

## Brief Report

### Science Academies' Lecture Workshop on

### Biological Diversity, Bioprospection & Conservational Strategies

26<sup>th</sup> – 28<sup>th</sup> December 2022

#### Releasing of Broacher:

On 25<sup>th</sup> December 2022, we released the broacher of the event & inform to all the nearby colleges and Universities in & around the Srikakulam

#### ABOUT THE SCIENCE ACADEMIES

##### Indian Academy of Sciences

Founded in 1934 by Sir C V Raman the Indian Academy of Sciences, Bangalore was registered as a Society on 27 April, 1934 with the main objective of promoting the progress and upholding the cause of science. The Academy began functioning with 65 Founding Fellows & the formal inauguration took place at the Indian Institute of Science. On the same afternoon its first general meeting of Fellows was held during which Sir C V Raman was elected President & the draft resolution of the Academy was adopted. In the same month of 1934, the first issue of the Academy's earliest publication was published. The Academy from its very beginnings has taken great interest & initiative in publishing science research & today publishes 10 science journals in different disciplines, uses an online submission & review management system that's trackable, papers are peer reviewed & published content is made available online & open access. The Academy's contribution to science and society is also reflected through its policies, values and its range of activities which include: The Academy Fellowship; Annual & Mid-Year Meetings; Science Education Programmes; Sponsorship of Discussion Meetings; The Women in Science Panel; Repository of Scientific Publications of Academy Fellows; Oral History Archives; Committee on Scientific Values; Raman Chair Professorship; Jubilee Chair Professorship; Publications of the Academy; Contributions to Science Policy.

##### National Academy of Sciences, India

The National Academy of Sciences, India was founded in the year 1930, with the objectives to provide a national forum for the publication of research work carried out by Indian scientists & to provide opportunities for exchange of views among them. The National Academy of Sciences envisions the cultivation & promotion of Science & Technology in all its branches through: Promoting scientific & technological research related to the problems of societal welfare; Publication of proceedings, journals, memoirs, transactions & other works as may be considered desirable; Organizing meetings & hold discussions on scientific & technological problems; Undertaking, through properly constituted committees & bodies, the scientific work(s) of technological or public importance; Co-operating with other organizations in India & abroad, having similar objects, & to appoint representatives of the Academy to act on national & international bodies; Securing & managing funds & endowments for the promotion of science & technology; Organizing a Science Library; Performing all other acts, matters & things that may assist in, conduce to, or be necessary for the fulfillment of the above mentioned aims & objects of the Academy; Creating an adequate impact of the Academy all over the country, by opening Chapters of the Academy in other cities in the country, where reasonable number of Fellows are available.

##### Indian National Science Academy

A premier science Academy in the country, it plays crucial role in promoting, recognizing & rewarding excellence. An important task of the INSA is to publish journals, organize scientific discussions & bring out monographs & other publications. The Academy promotes public awareness & understanding of science. Acting as a link between the scientific community & planners, it advises the government on critical issues relating to science and technology. It also serves as a forum for interactions among scientists within & outside the country. It recognizes outstanding young scientists, engineers & technologists through award of medals/prizes & by providing modest financial support for pursuing research. Senior scientists are honored through election to its Fellowship. Academy also provides different awards/medals & the prestigious Research Professorships. Superannuated fellows of the Academy can be supported through Senior Scientist & Honorary Scientist schemes. The Academy has established exchange programmes with different overseas Academies to facilitate visits of Indian scientists' to research institutions abroad & of foreign scientists to India for scientific discussions.



### SCIENCE ACADEMIES' LECTURE WORKSHOP ON Biological Diversity, Bioprospection & Conservational Strategies

26 – 28 December 2022

#### Convener



**Prof. M. Sanjappa,**  
INSA Honorary Scientist  
GVKV-Bangalore

#### Coordinator



**Mr. M. Pradeep,**  
Centre for Applied Sciences  
GDC (M)-Srikakulam

**Organized by  
CENTRE FOR APPLIED SCIENCES  
GOVERNMENT DEGREE COLLEGE (Men)  
Srikakulam  
Andhra Pradesh-532001**

#### ABOUT THE EVENT

The Science Academies have been supporting two/three days lecture workshops and fifteen days refresher courses on topics of current interest throughout the country. All the programmes conducted by the joint Science Education Panel of the Academies are fully supported by the Department of Science & Technology (DST), Government of India. DST has undertaken a series of activities to mark 75 years of India's Independence (Azadi Ka Amrut Mahotsav). The Mahotsav is a series of S & T programmes and events to be organized to commemorate the 75th anniversary of India Independence. The curtain raiser activities began from 12th March, 75 weeks prior to 15 August 2022. The Lecture Workshops/Refresher Courses are part of the series in these programmes. The Academy will also organize periodic lectures by eminent scientists. These programmes will be adequately expanded in the celebration of the 75th year of Indian Independence.

**Need & Purpose of the Workshop:** The aim of the present lecture workshop is to present close vicinity of everlasting expanding horizons of Biodiversity, Bioprospection & Conservation of Medicinal & aromatic plants to the students, research scholars and faculty member incumbent on and around the Srikakulam, Vijayanagaram and Visakhapatnam districts. This is a generous opportunity for our students, young researchers, and faculty members from the university and affiliated colleges to gain acquaintance with the stalwarts and experts from Indian academy of sciences on various thematic issues of workshop. Deliberations would be made to inculcate the spirit of persistent and continuous learning in the students about Medicinal Plants & aromatic plants, their diversity, distribution, recognition, isolation, conservation, extraction of bioactive compounds & therapeutic utility etc. To rejuvenate the spirit of Medicinal & Aromatic plants & their impacts on the society among the peer group. To acquaint the students about Govt. agencies support for research at different organizations, entrance to get the fellowships to carry research carrier in Life Sciences. The broad areas of proposed lecture workshop covers various aspects of Biodiversity & Conservation of Medicinal Plants, their distribution, recognition, isolation, extraction of bioactive compounds and therapeutic utility etc. Lecture series during the workshop are expected enlighten the importance of medicinal and aromatic plants with developing technologies. Thus the participants have ample opportunity to gain insights on rendition research.

**For whom it intended:** This lecture workshop is intended for the benefit of students, budding researchers and teachers at the graduate & post graduate levels and for discussion on various thematic current areas. This course has been designed to use its relevance to the materials of curriculum for both graduate and post graduate programs. Government Degree & PG Colleges, Govt. Aided Degree & PG Colleges, Affiliated Colleges, Agriculture Polytechnic Colleges from Srikakulam, Vijayanagaram and Visakhapatnam Districts will be benefitted.

**How many participants will be accepted:** 150 (One Hundred & Fifty Only). No registration fee, Lunch & Snakes will be provided to all the participants.

**How the announcement of the workshop will be disseminated:** Advertisement in Local News Papers, Local TV Channels, Distributing the Event Broachers' & Telephonic Intimation etc.

**How selection of the participants will be made from among the applicants:** All the received applications will be scrutinized and select the 150 applicants based on the norms of the academies panel and academic merits. The criteria that we wish to follow are: 1. Need of the Course to the participant, 2. Academic Merit, 3. Subject relevance; 4. Recommendations made by the head of the institute etc.

#### Day-1: Inauguration followed of 04 Lectures on 26-12-2022:

On 26<sup>th</sup> December 2022, by 9.30 am we started inauguration under the chairmanship of the Government Degree & PG College (Men)-Srikakulam principal Dr. P. Surekha. In the event, the course convener Dr. M. Sanjappa, Resource Persons Dr. R. R. Rao & Course Coordinator: Mr. M. Pradeep also took part.





Dr. P. Surekha, Principal, Government Degree College (Men)-Srikakulam in inaugural session

After inaugural session, technical sessions started as shown below

10.00am – 11.15am: Dr. R. R. Rao Lecture on “Biodiversity & Bioprospection”

11.40am – 12.55pm: Dr. M. Sanjappa Lecture on “Floristic Diversity in India: An Over View

2.00pm – 3.15pm: Dr. R. R. Rao Lecture on “Diversity Status, Distribution & Conservation Strategies of Indian Medicinal Plants”

3.40pm – 4.55pm: Dr. M. Sanjappa Lecture on “Role of Plant Taxonomy in Medicinal Plant Research & Bioprospection”



Prof. R. R. Rao, delivering Lecture & Participants in the event

# సైన్స్పై ఆసక్తి పెంచేందుకు కృషి



## మాట్లాడుతున్న ప్రొఫెసర్ ఎం.సంజప్ప

శ్రీకాకుళం న్యూకాలనీ: గ్రామీణ ప్రాంత విద్యార్థులకు సైన్స్ పట్ల ఆసక్తి పెంచేలా ప్రభుత్వాలు పలు కార్యక్రమాలు నిర్వహిస్తున్నాయని జీకెవీకే బెంగళూరుకు చెందిన అకాడమీ ఫెలో ప్రొఫెసర్ ఎం.సంజప్ప చెప్పారు. సెంటర్ ఫర్ అప్లైడ్ సైన్సెస్ విభాగం సైన్స్ అకాడమీస్ సౌజన్యంతో శ్రీకాకుళం

ప్రభుత్వ పురుషుల డిగ్రీ కళాశాలలో రెండు రోజుల లెక్చర్ వర్క్ షాప్ గురువారం కాన్ఫరెన్స్ హాల్ లో ప్రారంభమైంది. ప్రిన్సిపాల్ పి.సురేఖ అధ్యక్షతన జరిగిన ఈ కార్యక్రమంలో సంజప్ప మాట్లాడుతూ విద్యార్థులకు సైన్స్ పట్ల ఆసక్తిని కలిగించేలా లెక్చర్ వర్క్ షాప్ లు, రిఫ్రెషర్ కోర్సులు, సమ్మర్ ట్రైనింగ్ ప్రోగ్రామ్స్ నిర్వహిస్తున్నట్లు తెలిపారు. అనంతరం ప్రొఫెసర్ ఆర్.ఆర్ రావు, డాక్టర్ ఎం.శంకరరావు, ప్రొఫెసర్ ఎన్.ఎల్ రాజు మాట్లాడుతూ జీవ వైవిధ్యం, బయోప్రాస్పెక్షన్, కన్జర్వేషన్ స్ట్రాటజీస్ అనే అంశాలపై ప్రసంగించారు. కార్యక్రమంలో కోఆర్డినేటర్, కళాశాల బయోటెక్నాలజీ హెచ్.ఓ.డి. ఎం.ప్రదీప్, వివిధ కళాశాలల అధ్యాపకులు, విద్యార్థులు పాల్గొన్నారు.

## Paper Clipping of First day Event

### Day-2: 04 Lectures & Details of the 27-12-2022 event:

On 27<sup>th</sup> December 2022, by 10.00 am we started lectures 04 Resource Persons named Dr. M. Sanjappa, GKVK, Bangalore, Dr. R. R. Rao, GKVK, Bangalore, Dr. M. Sankara Rao, BSI-Hyderabad & Dr. N. L. Raju, Assam Central University delivered 04 Lectures. Detailed Below

10.00am – 11.15am: Dr. M. Sanjappa, GKVK, Bangalore Lecture on “Microbial Inoculants for Human Welfare”

11.40am – 12.55pm: Dr. R. R. Rao, GKVK, Bangalore Lecture on “Biogeochemical Prospection-Recent Trends”

2.00pm – 3.15pm: Dr. M. Sankara Rao, BSI-Hyderabad Lecture on “Quality Tag for Healing Plants”

3.40pm – 4.55pm: Dr. N. L. Raju, Assam Central University on “Soil Biodiversity-Present Scenario”

On the same day, the course convener Dr. R. R. Rao visited the various departments of the college and interacted with faculty & students





Dr. M. Sankara Rao, Scientist in BSI-Hyderabad delivering lecture & Interacting with the Participants

### **Day-3: 04 Lectures followed by Valedictory on 28-12-2022:**

On 28<sup>th</sup> December 2022, by 9.00 am we started lectures & by 4.00pm we completed. After that we started valedictory session. Prof. R.R. Rao, Academy Fellow was the chief guest. The details of the Lectures and Valedictory along with photographs and Paper Clippings attached below.

9.00am – 10.15am: Dr. M. Sankara Rao, Scientist in BSI-Hyderabad Lecture on “Plant Nomenclature”

10.40am – 11.55pm: Dr. NL Raju, Assam CU Lecture on “Role of Medicinal Plants in Human Welfare”

12.00 Noon – 1.15pm: Dr. M. Sankara Rao, Scientist in BSI-Hyderabad Lecture on “Botanical Gardens: Centers of Ex Situ Conservation”

2.30pm – 3.45pm: Dr. NL Raju, Assam CU Lecture on “Prospecting Medicinal & Aromatic Plants”

4.00pm – 5.00pm: Valedictory

