



Bapuji Educational Association (Regd.)

**Bapuji Institute of Engineering and Technology,
Davangere-577004**

(Affiliated to VTU, Belagavi, Approved by AICTE, New Delhi)

Accredited by NAAC with 'A' Grade

CHEM NEWS

A HALF YEARLY NEWSLETTER

DEPARTMENT OF CHEMISTRY

July-December 2022

Chairperson	Editorial and Advisory Members	
<i>Dr. Mallikarjuna H R</i>	<i>Dr. B M Prasanna</i> <i>Smt. Thriveni M G</i> <i>Dr. J K Prasanna Kumar</i> <i>Ashwini R K</i>	Department of Chemistry Bapuji Institute of Engineering and Technology, Davangere-577004, P.O. Box. No. 325, Shamanur Road, Davangere hodchemistrybiet@gmail.com

VISION

To provide an opportunity for budding engineers and enabling fresh minds to acquire fundamental insights into chemical science required for all disciplines of engineering and technology.

MISSION

M₁. : To teach fundamental concepts of science essential for the different programmes of Engineering and Technology

M₂. : To acquire competent mind, to inculcate the culture of research and innovation among the students.

M₃. : To encourage students to participate in co-curricular and extra-curricular activities leading to enhancement of their social and professional skills.

1. FDP/WORKSHOPS ORGANIZED /ATTENDED

Dr H R Mallikarjuna:

- Participated in “One day Faculty Orientation Program for VTU affiliated college teachers on *Revised Chemistry Syllabus - 2022*” organized by the Department of Chemistry, JSS Academy of Technical Education, Bengaluru in association with VTU, Belagavi on 24th November 2022.

Smt. Thriveni M G :

- Worked as *DCS* for VTU examinations at UBDT college of engineering Davangere from 22nd to 29th May 2022

Sri. J K Prasannakumar :

- Participated in five day online FDP on Engineering materials from 11.07.2022 to 16.07.2022 organized by DBIT, Bangalore

Dr Sunitha R M:

- Program on “*Introduction to Python Programming*” organized by Bapuji Institute of Engineering and Technology, Davangere in association with Visvesvaraya Technological University, Belagavi at B.I.E.T., Davangere on 12th to 14th of December -2022

2. Students Activities/ Programmes organized



Inaugural program of Student Induction Program – 2022



Invited key note speakers during Student Induction Program-2021-22



Paper communicated and Published in National and International Journal:

Dr.B. M. Prasanna publications:

- i. Yankappa A Kulakarni, MR Jagadeesh, Abdulraheem SA Almalki, BM Prasanna, DG Praveen Kumar, A Alhadhrami, Abdullah Alsubaie, MS Vasanthkumar, S Shivakumara, AC conductivity and dielectric investigations of amorphous manganese oxide and amorphous manganese oxide/conducting polymer nanocomposites, *Journal of Materials Science: Materials in Electronics (Q₂-Springer Nature)*, Vol 34, 176.
- ii. JR Kumar, Abdulraheem SA Almalki, **BM Prasanna**, P Prasad, Narayana Hebbar, Abdullah Alsubaie, Polyethyleneimine–Chromium Oxide Nanocomposite Sensor with Patterned Copper Clad as a Substrate for CO₂ Detection *Journal of Electronic Materials*, (Q₂-Springer Nature), Vol 51, pp 6416-6430. <https://link.springer.com/article/10.1007/s11664-022-09879-y>
- iii. Santhosh Kumar, Hassan AH Alzahrani, GJ Shankaramurthy, KK Nagaraja, Abdulmohsen Alsairi, **BM Prasanna**, N Chandamma, Effects of γ -irradiation on AC electrical and impedance spectroscopy of Ni-Zn nano ferrites, *Physica Scripta*, 2022; (Q₂-IOP Science Publishers), Impact Factor: 2.48
- iv. Hassan A H Alzahrani, Abdulmohsen Alsaiari, Madhukesh, JK, Naveen Kumar R, **Prasanna BM**, Effect of thermal radiation on heat transfer in plane wall jet flow of Casson nanofluid with suction subject to a slip boundary condition, *Waves in Random in Complex Media*. 2022;1-18. **Impact Factor: 4.853**. doi. 10.1080/17455030.2022.2030502.
- v. Abdulmohsen O Alsaiari, Hassan A H Alzahrani, N Madhukeshwara, **B M Prasanna**, **Heat transfer augmentation in a solar air heater with conical roughness elements on the absorber**, *Case Studies in Thermal Engineering*, 2022; 102210. <https://doi.org/10.1016/j.csite.2022.102210>. (Q₁-Elsevier) **Impact Factor: 6.28**.
- vi. Abdulmohsen O Alsaiari, Ahamed Iqbal, Hani Abdulkhair, Lassaad Gzara, Eydah Almatrafi, Hassan AH Alzahrani, N Madhukeshwara, **BM Prasanna**, Maha Aljohani, *Case Studies in Thermal Engineering (Q₁-Elsevier)*, Vol 40, pp 102517. <https://doi.org/10.1016/j.csite.2022.102517>

J K Prasannakumar publications:

- I. J. K. Prasannakumar, G.K. Prakash, H.S. Onkarappa, B. Suresh and B.E. Basavarajappa (2022). Synthesis and Characterization of Nanocellulose from Lignocellulosic Agricultural Biomass by Acid Hydrolysis. Asian J. Chem. 34(10), 2639-2645. <https://doi.org/10.14233/ajchem.2022.23900>. (Scopus Indexed).
- II. J. K. Prasannakumar, G. K. Prakash, B. Suresh and B. E. Basavarajappa (2022). Green Synthesis of Nanocellulose Fibers from Ragi Stalk and its Characterization. Asian Journal of Green Chemistry, 6(3), 273-283. doi:10.22034/ajgc.2022.3.7. (International).
- III. J. K. Prasannakumar, G. K. Prakash, B. E. Basavarajappa, B. Suresh (2022). Synthesis and Characterization of Mango Wood Nanocellulose Fibers. Asian Journal of Chemical Sciences, 12(2), 39-49. <https://doi.org/10.9734/ajocs/2022/v12i219145>. (International).
- IV. J.K. Prasannakumar, G.K. Prakash, H. S. Onkarappa, B. Suresh and B. E. Basavarajappa (2022). Synthesis of Nanocellulose from Groundnut Husk in Ionic Liquid Medium and their characterization. J. Applicable Chem., 11(4), 539-548. (International)
- V. J.K. Prasannakumar, G.K. Prakash, B. Suresh, H. S. Onkarappa and B. E. Basavarajappa (2022). Synthesis and Characterization of Nanocellulose fibers from Ragi Stalk by Acid Hydrolysis. J. Applicable Chem., 11(4): 557-566. (International)
