ನಂದರ್ಶನ ಮಾಡುವುದರಿಗೂ ನಮ್ಮ ಪ್ರೋಫೆಸರ್, ನಾವು ಪಡೆದಿರುವ ಅಂಶ ಅಂದಾಜಿದರೂ ಗೊತ್ತಿರುವುದಿಲ್ಲ. ಯಾವುದೇ ಬೋರ್ಡ್‌ನಲ್ಲಿ ಇದನ್ನು ಇರುವ ನಂದರ್ಶನ, ಸಾಳಿ ಇರುವುದಿಲ್ಲ. ಯಾವ ಅಭ್ಯರ್ಥಿಗಳಿಗೆ ಎಲ್ಲಿ ಯಾವ ಇದ್ದಾರೆ ಎನ್ನುವುದು ನಂದರ್ಶನದ ಕೋಡಿಯು ಓಳಿಗೆ ಹೋಗುವುದರಿಗೂ ತಿಳಿದಿರುವುದಿಲ್ಲ. ಎಷ್ಟು ಪಾಠಕರ್ಪಣಕೆ ಇರುತ್ತದೆ. ಇಲ್ಲಿ ಗೋವಾಕ್ಕೆ ಬರುವುದು ಕೇವಲ ಪರೀಕ್ಷೆಗೆ ಅದೇನಾತ ಅಡ್ಡದಾರಿಯಂತಿರ ಯುಪಿಎಸ್‌ಸಿಗೆ ಸೇವೆಗಾತಿಯಲ್ಲಿ ಇದ್ದೇ ಇಲ್ಲ.

ಇಂಜಿನಿಯರ್, ಡಾಕ್ಟರ್ ಆತಿಯೂ ಬಗಗಿಡೆ...
ಸೈದ್ ಪರಿಶ್ರಮಿ ಹೇಗಿ ಎಂದರೆ ಹೆಚ್ಚಿನವರು ಇಂಜಿನಿಯರ್, ಡಾಕ್ಟರ್ ಇವೆರಬರು ಹುದ್ದೆ ಟಿಪ್ಪಣಿ ಮೆತ್ತಿಯೂ ಯೋಜನೆ ಮಾಡುತ್ತಿಲ್ಲ. ಇದೇನು ಕೆಟ್ಟದು ಅಂಪಿಲ್ಲ. ಆದರೆ ಇದೇ ಹೋರಾಡಿಯೂ ಬೇರೆ ಬೇರೆ ಕ್ಷೇತ್ರಗಳಿಗೆ ಎಂಬುದನ್ನು ಯೋಜನೆ ಮಾಡಬೇಕು. ಸಿಡಿಲ್ ಸರಿಸಾಡಿಯಂಥ ಸ್ಪರ್ಧಾತ್ಮಕ ಪರೀಕ್ಷೆ ತೆಗೆದುಕೊಂಡರೆ, ಇನ್ನೂ ಹೆಚ್ಚಿನವನ್ನು ಸಾಧಿಸುವ ಸಾಧ್ಯತೆ ಇದೆ. ಜತೆಗೆ ಹೆಚ್ಚಿಯೂ ಆಗುತ್ತದೆ.

ಲಕ್ಷ, ಲಕ್ಷ ಖರ್ಚು ಮಾಡಲೇಬೇಕಿಲ್ಲ.
ಯುಪಿಎಸ್‌ಸಿಗೆ ಸಿದ್ಧತೆಗೆ ತರಬೇತಿ ಕಟ್ಟುವುದಿಲ್ಲ. ಆದರೆ ಅದು ಮೊದಲ ಸಿದ್ಧತೆಯ ಸಹಾಯವಾಗುತ್ತದೆ. ಇದನ್ನು ಹೊಸವರು ಮಾಡಿದರೆ ಮೋರ್ಪಣದ ಅಗತ್ಯ ಯಾವುದೇನಿಲ್ಲ. ಸಿದ್ಧತೆಗೆ ಒಂದು ಮುಟ್ಟು ಸಹಾಯದ ಯೋಜನೆಕೊಂಡು ಮುಟ್ಟು. ಅದಕ್ಕೆ ಬೇಕಾದ ಸಾಮಗ್ರಿ ಸಂಬಂಧಿಸಿದಂತೆ ಸಾಕಷ್ಟು ಅವಕಾಶಗಳಿವು. ಅಭ್ಯರ್ಥಿ ಕಡಿ ಗಮನ ಇರಬೇಕು. ಲಕ್ಷಗಟ್ಟು ಹಣ ಸುರಿಯುವ ಅಗತ್ಯವಿಲ್ಲ. ಹದಿನೆ ಐವತ್ತೆಂದರೆ ಹೇಗೆ ಎಷ್ಟು ಮೋರಿಯಲ್‌ಗಳನ್ನು ಹರಿಸಿಕೊಳ್ಳಬೇಕೆಂದು ಎಂಬ ಬಗ್ಗೆ ಮೊದಲೇ ಅರಿವಿಡಬೇಕು.

ಕೋಟಿಂಗ್ ಪಡೆಯದೆಯೂ ಯಶಸ್ಸು ಸಾಧ್ಯ
1 ನಾಗಾರ್ಜುನ ಪಿ. ಗಿಡ 418ರ ರ್ಯಾಂಕ್ 2015ರಲ್ಲಿ ಎಂಜಿನಿಯರಿಂಗ್ ತಿರೂ ಪ್ರೋಗ್ರೆಸಿಡೆ. ಬಳಿಕ ಯುಪಿಎಸ್‌ಸಿಗೆ ಮಾರಬೇಕೆಂದು ನಿರ್ದರಿಸಿದ. ಆದರೆ, ಯಾವುದೇ ಕೋಟಿಂಗ್ ಪಡೆದುಕೊಳ್ಳಲು ಹೋಗಿಲ್ಲ. ಸ್ವಂತ ಪರಿಶ್ರಮದಿಂದ ಸಿದ್ಧತೆ ಮಾಡಿಕೊಂಡು ಪರೀಕ್ಷೆ ಎಂದಿರಿಸಿದೆ. ಮೊದಲ ಪ್ರಯತ್ನದಲ್ಲಿ 6 ಅಂಕದಲ್ಲಿ ಅವಕಾಶ ಕೈತಪ್ಪಿತು. ಆದರೆ, ಈ ಬಾರಿ ಅಂದುಕೊಂಡಂತೆ ಯಶಸ್ಸು ಸಾಧಿಸಿದೆ. ಇನ್ಸ್‌ಪೆಕ್ಟರ್ ಸಂಸ್ಥೆ ನಡೆಸುವ ಪರೀಕ್ಷೆಗಳು ಯುಪಿಎಸ್‌ಸಿಗೆ ಸಂಸ್ಥೆ ಮಾಡಲು ಸಹಾಯವಾಗುತ್ತವೆ. ಲಕ್ಷಾಂತರ ದೂ. ಐಬಿಇ ಮಾಡಿ ಯುಪಿಎಸ್‌ಸಿಗೆ ಕೋಟಿಂಗ್ ಪಡೆದುಕೊಳ್ಳಬೇಕು ಎಂದೆನೇ ಇಲ್ಲ. ಪಾಲ್ಗೊಟ್ಟೆ ಮೇಲೆ ಉದ್ಯೋಗ ಮಾಡುತ್ತಾ ಪರೀಕ್ಷೆಗೆ ಸಿದ್ಧತೆ ಮಾಡಿಕೊಂಡಲ್ಲಿ ನಮ್ಮ ಅತೀವಶ್ಯಕ ಹೆಚ್ಚುತ್ತದೆ. ಅದೇ ರೀತಿ, ಪಾಲವೆ ಮೇಲೆ ಅವಲಂಬನೆಯಾಗುವುದು ತಪ್ಪುತ್ತದೆ. ಉದ್ಯೋಗ ಮಾಡುತ್ತಾ ಓದಲು ಸಾಧ್ಯವಾಗಿದ್ದಲ್ಲಿ ಬೇರೆ ತೆಗೆದುಕೊಳ್ಳುವುದು ಏಕೆ. 2016ರಲ್ಲಿ ದೇಶದಾದ್ಯಂತ ಮೆಟ್ಟಿಲಿನಲ್ಲಿ ಪರೀಕ್ಷೆ ಪಾಸು ಮಾಡಿದರು. ಇದೇ ನನಗೆ ಪ್ರೇರಣೆಯಾಯಿತು. ವೃತ್ತಿಯಲ್ಲಿ ವೈದ್ಯನಾಗಿದುವ ನಾನು ಕೂಡ ಯುಪಿಎಸ್‌ಸಿಯಲ್ಲಿ ಯಶಸ್ಸು ಸಾಧಿಸಬೇಕೆಂದು ಅತ್ಯಂತ ಪ್ರಶಸ್ತಿ ಮಾಡಿದರು ಅತ್ಯಂತ ಪ್ರಶಸ್ತಿ ಮಾಡಿದರು. ಪರಿಶ್ರಮ ಹಾಗೂ ಲಕ್ಷಗಟ್ಟು ಪ್ರಯತ್ನವನ್ನು ಯುಪಿಎಸ್‌ಸಿಯಲ್ಲಿ ಯಶಸ್ಸು ಗಳಿಸಬೇಕು.



ಪ್ರಶ್ನೆಗಳಿಗೆ ಸಾಧಕರ ಉತ್ತರ

ಪುಟ TV ಕೆ...

5) Dr. B.L Suresha

Asst. Professor, Dept. of Physics

July 16th to 27th, 2018: Dr. B L Suresha, Assistant Professor, Department of physics, participated in Two week faculty development program on “Advanced Manufacturing” organized by Department of Mechanical Engineering Sponsored by TEQIP III - Center of Excellence in Advanced Materials Research, BMSCE.

December 03rd-08th, 2018 :Dr. B. L Suresha, Asst. Professor and Sri. Sumantha H.S, Smt. Rani A Sutar, and Swetha R, Research Scholar Department of Physics and Sandya R, Project Assistant under DST-SERB project attended Six-Day MHRD initiated GIAN Programme on “Lithium Ion batteries: Fundamentals, characterization techniques and applications” organised by Dept. of Chemistry in BMSCE Campus.

December 03rd-08th, 2018: Dr. B. L Suresha, Asst. Professor and Sri. Sumantha H.S, Smt. Rani A Sutar, and Swetha R, Research Scholar Department of Physics and Sandya R, Project Assistant under DST-SERB project attended Six-Day MHRD initiated GIAN Programme on “Lithium Ion batteries: Fundamentals, characterization techniques and applications” organised by Dept. of Chemistry in BMSCE Campus.

February 21st-22nd, 2019: Dr. B.L Suresha, Assistant Professor of Department of Physics presented a research paper entitled "**Experimental and theoretical characterization of Ethyl 1-benzyl-2-(thiophen-3-yl)1H-benzo[d]imidazole-5-carboxylate**" in the “National Conference on Physics and Chemistry of Functional Materials (PCFM 2019): held at PCFM-2019, School of Technology, GITAM Hyderabad.

March 18th to 20th, 2019: Dr. B.L Suresha, Asst. Prof Dept. of Physics, Dr. KaliPrasad C.S, Asst. Prof., Dept. of Physics & Sumantha H .S Research scholar Dept. of Physics participated and presented a research paper in the Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC) Sponsored by University with Potential for Excellence (UPE),

UGC at the Center for Materials Science & Technology (CMST), Vijnana Bhavan,
Manasagangothri, Mysuru, India – 570006



May 20th-24th, 2019: Dr. B.L Suresha, Assistant Professor, Department of Physics was deputed to attend Professional development training programme (POT) held at IIM, Raipur.

6) Dr. K.E Ganesh

Asst. Professor, Dept. of Physics

July 23rd, 2018: Dr. K.E Ganesh, Asst Professor, Department of physics started the experimental work of the TEQIP-3 SPONSORED PROJECT titled “Study of PM1 variations in and around Bengaluru city”.



20th August, 2018: Dr. K.E Ganesh, Assistant Professor, Department of Physics published a paper titled, “**Enhancement of Learning Outcomes through implementation of best practices in Teaching Learning Process: A case study**” in Journal of Engineering Education Transformations Journal Volume 32 , No. 1, July 2018, ISSN 2349-2473, eISSN 2394-1707

November 26th-28th, 2018: Dr. Ganesh K.E, Assistant Professor, Department of Physics was presented two papers entitled “Preliminary Investigation of Pm1 Variation at Bengaluru, Karnataka State”, “Comparison Of Aerosol Angstrom Exponent With Aot At 555 Nm For A South Indian City Bengaluru, Karnataka Using Satellite Data” in IASTA-2018, Conference of Indian Aerosol Science and Technology Association On Aerosol Impacts: Human Health to Climate Change at Centre for Atmospheric Sciences, Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016, India.

December 13th, 2018: Dr. K.E Ganesh, Assistant Professor, Department of Physics Published a paper in RPD Radiation Protection Dosimetry (2018), pp. 1–9 entitled “A model to predict ^{238}U in aquifer rock based on ^{222}Rn and ^{226}Ra measurement in groundwater samples: a case study at south Bengaluru city, Karnataka, India”, <https://doi.org/10.1093/rpd/ncy257>

7) Dr. Latakumari

Asst. Professor, Dept. of Physics

July 24th to 28th, 2018: Dr. Lathakumari, Assistant Professor of department of Physics & R. Sandya Research Scholar attended a Five day Faculty development program on “Applied Physics” organized by department of Physics, BMSIT.

December 03rd-08th, 2018: Dr. Lathakumari, Asst. Professor and Sri. Sumantha H.S, Smt. Rani A Sutar, and Swetha R, Research Scholar Department of Physics and Sandya R, Project Assistant under DST-SERB project attended Six-Day MHRD initiated GIAN Programme on “Lithium Ion batteries: Fundamentals, characterization techniques and applications” organised by Dept. of Chemistry in BMSCE Campus.

8) Dr. Ramya Hariharan

Asst. Professor, Dept. of Physics

October 01st, 2018: Dr. Ramya Hariharan, Assistant Professor, Department of Physics published a paper titled, “Correlation between microstructure and electrical properties of A-site substituted YAlO₃ ceramics” in Journal of Materials Science & Engineering Volume 231, Page No. 66-73, September 2018

October 01st, 2018: Dr. Ramya Hariharan, Assistant Professor, Department of Physics published a paper titled, “Effect of B-site doping on electrical conductivity of YAlO₃ based electrolytes for solid oxide fuel cells” in Journal of Electroceramics Volume 231, Page No. 66-73, September 2018

December 03rd-08th, 2018: Dr. Ramya Hariharan, Asst. Professor and Sri. Sumantha H.S, Smt. Rani A Sutar, and Swetha R, Research Scholar Department of Physics and Sandya R, Project Assistant under DST-SERB project attended Six-Day MHRD initiated GIAN Programme on “Lithium Ion batteries: Fundamentals, characterization techniques and applications” organised by Dept. of Chemistry in BMSCE Campus.

March 18th to 22nd, 2019: Dr. Ramya Hariharan, Asst Professor, Department of Physics was attended a TEQIP Sponsored One Week FDP on “Igniting Entrepreneurial innovations in Technical Education” held at BMSCE, Bangalore.

9) Dr. Kaliprasad

Asst. Professor, Dept. of Physics

October 05th-06th, 2018: Dr. Kaliprasad C.S, Assistant Professor, Department of Physics presented a research paper entitled “Distribution of radionuclides and risk assessment in construction materials using in Mangalore district, India” in the “International conference on Radiation Biology”, ICRB 2018: held at NITTE University, Mangalore.

Assessment of radiological risk from construction materials in Mangalore of coastal Karnataka

Kaliprasad C.S¹, Kamalakhar V.D and Narayana V¹
 1 Dept. of Physics, BMS College of Engineering, Bangalore-560 019
 2 Dept. of Physics, Mangalore University, Mangalagangothri-574 199

Introduction
 Human beings are exposed to the natural radiation coming from cosmic rays and terrestrial sources. While absorbed dose rate in air from cosmic radiation varies with altitude from the mean sea level, the terrestrial background radiation are related to the types of rock and soils prevailing in a region. The contribution from these components varies with location and local geology. The principal sources of radioactivity in the environment are the natural radionuclides, which are of the ²³⁸U and ²³²Th series and of singly occurring radionuclides like ⁴⁰K. These radionuclides are found in all environmental matrices such as rocks and soil, in water and in building materials and houses. Construction materials are one of the major sources of indoor radon concentration in dwellings. Therefore, the radionuclides concentrations and their distributions and their contribution in the construction materials should be monitored. With this aim, the natural radionuclides activity concentration in construction materials was measured.

Methods
 Samples were collected from different construction locations of Mangalore. They were analyzed with standard procedures, using NaI(Tl) based gamma ray spectrometry. The samples were analyzed with an acquisition rate of 10000 counts per second. The samples were shielded with lead bricks of size 6" x 3" x 1.75", to reduce counts due to gamma ray radiations. The samples were analyzed with an acquisition rate of 10000 counts per second. The samples were analyzed with an acquisition rate of 10000 counts per second. The samples were analyzed with an acquisition rate of 10000 counts per second.

Results
 The activity concentration of ²²⁶Ra, ²³²Th and ⁴⁰K in samples of construction materials were measured and presented in table 1.

Discussion
 The activity concentration of ²²⁶Ra, ²³²Th and ⁴⁰K in samples of construction materials were measured and presented in table 1.

Sample Code	Average activity			
	²²⁶ Ra (Bq kg ⁻¹)	²³² Th (Bq kg ⁻¹)	⁴⁰ K (Bq kg ⁻¹)	
Bricks	B1	44.49±1.21	23.64±1.54	15.05±1.23
	B2	36.72±2.38	73.05±2.70	38.65±1.97
	C1	37.52±1.04	55.32±2.46	25.75±1.61
	C2	36.53±1.91	56.11±2.37	21.05±1.41
Concrete	C3	41.50±2.05	80.97±2.34	37.65±1.84
	C4	47.53±2.11	59.59±2.25	33.95±1.54
	C5	41.24±2.93	64.36±2.11	21.34±1.45
	G1	39.85±2.34	27.72±1.67	39.34±1.76
Granite	G2	32.95±2.70	23.63±1.69	22.99±1.66
	S1	32.69±2.25	73.36±1.53	32.22±1.49
	S2	42.61±2.09	21.02±1.70	16.94±1.29
Soil	S3	45.24±2.13	29.33±1.70	24.09±1.25

Table 1. Activity concentration of ²²⁶Ra, ²³²Th and ⁴⁰K in Mangalore district, coastal Karnataka.

Sample Code	Dose (mSv h ⁻¹)	Ra eq (Bq kg ⁻¹)	AUI (h)	Gamma Index
B1	21.9	45.6	0.4	0.17
B2	39.5	131.7	1.1	0.35
C1	42.5	95.3	0.8	0.23
C2	50.7	50.5	0.5	0.14
C3	61.8	137.9	1.2	0.37
C4	45.8	102.3	0.9	0.30
C5	35.4	78.5	0.7	0.27
G1	34.8	78.1	0.6	0.27
G2	31.5	70.6	0.6	0.25
S1	32.6	73.3	0.6	0.28
S2	28.1	25.5	0.5	0.19
S3	30.0	67.2	0.6	0.23

Table 1. Radiological hazard indices of soil samples.

November 27th, 2018: Dr. Kaliprasad C.S, Assistant Professor, Department of Physics Published a research paper entitled “A Review on Application of Nanoparticles in Biophysics” in the Research & Reviews: Journal of Physics: ISSN: 2278-2265 (Online), ISSN: 2347-9973 (Print) Volume 7, Issue 3. RRJoPHY (2018) 63-65 © STM Journals 2018.

February 06th, 2019: Dr. Kaliprasad C.S, Assistant Professor, Department of Physics published a research paper entitled “Seasonal variation of radionuclides concentration in sand samples collected from Southern coastal areas of Kerala, India,” in the “Radiation Protection and environment Journal”, Volume 4, issue 4, 2018. ISSN 0972-0464, Page No 176-180.

February 06th, 2019: Dr. Kaliprasad C.S, Assistant Professor, Department of Physics published a research paper entitled “Radon exhalation rate and radon activity in soils of riverine environs of South Karnataka,” in the “Radiation Protection and environment Journal”, Volume 4, issue 4, 2018, ISSN 0972-0464, Page No 189-191.

February 21st-22nd, 2019: Dr. Kaliprasad C.S, Assistant Professor of Department of Physics presented a research paper entitled "Effect of NH₄Cl doping on Electrical and structural Properties of Polyethylene Oxide" in the “National Conference on Physics and Chemistry of Functional Materials (PCFM 2019): held at PCFM-2019, School of Technology, GITAM Hyderabad.

The image shows a man in a light green shirt standing next to a large scientific poster. The poster is titled "PCFM-2019 Experimental and theoretical characterization of Ethyl 1-benzyl-2-(thiophen-3-yl)-1H-benzod[imidazole]-5-carboxylate" and lists authors Suresha B L¹, Madhan Kumar S², Kaliprasad C S¹, and Sumantha H S¹. The poster content includes:

- Introduction:** Discusses the heterocyclic benzimidazole moiety and its various biological activities.
- Synthesis:** Describes the synthesis of ethyl ethyl 4-(benzylamino)-5-nitrobenzoate (EMN) and thienophen-2-yl 4-(benzylamino)-5-nitrobenzoate (EMN) in DMAC (10ml) added sodium dihydrogen phosphate (10 eqs).
- Figure 1:** Scheme of synthesis and title compound.
- Figure 2:** ORTEP of the title molecule.
- Figure 3:** UV absorption spectra.
- Figure 4:** UV absorption spectra.
- Figure 5:** Two different views of molecular electrostatic potentials mapped on electron density isosurface at 0.001 au.
- Conclusion:** Summarizes the synthesis and characterization of the title molecule.

March 18th to 20th, 2019: Dr. KaliPrasad C.S, Asst. Prof., Dept. of Physics & Sumantha H .S Research scholar Dept. of Physics participated and presented a research paper in the Advanced Functional Materials for Energy, Environment and Health Care (AFMEEHC) Sponsored by University with Potential for Excellence (UPE), UGC at the Center for Materials Science & Technology (CMST), Vijnana Bhavan, Manasagangothri, Mysuru, India – 570006



April 08th, 2019: Dr. Kaliprasad C.S, Assistant Professor, Department of Physics published a research paper entitled “Distribution of natural radionuclides and assessment of excess lifetime cancer risk along coastal areas of Varkala in Kerala,” in the “Journal of Radio analytical and Nuclear Chemistry”, 2019. ISSN 1588-2780, Page No 1-7. <https://doi.org/10.1007/s10967-019-06509-6> (Springer, Impact Factor: 1.2)

May 27th, 2019: Dr. Kaliprasad C.S, Assistant Professor, Department of Physics published a research paper entitled “Assessment of natural radionuclide enrichment and radiation hazard from building materials in Kannur District, Kerala,” in the “Journal of Radio analytical and Nuclear Chemistry”, 2019. ISSN 0236-5731, Page No 1-7. <https://doi.org/10.1007/s10967-019-06519-4> (Springer, Impact Factor: 1.2)