



## Karnatak University's, KARNATAK SCIENCE COLLEGE, DHARW



#### NAAC Accredited

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- 6.5.3 Quality assurance initiatives of the institution include:
  - 1. Regular meeting of Internal Quality Assurance Cell (IQAC); Feedback collected, analyzed and used for improvements
  - 2. Collaborative quality initiatives with other institution(s)
  - 3. Participation in NIRF
  - 4. any other quality audit recognized by state, national or international agencies (ISO Certification, NBA)

#### IQAC regularly conducting the meetings to execute the progress of plan of actions.

#### The following meetings were conducted:

- i) Meeting was arranged on September 12, 2022, and it was resolved to conduct the Cultural Fest 2022. The College Central Librarian was tasked with adopting an automated student movement register, and the Library Management System (E-Lib) was to be implemented for book segregation.
- ii) On June 10, 2022, a meeting was conducted to discuss extension activities in adopted villages, conduct value-added courses, and arrange a placement drive on the campus.
- iii) On December 23, 2022, a meeting was convened, and it was resolved to establish Memoranda of Understanding (MoU) with other educational/research institutions and industries. The aim is to conduct Joint Admission Test (JAM) and coaching for competitive exams during holidays, along with other initiative programs.
- iv) On April 28, 2023, a meeting was convened, and it was resolved to conduct activities with MoU institutions, organize an alumni meet, perform a green audit, redesign the college website, conduct programs on soft skills, and constitute a committee to review the SSR, etc.

#### 2. Collaborative quality initiatives with other institution(s)

- IQAC established MoUs with Industries/Institutions to strengthen Research & Teaching and other academic developments.
- a) **MOUs with Tunghai University Taiwan**: It is meant for mutual collaboration in research, projects, conferences, workshops, extension programs, and faculty visits
- b) MOUs with the Centre for Research in Functional Materials (CRFM), Jain University, Bangalore: It is meant for mutual collaboration in research work..
- c) MOUs with Nicrom Laboratory: It is meant for assessing green, environmental, and energy audits, and our students use their laboratories.
- **3) Participation in NIRF: College has** undergone for the assessment of National Institutional Ranking Framework.

## ONE DAY WORKSHOP AND TRAINING PROGRAM ON RENEWABLE ENERY SOURCES AND SOLAR POWER

On 16<sup>th</sup> November 2022, B.Sc. students from our college, accompanied by four faculty members, visited the "**Jnanavikasa Orientation & Training Institute**" located at the SELCO Solar Light Pvt Ltd, Campus in Rayapura, Hubballi. The purpose of the visit was to receive training on solar lighting and power systems. The students were enhanced their knowledge of solar lighting and power systems. Dr. Saraswati P. Masti, SWO and Shri. M.R. Ranganath, HOD, Department of Physics, Karnatak Science College, Dharwad along with two more faculty members accompanied the students, providing guidance and support throughout the visit.

The institute specializes in providing training on solar lighting and power systems, aiming to create awareness and promote the use of sustainable energy solutions. The visit included hands-on training sessions where students had the opportunity to learn about the working principles, installation procedures, and maintenance aspects of solar power systems. They were guided by experienced trainers and professionals from the institute. The training program also consisted of interactive sessions, allowing students to ask questions, discuss concepts, and gain a deeper understanding of solar energy technologies.

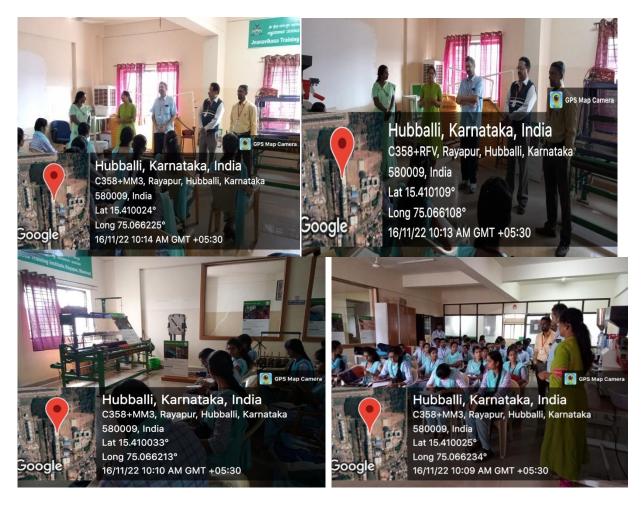
The visit to the Jnanavikasa Orientation & Training Institute provided B.Sc. students with practical knowledge and exposure to solar energy technologies. This hands-on experience will be invaluable as they pursue careers in the field of renewable energy. The training program aimed to educate and create awareness about the importance of sustainable energy solutions, particularly solar power. It emphasized the role of solar energy in mitigating environmental challenges and reducing dependence on fossil fuels. The visit contributed to the skill development of the students by equipping them with technical expertise in solar energy technologies. These skills will be beneficial as they engage in future projects and initiatives related to renewable energy.

This visit not only expanded the students' horizons in the field of renewable energy but also instilled in them a sense of environmental consciousness. It is expected that the knowledge gained from this training will contribute to their personal and professional growth, fostering a more sustainable future.





Our students participated in the orientation and training programme organized at Selco solar light Pvt.campus, Rayapu, Hubballi



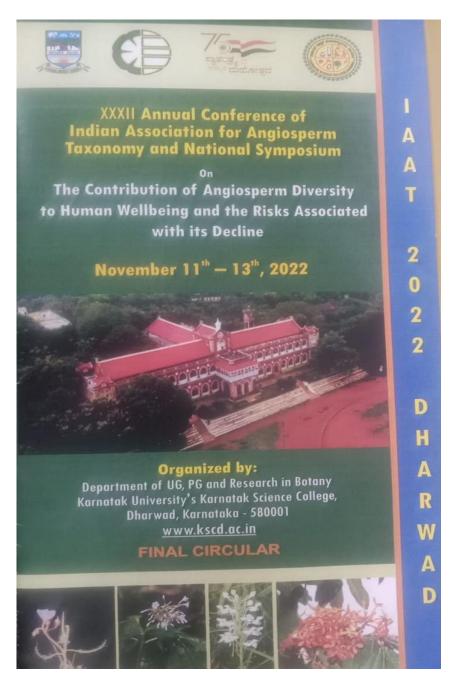
Selco solar light Pvt faculty explaining about Solar Lighting Power system. Our faculty members are also present on the occasion.



A group photo of participants in the training programme with college staff.

#### THREE DAYS NATIONAL CONFERENCE:

The XXXII Annual Conference of the Indian Association for Angiosperm Taxonomy (IAAT) and the National Symposium on The Contribution of Angiosperm Diversity to Human Wellbeing and the Risks Associated with its Decline was organized by Dept. of Botany, Karnatak Science College, Dharwad from 11 to 13 November 2022. The Symposium was inaugurated by Prof. K.B. Gudasi (Vice Chancellor, Karnatak University, Dharwad). The inaugural function was presided over by Prof. G.G. Maity (President IAAT). The Organizing Secretary of the IAAT Conference, Prof. K. Kotresh, Department of Botany, Karnatak Science College introduced the programme and welcomed the participants, Prof. (Smt). Doris M.Singh and Prof. K.P. Kolkar were on the dais.





Inauguration of XXXII Annual Conference of the Indian Association for Angiosperm Taxonomy (IAAT)

XXXII Annual Conference of Indian Association for Angiosperm Taxonomy and National Symposium
On
The Contribution of Angiosperm Diversity to Human Wellbeing and the Risks Associated with its Decline

November 11th - 13th, 2022



Organized by:
Department of UG, PG and Research in Botany,
Karnatak University's, Karnatak Science College, Dharwad, Karnataka - 580001

## "ONE DAY WORKSHOP ON Gamma Ray Spectroscopy"(For B. Sc. VI Semester Students)

Nuclear reactions are accompanied by the emission of charged particles such as alpha, protons, electrons, uncharged neutrons and electromagnetic radiations like gamma rays and X rays. In order to understand the properties of these particles or radiations and also their interactions with the atomic nuclei, different types of nuclear detectors are employed. Examples for these detectors are GM counter, proportional counter, ionization chamber, Si (Li) and HPGe semiconductor detectors, Inorganic and organic scintillators, photographic emulsions, Cerenkov detectors and Bubble chamber. Most widely used detector is NaI (Tl) scintillator Gamma Ray Spectrometer. It is reported that around 300 radio nuclides can be easily detected with this detector. This GRS is used extensively in the study of nuclear structure, nuclear transitions, nuclear reactions, in space research, and also in the elemental and isotopic analysis.

The Einstein Study Circle forum of Department of Physics, Karnatak Science College, Dharwad had organised one day workshop on Gamma Ray Spectroscopy (GRS) on 4<sup>th</sup> May 2023 for B.Sc. VI semester students. Twenty students participated in this workshop. The workshop was inaugurated by Principal, Dr. S.C. Chougala. In his inaugural address, Principal emphasised on developing additional skills along with the regular academic programme. Prof. M.R. Ranganath, H.O.D., Department of Physics, accentuated the merits of GRS in the campus and motivated the students to involve actively in the workshop. Dr. (Smt.) Nirupama J.M., Chairperson, Einstein Study Circle, highlighted about the objectives and importance of the workshop.

In the morning session, resource person, Dr. Nirupama J.M. gave a lecture on classification of detectors, working principle of NaI(Tl) scintillator detectors, basic mechanisms involved in the interaction of Gamma rays with the material of the detector and applications of the nuclear detector in various fields. Resource person, Prof. Blaise Lobo elucidated about different parts of the Gamma Ray Spectrometer, conversion of light output into electrical signal, signal processing, pulse height analysis, energy calibration and data acquisition. In the afternoon session, Resource persons Mr. R.C. Yadav and Prof. M.R. Ranganath gave hands on training to the students on Gamma Ray Spectrometer.



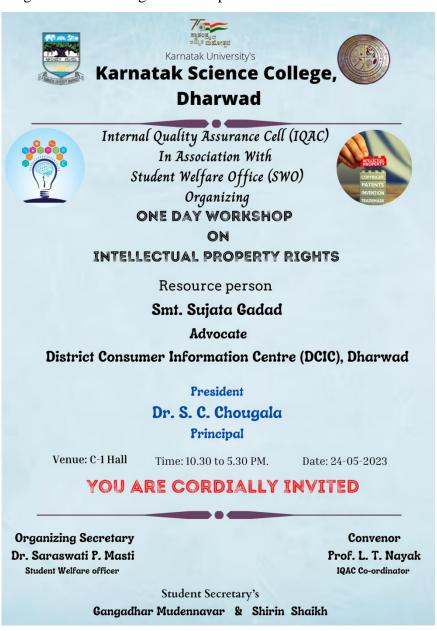
Kumari Srushtri Hebballi sung invocation song on the occasion of ONE DAY WORKSHOP ON Gamma Ray Spectroscopy.



Student and Staff participating in ONE DAY WORKSHOP ON Gamma Ray Spectroscopy

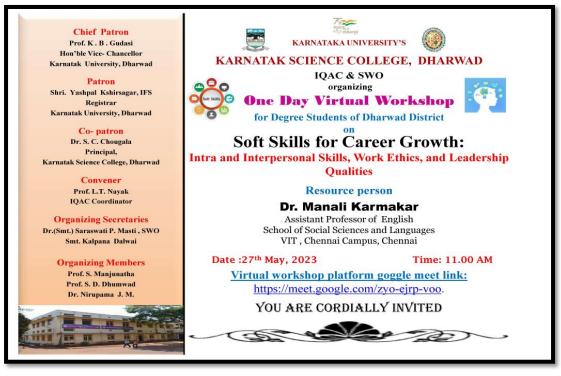
#### ONE-DAY WORKSHOP ON INTELLECTUAL PROPERTY RIGHTS

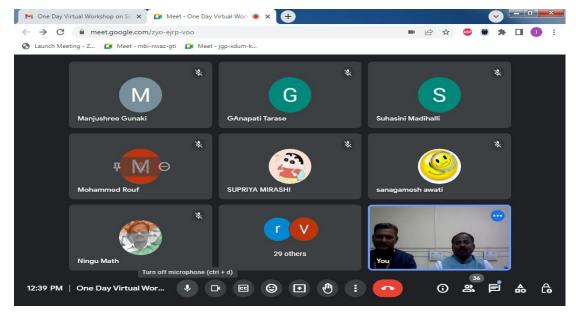
One Day Training Programme on Intellectual Property Rights was organized on 24<sup>th</sup> May, 2023 from 10:30 am to 5:30 pm. The Programme started with registration followed by inaugural function. In this event 74 students were participated. Mrs.Sujata Gadad, an Advocate from the P.G. Department of Law, Karnatak University, Dharwad was the resource person. Mrs. Sujata Gadad provided valuable knowledge about the intellectual property rights and their significance in day to-day life. In fact the training session was fruitful and Participants were benefited. The programme concluded with a valedictory function where certificates were distributed to the participants. Dr. L. T. Nayak, IQAC Co-ordinator, Dr. Saraswati P. Masti, SWO and teaching and non-teaching staff were present in the event.



#### ONE DAY WORKSHOP ON SOFT SKILL FOR CAREER GROWTH

One day workshop on "Soft Skills for Career Growth: *Intra and Interpersonal Skills, Work Ethics, and Leadership Qualities*" was conducted on 27<sup>th</sup> May 2023. Dr. Manali Karmakar, Assistant Professor of English, School of Social Science and Languages, VIT Chennai Campus, was the resource person. 83 students attended the session and majority of the students interacted with the resources person. In the first session Dr. Manali Karmakar explained Intra and Interpersonal Skills, Work Ethics and Leadership qualities and conducted practical test and solved the student's problem related to soft skills. The workshop was so meaningful and students enjoyed the session.





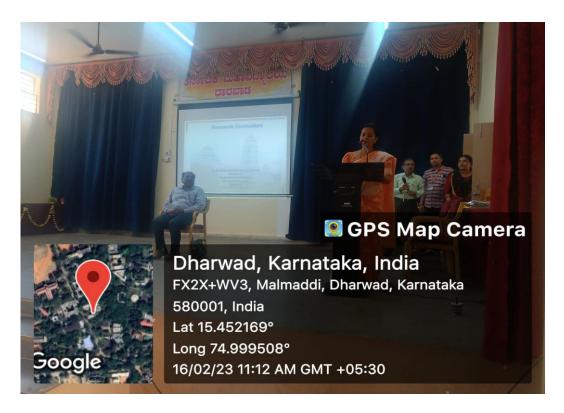
One day virtual workshop screenshot of participants

#### TWO DAY WORKSHOP ON RESEARCH METHODOLOGY

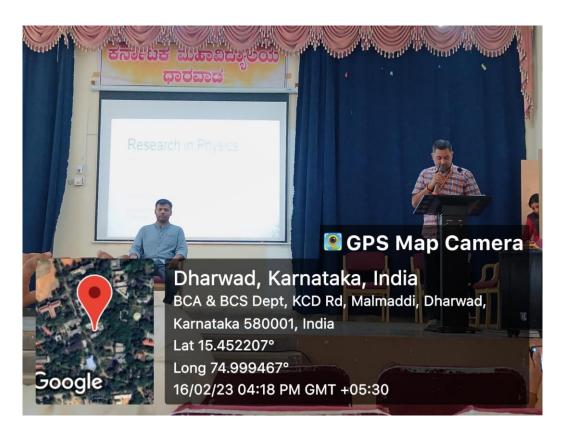
Two day workshop on Research Methodology: Two Days Workshop was organized on Research Methodology for all the PG Students of Physics, Chemistry, Mathematics and Botany subjects on 15th and 16th Feb, 2023. This workshop was inaugurated by Dr. H.B. Walikar, former Vice Chancellor, Karnatak University Dharwad on 15th Feb, 2023. He delivered key note address on Big Bang theory and Prime numbers. Dr. Nilkamal Mahanta, Head, Department of Chemistry, IIT - Dharwad gave first invited talk. First talk was on the topic: "Higher Studies, Research Opportunities and Career Prospects in Science". He told students how one can get into IIT through various modes like JEE, GATE, Project Fellowship to pursue their education at IIT's and IISc and National institutes of research. Dr. M. K. Rabinal, Professor, Department of Physics, Karnatak University, Dharwad gave the second invited talk on the 16th Feb, 2023. Professor's focus of the lecture was on Research methodology, and highlighted the mode of research encouraged to look at the existing problems around us and analyze it. Dr. Koushik Saha, Assistant Professor, Department of Physics, IIT Dharwad, delivered lecture on the History of Evolution of Science and Physics. Principal of the college Dr. S. C, Chougala was present throughout the workshop and felicitated all invited speakers and guests. H.O.D of all PG departments, Dr. S. D. Dummawad, Dr. K. Koteresh, Prof. Ambika R., Prof M. R. Ranganath Prof. Blaise Lobo, Chairman, Science Association, Dr. Geeta Chavan, Dr. O. Kotresh, Dr. K. S. Katagi, Prof. Lalita Naik, Prof. Kalpana Dalawai were also present.



Dr. Nilkamal Mahanta, Head, Department of Chemistry, IIT - Dharwad delivering a invited talk.



Staff of the College introducing the Resource person



Dr. M.R.Ranganath Department of Physics giving the introduction of Dr. M. K. Rabinal, Professor, Department of Physics, Karnatak University, Dharwad



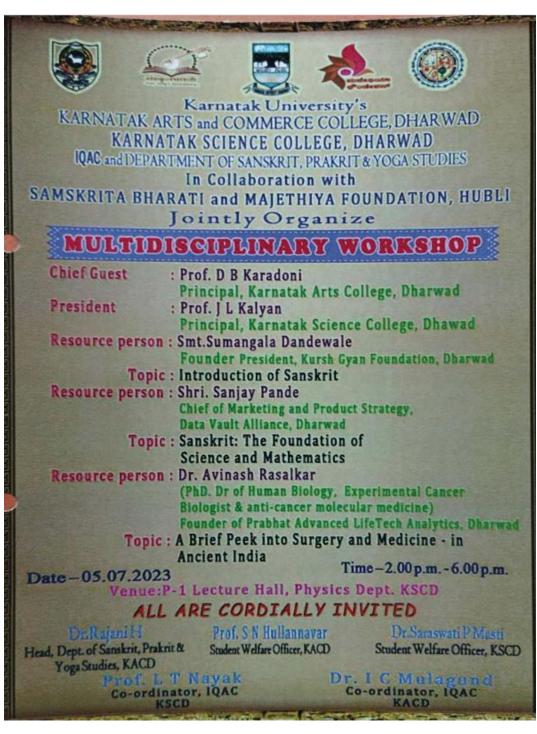
Dr. M. K. Rabinal, Professor, Department of Physics, Karnatak University, Dharwad giving a lecture.



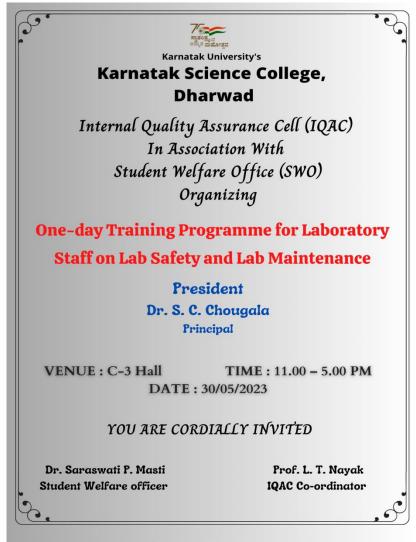
Dr. Koushik Saha, Assistant Professor, Department of Physics, IIT Dharwad, delivered lecture on the History of Evolution of Science and Physics.

#### **MULTIDISCIPLINARY WORKSHOP: SANSKRIT'S DIVERSE ASPECTS**

On 5<sup>th</sup> July, 2023 Karnatak Arts and Science College, IQAC, and the Department of Sanskrit, Prakriti and Yoga Studies, in association with Samskrita Bharati and Majethiya Foundation, Hubli organized workshop on Sanskrit's diverse aspects. Smt. Sumangala Dandewale, Founder President of Kursh Gyan Foundation, Shri. Sanjay Pande, Chief of Marketing and Product Strategy at Data Vault Alliance and Dr. Avinash Rasalkar were the resource persons.82 students were benefited from this workshop.



One-day Training Programme for Laboratory Staff on Lab Safety and Lab Maintenance: One-day training program for laboratory staff, including Lab. Assistants and Lab. Attainders, was organized on 30<sup>th</sup> May, 2023 from 11:00 am to 5:00 pm. The circular issued on 29th May, 2023 by the principal. Dr. S. C. Chougala informed all laboratory staff members to attende the training compulsorily and make use of the same. E- Governance can be viewed as a subset of e-governance and focuses on improving administrative efficiecy. Laboratory technicians are backbone of lab. They carry out task that supports faculties and with efficient work. Lab technicians prepare equipments for experiments and ensure chemical are stored and dispose safely. The resource persons of this particular training were senior professors of the respective departments. Dr.( SMT). Sarswati Masti Dept. Of Chemistry gave the training for chemistry lab Assistants. She emphasized on demonstrating procedures and planning, setting up and undertaking controlled experiments and trials. The afternoon session was conducted at C-3 Hall, Department of Chemistry. Prof. Blaise Lobo spoke about physical science experiments and instrument management. Biological science experts Dr.(Smt.) R.D. Sankal discussed on the role collecting, preparing and tastings of biological samples. The training programm was concluded with an interactive session with lab and experts staffs.





Resource person explaining chemistry lab.insturments. Resource person explains about the operating procedure of Furnace



Dr.(Smt.) Sarswati Masti explaining the functioning of Furnace



Dr. Jyoti Doddamani demonstrating the working of circuit connection

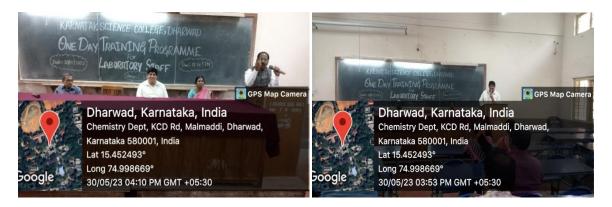


A view of demonstration of circuit diagram. persons

Lab. Staffs listening the words of resources



A View of participants along with resource persons.



Valedictory remarks by Dr.S.C.Chougala, Principal, Karnatak Science College, Dharwad

#### **One-Day Computer Training Program for Office Staff**

To enhance office staff's computer skills and efficiency in common software applications used in daily tasks. **One-Day Computer Training Program for Office Staff was conducted on** 31<sup>th</sup> May, 2023 at Karnatak Science college, Dharwad. Hands on training given by technical export Smt. Akshata Kadam.

#### Session 1:( 10.30 AM – 1.00 PM )

- **Procedures of E-Governance-** Creating, organizing, and managing folders and files.
- Effective Email Communication: Setting up and managing email accounts (e.g., Outlook, Gmail)Composing, formatting, and sending emails. Managing inbox, organizing emails into folders. Using email etiquette and best practices
- **Introduction to spreadsheets** (e.g., Microsoft Excel, Google Sheets): Creating and formatting spreadsheets:

#### Session 2:( 2.00 PM – 5.00 PM )

- Handling of UUCMS portal: login process and other technical details help in daily work.
- Open discussion and clarification of doubts.
- Hands-on practice exercises to reinforce skills learned after the session





Trainers operating UUCMS portal after the training sessions





Trainers interacting with the resource persons

#### **One-day training programme for competitive examinations**

Parents Meet held on 28-05-2022 where many parents suggested conducting the competitive examinations for interested students. In view of this IQAC and student welfare officer organed "One-day training programme for competitive examinations" for students on 28-06-2022 at C-1 hall, Department of Chemistry, Karnatak Science College, Dharwad. The formal speech was delivered by Dr. L. T. Nayak, IQAC co-ordinator and the event was welcomed by Dr. S. D. Dhumwad, Associate Professor, Department of Chemistry, Karnatak Science College, Dharwad. The special invitee P. Dastagiri Reddy, Chairman, Sri Guru Ragavendra Educational Institutions, Andhra Pradesh trained the students how to crack competitive examinations without coaching. Around 200 students from B.Sc, BCA and M.Sc programmes were participated in the programme. The following are the contents covered in the programme.

- 1. Students are informed regarding various competitive exams like IAS/ KAS /PSI/ FDA/ SDA/ PDO/ PC/IBPS/SBI/LIC/RRB/NTPCL for various posts available after degree.
- 2. Guidance given to the students regarding preparations, collection of study materials and how to prepare for the exams.
- 3. Students are advised to make use of 3 months of free training course in this regard in the Study in Sri Guru Ragavendra Educational Institutions, Andhra Pradesh.
- 4. Students are given mock test on current affairs to create awareness regarding competitive exams pattern.
- 5. Students are trained about time management skills and linguistics skills.
- 6. Study materials were supplied free of cost for participated students.

At the onset, Sri. P. Dastagiri gave students an overview of the competitive examination scenario. A competitive potential assessment test for testing students on their aptitude potential was held. Sri. P. Dastagiri said the sole objective of the workshop is to produce top rankers. "We want students to acquire knowledge rather than mere information. The students should start preparing well before they approach competitive exams. Students only learn the laws of science in the classroom, but the application is more important. Ultimately, the aim is to produce knowledgeable students". The President Dr. S. C. Chougala, karnatak Science College, Dharwad, gave presidential remarks. Dr. Saraswati P. Masti, Student Welfare Officer, karnatak Science College, Dharwad delivered her heartfelt vote of thanks.





P. Dastagiri Reddy, Chairman, Sri. Guru Ragavendra Educational Institutions, Andhra Pradesh giving tips to the students how to crack competitive exam smart work..



Students taking points given by Dastagiri Reddy's.

### 4. One Day Virtual Workshop for Degree Students of Dharwad District on Soft Skills for Career Growth

The Karnataka Science College, Dharwad, in collaboration with the Internal Quality Assurance Cell (IQAC) and the Students' Welfare Office (SWO), organized a virtual one-day workshop on **27**<sup>th</sup> **May**, **2023**. The workshop entitled, "**Soft Skills for Career Growth:** Intra and Interpersonal Skills, Work Ethics, and Leadership Qualities" aimed to equip degree students from Dharwad District with essential skills for their professional journey.

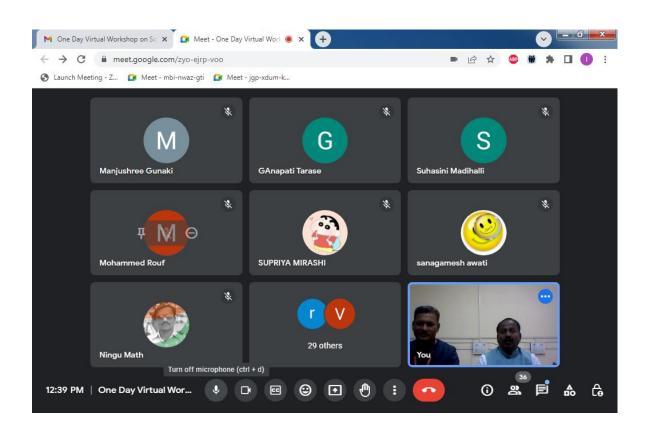
Dr. Manali Karmakar, Assistant Professor of English at the School of Social Science and Languages, VIT Chennai Campus, was the resource person. She is expert in soft skills and made the workshop more interesting, insightful and interactive. Participants explored topics ranging from communication skills to work ethics, all essential for holistic career development.

The workshop was honored to have Prof. K. B. Gudasi, Hon'ble, Vice-Chancellor, Karnataka University, Dharwad, as the Chief Patron. Shri. Yashpal Kshirsagar, IFS, Registrar, Karnataka University was the Patron, and Dr. S C Chougala, Principal, Karnataka Science College, was the Co-Patron.

Prof. L. T. Nayak, IQAC Coordinator, was the Convenor of the programme, ensuring the event's smooth execution. Dr. (Smt.) Saraswati P. Masti, SWO and Smt. Kalpana Dalwai were the Organizing Secretaries, Prof. S. Manjunath, Prof. S. D. Dhumwad, and Dr. Nirupama J. M. were the organizing secretaries. The workshop underscored the collaborative commitment of educational institutions towards nurturing well-rounded and skilled graduates, poised for success in their future endeavours.









#### A CERTIFICATE OF APPRECIATION ISSUED TO RESOURCE PERSON

# One Day Training Program on Problems and Solutions of UUCMS Operational Procedures for Institutional UUCMS Nodal Officer and Office Staff of Dharwad District Colleges

One day training program on "Problems and Solutions of UUCMS Operational Procedures for Institutional UUCMS Nodal Officer and Office Staff of Dharwad District colleges were organized on March 15, 2023, at BCA Auditorium. The program was attended by the Institutional Nodal officers and Office staff of various colleges of the Dharwad district. The program aimed to provide insights and solutions to the challenges faced by the participants in using the UUCMS system effectively.

The event commenced at 9 am with a warm welcome speech by Dr. L.T. Nayak, IQAC Coordinator, who extended his gratitude to all the attendees. He highlighted the significance of the UUCMS program in promoting college development and improving the quality of higher education in Karnataka. This was followed by a formal speech by Dr. R.Y. Budihal, KSCD. UUCMS Nodal Officer. Dr. R. Y. Budihal emphasized the importance of the UUCMS program in fostering collaboration and synergy between universities and colleges, and how it can contribute to the overall growth of higher education in the state. All the dignitaries joined hands in the inauguration of one day training programme by lighting the lamp. The gathering was addressed by Dr. D.B. Karadoni, the Principal, Karnataka Arts College, Dharwad. Dr. D. B. Karadoni shared his views of challenges and opportunities in the field of higher education and also emphasized the need for continuous improvement in the quality of education imparted in colleges.

First technical sessions was commenced at 11.00 am, conducted by Dr. S.M. Tuwar, the Director, College Development Council, KUD. Dr. S. M. Tuwar shared his expertise on college development and the role of UUCMS in facilitating effective collaborations between universities and colleges. The session was introduced and welcomed by Smt. Kalpana Dalwai.

After the lunch break at 2.30 pm, the second technical session was conducted by Dr. Shivashankar. S, UUCMS Nodal Officer, KUD. Dr. Shivashankar enlightened and provided valuable inputs for the effective implementation of the UUCMS portal in affiliated colleges of Karnatak University, Dharwad. The event ended on a positive note, with a collective commitment to promoting college development and enhancing the quality of higher education in the state implementation and benefits of the UUCMS program, and how it can lead to the holistic development of colleges. The session was introduced and welcomed by Smt. Akshatha Kadam. Dr. S.C. Chougala, Principal, Karnataka Science College, Dharwad delivered the presidential remarks. Dr. S.C. Chougala emphasized the need for effective implementation of the UUCMS program for the overall development of Colleges and Universities in Karnataka.

The event concluded at 5.00 pm, with a vote of thanks by Dr. Saraswati P. Masti, the SWO (Students Welfare Officer) of KSCD. Dr. Saraswati P. Masti expressed her gratitude to all the dignitaries, resource persons, and attendees for their participation and contributions to the event.



 $\label{lem:condition} \mbox{UUCMS Nodal Office and Office Staff of Dharwad District colleges in the training programme}$