NATIONAL SEMINAR ON

CURRENT TRENDS AND PROSPECTS IN BOTANY

16th& 17th FEBRUARY, 2023

SPONSORED BY

Chhatisgarh Council of Science and Technology, Raipur

(C.G.)



A REPORT

SUBMITTED BY



GOVERNMENT NAGARJUNA P.G. COLLEGE OF SCIENCE, RAIPUR, CHHATTISGARH

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16th& 17th of FEBRUARY, 2023

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A REPORT

SUBMITTED BY

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Dr. R. Diwan Professor & Head Govt. NPG College of Science, Raipur (C.G.) and Convener National Seminar

Dr. P.C.Choubey Principal Govt. NPG College of Science, Raipur(C.G.)

NATIONAL SEMINAR ON

CURRENT TRENDS AND PROSPECTS IN BOTANY

16th& 17th FEBRUARY, 2023

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A two day's National Seminar on " **Current Trends and Prospects in Botany**" was organized by Department of Botany, Government Nagarjuna Post Graduate College of Science on $16^{\text{th}} - 17^{\text{th}}$ February, 2023 which was sponsored by Chhattisgarh Council of Science and Technology, Raipur.(C.G.)

Organizing Committee

PATRON

DR. P. C. CHOUBEY Principal

CONVENER

DR. RUPINDER DIWAN Professor. & Head

CO- CONVENER

DR. SANGEETA BAJPAI DR. N.B. SINGH

ORGANIZING SECRETARIES

DR. V. K. KANUNGO DR. SUNEETA PATRA

ORGANIZING COMMITTEE

DR. DIKSHA KHARE DR. KRITIKA JYOTI NAMDEO MR. OM PRAKASH MERAVI MR. JAGMOHAN SAHU MISS. RENUKA SINHA

EXECUTIVE MEMBERS

GULAB CHAND MUKESH KUMAR KURRE SARVESH KAUSHIK PATEL GAURAV NAG SHUBHANGI YADU DEVNARAYAN PATEL HEMSHIKHA SAHU

ORGANIZING COMMITTEE			
Registration Committee			
Dr. Sangeeta Bajpai	Ku. Tapsya Kaul		
Dr. Kritika Jyoti Namdev	Ku. Monika Sinha		
Shri Dhanushdhari Sahu	Mr. Aman Satyendra Sharma		
Smt. Dhaneshwari Sahu	Ku. Jyoti Adil		
Inaugural and Valedictory Function Committee			
Dr. R. Diwan	Ku. Alka Gendre		
Dr. Sangeeta Bajpai	Ku Gayatri Sahu		
Dr. N.B. Singh	Mr. Avendra Kumar		
Dr.V.K.Kanungo	Ku. Sanjana Sahu		
Dr.Suneeta Patra	Ku. Priyanka Sinha		
	Mr Vishnu Singour		
Transport and Accomodation Committee			
Mr. Om Prakash Meravi	Mr. Gulshan Verma		
Mr. Sarvesh Kaushik Patel	Mr. Shailendra		
Mr. Gaurav Nag	Mr. TejkumarPatre		
Mr. Dev Narayan Patel	Mr. Vishnu Kumar		
Mr. Ayan Khan			
Food and Catering Committee			
Dr. N.B. Singh	Ku. Chandani Sidar		
Dr. Diksha Khare	Ku. Priyanka Singour		
Ku. Renuka Sinha	Ku. Deepika Sahu		
Ku. Jaishri Soni	Mr. Rahul Chelak		
Ku. Neha Xalxo	Ku. Chandrakanta Sahu		
Ku. Anshu Verma	Ku. Garima		
Ku. Ayushi Sahu	Mr. Vaibhav Kumar Bhagat		
Ku. Jyoti Sonkar			

T.A. & D.A. Payment Committee				
Dr.V.K.Kanungo				
Mr. Jagmohan Sahu				
Mr. Sarvesh Kaushik Patel				
Technical Session Management Committee				
Dr.Suneeta Patra	Ku. Shubhangi Yadu			
Miss. Renuka Sinha	Mr. Naveen Kumar			
Mr. Jagmohan Sahu	Mr. Gulshan			
Mr. Sumeet Gendre	Mr. Khilesh Verma			
Mr. GurucharanSidar	Ku. Khileshwari Sahu			
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Dr. Kritika Jyoti Namdev	Mr. Bhagywan Sonkar			
Mr. Gaurav Nag	Mr. UjjawalSuryavanshi			
Mr. Dev Narayan Patel	Ku. Suman Lata Tirkey			
Souvenir & Certificate Publication Committee				
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Dr. N.B. Singh	Ku. Shubhangi Yadu			
Dr. Sangeeta Bajpai	Ku. Tapsya Kaul			
Dr.V.K.Kanungo	Ku. Lekhika Patel			
Dr.Suneeta Patra	Ku. Hempushpa Gopal			
	Ku. Nikita Kujur			
Certificate Writing & Distribution Committee				
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Ku. Lekhika Patel	Ku. Nikita Kujur			
Mr. Bhagywan Sonkar				
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Mr. Om Prakash Meravi	Ku. Roshani Sandilya			
Mr. Khilesh Verma	Ku. Rajeshwari Nag			
Mr. Rahul Chelak				
Report, Media and	d Press Committee			
Dr. R. Diwan	Mr. Gaurav Nag			
Dr. Kritika Jyoti Namdev	Ku. Pooja Sahu			
Mr. Om Prakash Meravi	Ku. Seema Jumde			
Mr. Sarvesh Kaushik Patel	Ku. Poonam Verma			
Electricity, Sound. & Projector Arran	gement in e-Classroom Committee			
Mr. Sarvesh Kaushik Patel	Ku. Hemshikha Sahu			
Mr. Gaurav Nag	Ku. Sneha Tirkey			
Ku. Shubhangi Yadu	Ku. Poonam Verma			
Mr. Dev Narayan Patel				



DEPARTMENT OF BOTANY GOVERNMENT NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE, RAIPUR (C.G.)



Request the pleasure of your company in the Inaugural function of

National Seminar

on

"Current Trends and Prospects in Botany"

At 10:30 am on Thursday, February 16th, 2023

Venue Rajeev Pandey Auditorium Govt. N.P.G. College of Science, Raipur (C.G.)

Dr. K. L. Verma Vice Chancellor Pt. Ravishankar Shukla University, Raipur (C.G.) will be the Chief Guest.

Shri Arun Kumar Pandey, IFS Member Secretary Chhattisgarh State Biodiversity Board, Raipur (C.G.) will be the Special Guest.

Dr. P. C. Choubey Chairman Principal, Govt. N.P.G. College of Science, Raipur (C.G.)

will preside over the function.

Dr. V. K. Kanungo Dr. Suneeta Patra Organizing Secretaries Dr. Sangeeta Bajpai Dr. N. B. Singh Co-Convenors Dr. R. Diwan Professor & Head Convenor Dr. P. C. Choubey Principal Patron

SCIENTIFIC PROGRAMME SCHEDULE

DAY – 1, 16.02.2023 THURSDAY 09:30 -10:30 am

10:30 – 11:30 am 11:30 – 12:15 pm

TECHNICAL SESSION 1

12:15 – 12:45 pm 12:45 – 1:15 pm

TECHNICAL SESSION 2 1:15 - 1:45 pm

1:45 - 2:30 pm **TECHNICAL SESSION 3** 2:30 - 3:00 pm 3:30 - 3:30 pm

TECHNICAL SESSION 4

3:30 – 4:00 pm

4:00 - 5:00 pm

REGISTRATION AND BREAKFAST INAUGURAL FUNCTION KEYNOTE ADDRESS by DR. L. B. CHOUDHARY

Invited Talk - 1 by Dr. Sudhir Pandey Invited Talk - 2 by Dr. S. K. Jadhav Chairpersons Dr. K. K. Sahu Dr. A. K. Shriwastava

Invited Talk - 3 by Dr. D. K. Shrivastava Chairpersons Dr. Preeti Tiwari Dr. R. Pimpalgaonkar LUNCH BREAK

Invited Talk - 4 by Dr. T. Shrinivasu Invited Talk - 5 by Dr. Satish Verulkar Chairpersons Dr. P. K. Saluja Dr. Pragya Kulkarni

ORAL PRESENTATION

(Abstract Serial No. 1-25) Chairpersons Dr. Avinash Kumar Sharma Dr. Vaibhav Acharya POSTER PRESENTATION Venue: Departmental Corridor Wall Chairpersons Dr. Smriti Chakravarti Dr. Priti Shrivastava

Date :- 16.02.2023

Registration :- Registration for the seminar was facilitated both in online and offline modes. Altogether**155** participants including faculty members, Research scholars and students from Chhattisgarh and other statesgot registered themselves to attend this national seminar.



Inauguration Ceremony -

The National Seminar on "Current Trends and Prospects in Botany" was inaugurated on 16.02.2023 at 10:30 am at Rajeev Pandey Auditorium. The Chief guest of this inaugural session was honorable Dr. Keshri Lal Verma, Kulpati, Pt.Ravi Shankar Shukla University, Raipur (C.G.) and Special guest was Shri Arun Kumar Pandey (IFS), Member Secretary, Chhattisgarh Biodiversity Board, Raipur (C.G.). Dr. M.L. Naik, Ex Professor& Head SOS in life Science, Pt.Ravi Shankar Shukla University, Raipur also shared the dais. The inauguration session was presided over by Dr. P.C.Choubey, Principal Govt. NPG College of Science, Raipur (C.G.) and patron of this seminar. The seminar was inaugurated by lighting the lamp before Maa Saraswati followed by melodious saraswati vandana sung by the post graduate students of Botany. The Chief guest Dr. K.L. Verma emphasized on the need of such seminars. The special guest Shri Arun Kumar Pandey highlighted the need of biodiversity conservation. The Souvenir was also released by the guests on this occasion. The vote of thanks was delivered by Dr. N.B. Singh, co-convener of the seminar. The programme of this inaugural session was conducted by Dr. Suneeta Patra, organizing secretary of this seminar.



















Key Note Address

A Keynote address was delivered by Dr. L.B. Choudhary, Ex - Senior Principal Scientist, Plant Diversity Systematic and Herbarium Division, CSIR - National Botanical Research Institute, Lucknow (U.P.) on "Biodiversity and Sustainable Development An Overview" Dr. Chaudhary elaborated the concept of biodiversity and emphasized on the need of preservation and Conservation of biodiversity. He also insisted to develop sustainable technology to govern the uses of biodiversity following rules and regulations as well as periodic assessment on regional and global scale to safe guard the biodiversity. In his presentation he discussed three levels of biodiversity and biodiversity hot spot regions in India. Biodiversity forms the very basis of human survival and their economic well being. He covered the preservation and conservation of biodiversity by by plaining different *in situ* and *ex situ* techniques.



Technical Session I- In this session two invited talks were delivered. Dr.Sudhir Kumar Pandey from Department of Botany, School of Studies in Life Science, Guru Ghasidas Vishwavidyalaya (Central University), Bilaspur (C.G.) delivered an invited talk on "Current Trends in Phytomonitoring of Airborne Particulate Matter (PM) Associated Metals and Their

Phytoremediation" .The talk covered development in particulate matter phytomonitoring techniques and related hazardous metals in areas with high levels of pollution, Dr. Pandey also discussed the current state and future potential of size fractional phytomonitoring of airborne particulate matter and particulate matter bound metals.

In this technicals session second invited talk was delivered by Dr.S.K.Jadhav, Professor, SOS in Biotechnology, Pt. Ravishankar Shukla University ,Raipur on "AtmosphericFungal Diversity of Chhattisgarh", In this study Dr. Jadhav isolated and identified more than 215 atmospheric fungal types with dominance of Deuteromycotina. Such studies benefit the environment and ecosystem by providing the data needed to understand the fungal diversity is different seasons in chhattisgarh.

This technical session was chaired by Dr. K.K.Sahu, Professor & Head, SOS in Biotechnology, Pt. Ravishankar Shukla University ,Raipur (C.G.) and Dr. A.K. Shrivastava, Assistant Proffesor from Govt.College, Utai (C.G.)





Technical Session II -

In technical session II an invited talk was delivered by Dr.D.K.Shrivastava, Assistant Professor of Botany, Govt.ERRPG Science College, Bilaspur on "Diversity of Cyanobacteria as potential options for Environment Sustainability". He discussed about the role of cyanobacteria as alternative source of energy, as nitrogen fixer, as healthy food source, as biofertiliser and as an industrial strain. He elaborated on cyanobacterial diversity in Chhattisgarh.

This session was chaired by Dr. Priti Tiwari, Principal, Govt.College,Birgaon and Dr. Rekha Pimpalgaonkar Ex Professor & Head of Botany, Govt NPG College of Science, Raipur (C.G.)





Technical Session III

Dr.T. Shrinivasu, Ex.Professor & Head, Department of Botany, RTM University, Nagpur (Maharashtra) in Technical session III delivered his lecture on "Electronic Herbarium. A novel Technology for Digital Database Preparation of Angiosperm plants of Maharashtra . He discussed of electronic herbarium as the need of an hour to enhance sharing, distribution and transmission of knowledge for sustainable utilization and cultivation of angiosperm plants for future prosperity. It also helps to manage and conserve the knowledge of plants as well as on teaching and learning research and development.

In this session second invited lecture was delivered by Dr.Satish B Verulkar on "Micro RNA, Ribo-switches and CRISPR Technologies". He discussed about the functional importance of Micro RNA, Ribo- Switches and clustered Regularly interspaced short palindromic repeats (CRISPR).

The session was chaired by Dr. P.K. Saluja, Assistant Professor of Botany, Govt. DBPG Girls College Raipur and Dr. Pragya Kulkarni Assistant Professor Govt. VYTPG Autonomous College, Durg.





Technical Session IV -

This session comprised of Oral Presentation as well as Poster Presentation.

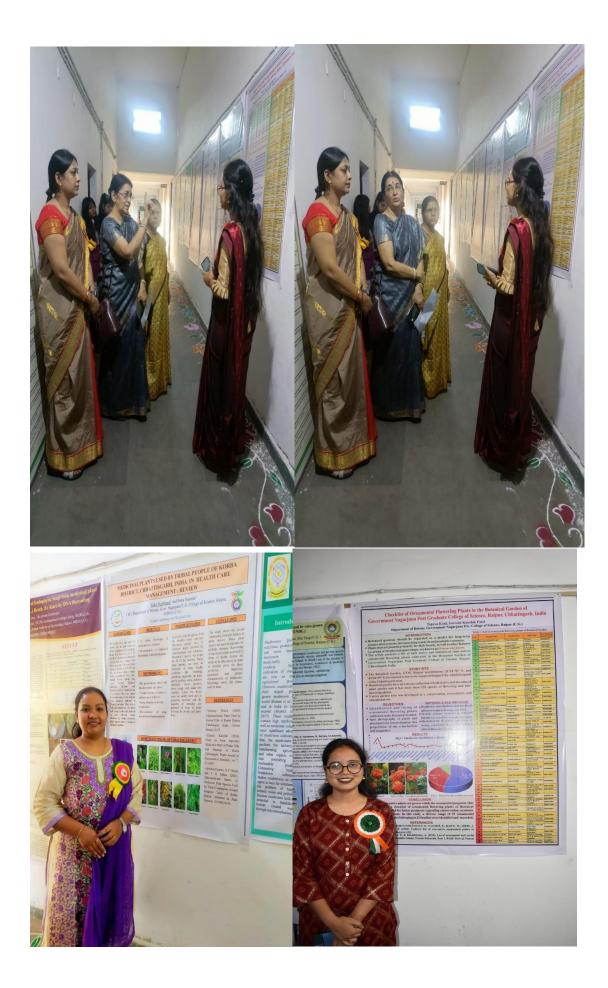
Oral presentation - In this session 08 Research Scholars presented their Research paper through Power Point Presentation. The session was chaired by Dr. Avinash Kumar Sharma, Assistant Professor of Botany, Govt. College, Abhanpur And Dr. Vaibhav Acharya, Assistant Professor of Botany .Govt. DBPG Girls College, Raipur.

Poster Presentation - Poster presentation session was carried out in corridor wall of Botany Department. Altogether 09 participants presented their work in this poster session.

The poster session was chaired by Dr. Smriti Chakravarty Professor& Head Of Botany Department, Govt. J.Y. Chhattisgarh College, Raipur and Dr. Priti Shrivastawa, Head of Botany Department, Govt. Radha Bai Naveen Kanya Mahavidyalaya, Raipur (C.G.)









DAY – 2, 17.02.2023 FRIDAY

09:30 -10:30 am **TECHNICAL SESSION 5** 10:30 – 11:30 am

TECHNICAL SESSION 6 11:30 – 12:15 pm

TECHNICAL SESSION 7 12:15 – 1:00 pm

TECHNICAL SESSION 8 1:00 - 1:45 pm

1:45 - 2:30 pm **TECHNICAL SESSION 9** 2:30 - 3:00 pm

TECHNICAL SESSION 10 3:00 – 4:00 pm

BREAKFAST

ORAL PRESENTATION (Abstract Serial No. 26-50) Chairpersons Dr. J. N. Verma Dr. S. K. Verma

Invited Talk - 6 by Dr. D. K. Kapgate Chairpersons Dr. Avinash Kumar Sharma Dr. Bhavana Pandey

Invited Talk - 7 by Dr. M. P. Thakur Chairpersons Dr. Arti Guhe Dr. Kavita Sharma

Invited Talk - 8 by Dr. M. L. Naik Chairpersons Dr. Veenapani Dubey Dr. R. Pimpalgaonkar LUNCH BREAK

Invited Talk - 9 by Dr. Veenapani Dubey **Chairpersons** Dr. Vaibhav Acharya Dr. Shriram Kunjam

ORAL PRESENTATION (Abstract Serial No. 51-68) Chairpersons Dr. Pratiksha Pandey Dr. Govardhan Thakur VALEDICTORY FUNCTION

4:00 - 5:00 pm

Technical Session V -

The fifth technical session began on 17.02.2023 with oral presentation. Seven participants presented their research work through power point presentation. The session was chaired by Dr.J.N. Verma, Professor& Head of Botany, Govt. DBPG Girls college, Raipur and Dr. S.K.Verma Assistant Professor Department of Botany, Govt J .Y. Chattisgarh College, Raipur (C.G.)





Technical Sessions VI -

In this technical session DR.D.K. Kapgate, former Head, Botany Department J.M. Patel College, Bhandara (Maharashtra) delivered on invited lecture on "Palaeovegetation and Environmental analysis of Deccan Intertrappean beds of central India and the nature and types of flora and fauna in this belt". The radiography of the fossil evidences were also displayed by him which were highly appreciated by the audience.

This session was chaired by Dr.Avinash Kumar Sharma, Assistant Professor of Botany, Govt. K.H. College, Abhanpur and Dr. Bhawna Pandey, Head of Biotechnology Department, Bhilai Mahila Mahavidyalaya, Bhilai (C.G.)





Technical Session VII -

Dr. M.P. Thakur, Dean, RSV College of Agriculture and Research Station, Indira Gandhi Krishi Vishwavidalaya, Bemetara (C.G.) delivered an invited talk in technical session - VII, on "Current Status of Mushroom Diversity, Conservation and Exploration for Human Consumption", Dr. Thakur discussed the biochemical and physiological aspects of Mushroom, their biological active compounds for exploration of herbal medicines, He insisted on the need to sensitize, motivate and convince the youth to take up mushroom cultivation to a large scale so that they may become job providers rather than job seekers.

This session was chaired by Dr.Arti Guhe, Professor& Head, Department of Plant Physiology, IGKV, Raipur and Dr. Kavita Sharma, Head Department of Botany, Govt. Arts, Science & Commerce College, Devendra Nagar, Raipur (C.G.).





Technical SessionVIII -

In the eighth session DR. M.L.Naik, Ex. Professor& Head, SOS in Life Sciences, Pt.Ravi Shankar Shukla University, Raipur (C.G.) on "Current Trends and Prospects in Botany" Dr. Naik pointed out that in Botany most of the studies are focussed on molecular to sub molecular level but there are many studies which are required to be carried out at macrolevel. He emphasized on Carbon Sequestration and ecosystem services. This session was chaired by Dr. Veenapani Dubey, Ex . Professor& Head, CMD College Bilaspur (C.G.) and Dr. Rekha Pimpalgaonkar, Ex. Professor & Head, of Govt. NPG College of Science, Raipur(C.G.)





Technical Session IX -

In this technical session an invited talk was delivered by Dr. Veenapani Dubey Ex. Professor& Head, Department of Botany, CMD College Bilaspur (C.G.) on "Weed Management in Rice. A need for Sustainable food Security in Chhattisgarh, India" . She emphasized on the challenges to sustain food security by developing production technologies for rain fed areas as it plays an important role in meeting the demand of food in future. Her presentation was focussed on weeds as serious impediments to crop growth and productivity, The session was chaired by Dr. Vaibhav Acharya ,Assistant Professor Of Botany, Govt VYT PG Autonomous College, Durg (C.G.).





Technical Session X-

This was a session of oral presentation .07 participants presented their research paper through power point presentation . The session was chaired by Dr. Pratiksha Pandey, Head Department of Botany, Bhilai Mahila Mahavidyalaya and Dr. Govardhan Thakur, Assistant Professor ofBotany, Govt VYTPG Autonomous College, Durg (C.G.)







DEPARTMENT OF BOTANY GOVERNMENT NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE, RAIPUR (C.G.) **Jnvitation**

Request the pleasure of your company in the Valedictory function of National Seminar

on

"Current Trends and Prospects in Botany" At 04:00 pm on Friday, February 17th, 2023

Venue Rajeev Pandey Auditorium, Govt. N.P.G. College of Science, Raipur (C.G.)

> Dr. M. L. Naik Ex. Professor & Head, SoS in Life Sciences Pt. Ravishankar Shukla University, Raipur (C.G.) will be the Chief Guest.

Dr. Amit Dubey Scientist 'D' Chhattisgarh Council of Science and Technology, Raipur (C.G.) will be the Special Guest.

Dr. P. C. Choubey Chairman Principal, Govt. N.P.G. College of Science, Raipur (C.G.) will preside over the function.

Dr. V. K. Kanungo Dr. Suneeta Patra Organizing Secretaries Dr. Sangeeta Bajpai Dr. N. B. Singh Co-Convenors

Dr. R. Diwan Convenor

Dr. P. C. Choubey Patron

List Of Oral Presentation

Afreen Anjum Jitendra Yadav Shashi Gupta Manoj Kumar Prajapati Gulab Chand Khushbu Kashyap Pankaj Kumar Tiwari Shubhangi Yadu Devnarayan Patel Drishti Verma Hemshikha Sahu Pallavi Sinha Sarvesh Kaushik Patel Gaurav Nag Shahla Khan H.N. Tandan Nisha Gupta Dr. Mamta Mrs. Rekha Gupta

Winners of Poster Presentation -

1st Position – Dr. Neetu Das 2nd Position –Dr. Mamta 3rdPosition – Ku. HemshikhaSahu Consolation Prize – Ku. Tapsya Kaul

Winners of Oral Presentation -

1st Position –Ku. Drishti Verma Ku. Shubhangi Yadu 2nd Position – Mr. Sarvesh Kaushik Patel 3rd Position – Dr. Shahla Khan Mr. Devnarayan Patel Valedictory Function - The valedictory function of 2 days National Seminar was held on 17th February, 2023. Dr. M.L. Naik, Ex Professor & Head, SOS in Life Sciences, Pt.Ravi Shankar Shukla University was the Chief Guest, Dr. Amit Dubey, Senior Scientist, Chhattisgarh Council Of Science & Technology graced the function as Special Guest. Dr.P.C.Choubey, Principal, Govt NPG College of Science presided over this valedictory session. Dr.P.C. Panda, Ex. Professor of Botany, Govt. VYTPG Autonomous College Durg was also present and shared the dais as Special Guest. Dr. R.Diwan, Convener of the seminar summarized the events of the seminar and acknowledged all those who contributed to the success of the seminar .Few of the participants gave their feedback on the seminar. Dr. M.L. Naik, Chief Guest of this Valedictory session delivered his speech on the sustainable use of the natural resources and prospects for future research in the field of Botany, Dr. M.L. Naik appreciated the organizers for their commendable teamwork. Dr. P.C. Choubey, Principal Govt. NPG College of Science, Raipur also appreciated the efforts and the teamwork of Botany department. Certificates to the winners of Poster and oral Presentations were given to the participants Winners were honoured by receiving Cash prize along with Certificates Additionally Dr. Priti Tiwari, Principal, Govt College, Birgaon gave away the Cash prize to Ku. Drishti Verma who acquired first position in oral presentation. Mementos were presented by the Principal Sir to all the revered Guests. Vote of thanks was given by Dr. Sangeeta Bajpai, coconvener of this seminar.

The 2 days National Seminar ended by reciting the National Anthem.

















Winners of Poster Presentation









Winners of Oral Presentation

















ORGANIZING COMMITTEE



Dr. P.C. Choubey Principal &Patron



Dr.R. Diwan Professor & Head (Convener)



Dr. Sangeeta Bajpai Co-Convener



Dr.Suneeta Patra Organizing Secretary



Mr.Omprakash Meravi Organizing Committee Member



Dr. N.B. Singh Co-Convener



Dr. Diksha Khare Organizing Committee Member



Miss Renuka Sinha Organizing Committee Member



Dr.V. K. Kanungo Organizing Secretary



Dr. Kritika Jyoti Namdeo Organizing Committee Member



Mr. Jagmohan Sahu Organizing Committee Member







विज्ञान महाविद्यालय में राष्टीय संगोष्ठी आज से

रायपुर। शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय के वनस्पति विभाग द्वारा दो दिवसीय राष्ट्रीय संगोष्ठी का आयोजन शहीद राजीव पांडे सभागार में किया जा रहा है। आयोजन का विषय 'करंट ट्रेन्डस एंड प्रॉस्पेक्टस इन बॉटनी' है। संगोष्ठी का उद्घाटन कुलपति पं. रविशंकर शुक्ल

17 को होगा संगोष्ठी | विश्वविद्यालय, रायपुर का समापन देशभर से विशेषज्ञ आ रहे हिस्सा लेते

डॉ. के.एल. वर्मा एवं मेम्बर सेक्रेटरी राज्य जैव विविधता बोर्ड डॉ. अरुण पांडे के मुख्य आतिथ्य में होगा।

संगोष्ठी में मुख्य वक्ता डॉ. एल. बी. चौधरी. एनबीआरआई लखनऊ द्वारा कीनोट व्याख्यान दिया जाएगा। दो दिवसीय संगोष्ठी में राज्य के बाहर से डॉ. कपगटे, पोलियो बॉटनिस्ट महाराष्ट्र डॉ. टी. श्रीनिवासु, आर. टी. एम. विश्वविद्यालय, नागपुर एवं राज्य के विश्वविद्यालयों से डॉ. एस. के. जाधव, पं. रविशंकर विश्वविद्यालय रायपुर, डॉ. सुधीर पांडे, गुरु घासीदास केंद्रीय विश्वविद्यालय, बिलासपुर, डॉ. सतीश वेरुलकर, इंदिरा गांधी कृषि विश्वविद्यालय रायपुर, डॉ. एम. एल. नायक, एक्स डायरेक्टर सिकास्ट, रायपुर एवं वनस्पति शास्त्री डॉ. वीणापाणी दुबे व डॉ. डी. के. श्रीवास्तव, बिलासपुर, रिसोर्स पर्सन के रूप में सम्मिलित होंगे। संगोष्ठी का समापन 17 फरवरी को शाम 4 बजे होगा। इसमें मुख्य अतिथि डॉ. एमएल नायक एवं विशिष्ठ अतिथि डॉ. अमित दुबे वैज्ञानिक सीकास्ट रायपुर होंगे। कार्यक्रम में प्रतिभागियों को प्रमाण पत्र एवं स्मृति चिन्ह भेंट किए जाएंगे।

पत्रिका { PLU रविवि में हुआ आयोजनः करेंट ट्रेंड्स एंड प्रोस्पेक्ट्स इन बॉटनी पर कॉन्फ्रेंस patrika.c वनस्पतियों के संवर्धन के लिए

जागरुकता व नई सोच चाहिए पत्रिका 🎾 🛛 रिपोर्टर

रायपुर • साइंस कॉलेज के बॉटनी डिपार्टमेंट ने करेंट ट्रेंड्स एंड प्रोस्पेक्ट्स इन बॉटनी विषय पर दो दिवसीय हन बाटना विषय पर दा दिवसाय राष्ट्रीय संगोष्ठी आयोजित की। मुख्य अतिथि रविवि के कुलपति केएल वर्मा थे। विशेष अतिथि अरुण पांडे आईएफएस सदस्य सचिव छत्तीसगढ़ स्टेट बॉयोडायवर्सिटी बोर्ड रहे। चीफ गेस्ट वर्मा ने कहा कि इस संगोष्ठी के माध्यम से राज्य की वनस्पतियों के संवर्धन एवं उनके विकास तथा हर्बल वनस्पतियों के उपयोग के लिए जगरुकता फैलाने नई सोच और किनन मिलेगा

कारण तथा। इसकी जरूरत भी है। संगोष्टी में बिलासपुर, एसके जायव प्रोफेसर रविवे, ते के उब्रला-उत्सार राज्यों से अनेक प्रो.डी.के श्रीवारतव विवानमहावियलय स्वर्सलेविज्ञ शासिल हुए। एल.बी. सीचत बिलासपुर, दी श्रीनिष्ठायु पूर्व बेचरी साइरिटर नेयलल बोटीनेकल अरटीएम विभागाध्यम नागपुर, सतीश सिंब इंस्टीट्यूट (एनबीडाराडाई) नेक्लकर (प्रोफेसर एवं विभागाध्यम तबनक ने आयार वक्तय दिया। सुधीर इंदिरा गांधी कृषि विश्वविद्यालय रायपुर कृषार, पांडे गुरु घासीयास विवे हारा पायप विज्ञान के विभिन्न क्षेत्रों जेसे

पादप विविधता, कवक विविधता, पादम आधिवक विज्ञान जैव तकनीकी जैसे विषयों पर सारगर्मित व्याख्यान प्रस्तुत किए। डीके कपगटे (पेलियोबोटेनी), जेएमपटेलकॉलेज मंडरा, एमपी ठाकुर डीन झैंदेरा गांधी कृषि विश्वविद्यालय बेमेतरा एम.एल. नायक पूर्व प्राध्यापक

शाला रविवि, वीणापाणी दुबे पूर्व अध्यक्ष सी.एम. दुबे पीजी कॉलेज बिलासपुर ने मध्य भारत के पूरे वनस्पतियों पर एवं परंपरागत वन औषधियों के उपयोग एवं संरक्षण तथा खरपतवार प्रबंधन प व्याख्यान दिए गए।

आपके शहर में पहली बार नये



शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय में हुआ आयोजन

नवभारत रिपोर्टर । रायपुर।

शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय रायपुर के वनस्पति शास्त्र विभाग द्वारा 16-17 फरवरी 2023 को 'करेंट ट्रेंड्स एंड प्रोस्पेक्ट्स इन बॉटनी' विषय पर दो दिवसीय राष्ट्रीय संगोष्ठी का आयौजन किया गया।

संगोष्ठी के प्रथम दिन मुख्य अतिथि के रूप में कुलपति, पंडित रविशंकर शुक्ल विश्वविद्यालय रायपुर डॉ. के. एल. वर्मा एवं विशेष अतिथि आईएफएस, सदस्य सचिव छत्तीसगढ़ स्टेट बायोडायवर्सिटी बोर्ड, रायपुर अरुण पांडे थे। कार्यक्रम की अध्यक्षता महाविद्यालय के प्राचार्य डॉ. पी. सी. चौबे ने की ।

संगोष्ठी में मुख्य अतिथि प्रोफेसर के. एल. वर्मा ने कहा कि इस संगोष्ठी के माध्यम से छत्तीसगढ़ राज्य की वनस्पतियों के संवर्धन एवं उनके विकास तथा हर्वल



वनस्पतियों के उपयोग के लिए जागरूकता फैलाने नवीन विचार एवं दृष्टि मिलेगी। इस अवसर पर स्मारिका का विमोचन भी किया गया। डॉ. पीसी चौबे ने संगोष्ठी के आयोजन की बधाई दी।

पहले दिन सांइटिस्ट नेशनल बोटैनिकल रिसर्च इंस्टिट्यूट, एनबीआरआई, लखनऊ डॉ. एल.बी. चौधरी ने आधार वक्तव्य दिया। गुरु घासीदास विवि, बिलासपुर के डॉ. सुधीर कुमार पांडे, पं रविवि रायपुर के डॉ. एस. के. जाधव, विज्ञान महाविद्यालय सीपत, बिलासपुर के प्रो. डी. के.

श्रीवास्तव, पूर्व आरटीएम विभागाध्यक्ष, नागपुर के डॉ. टी श्रीनिवासु, प्रोफेसर एवं गांधी कृषि इंदिरा विभागाध्यक्ष विश्वविद्यालय रायपुर के डॉ. सत्तीश वेरुलकर द्वारा सारगर्भित व्याख्यान प्रस्तुत किया गया। प्राध्यापकों, शोधार्थियों एवं छात्र छात्राओं ने अपने अनुसंधान कार्यों को मौखिक एवं पोस्टर के माध्यम से प्रस्तुत किया।

संगोष्ठी के दूसरे दिन विषय विशेषज्ञ पेलियोबोटनी, जेएम पटेल कॉलेज भंडारा महाराष्ट्र के डॉ. डीके कपगटे, डीन इंदिरा

गांधी कृषि विश्वविद्यालय बेमेतरा डॉ.एमपी ठाकुर, पूर्व प्राध्यापक एवं विभागाध्यक्ष जैविकीय अध्ययनशाला पंडित रविशंकर शुक्ला रायपुर डॉ. एम. एल. नायक, पूर्व अध्यक्ष, सीएम दुबे पीजी कॉलेज बिलासपुर वीणापाणी दुबे द्वारा व्याख्यान दिए गए।

संगोष्ठी के समापन पर अतिथि डॉ. एम. एल, नायक, वैज्ञानिक छत्तीसगढ विज्ञान एवं प्रौद्योगिकी परिषद डॉ. अमित दुबे एवं प्राचार्य डॉ. पी. सी. चौबे थे। संगोष्ठी को सफल बनाने में विभागाध्यक्ष वनस्पति शास्त्र डॉ. रुपिन्दर दीवान, डॉ. विमलकुमार कानूनगो, डॉ. एन. बी. सिंह, डॉ. संगीता बाजपेई, डॉ. सुनीता पात्रा, डॉ. दीक्षा खरे, डॉ. कृतिका नामदेव, ओमप्रकाश मेंरावी, रेणुका सिन्हा, जगमोहन साह, शोधार्थी सर्वेश कौशिक पटेल, गौरव नाग, शभागी, हेमशिखा और देवनारायण के साथ एमएससी वनस्पति शास्त्र विभाग के छात्र -छात्राओं का विशेष योगदान रहा।

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Seminar on Botany held

RAIPUR, Feb 18

A NATIONAL seminar on 'Current trends and prospects in Botany' was organised by Department of Botany, Government Nagarjuna PG (Autonomous) College of Science, Raipur. Convener of the seminar was Dr R Diwan, organising secretaries Dr V K Kanungo and Dr Suneeta Patra, co-conveners Dr Sangeeta Bajpai and Dr N B Singh.

Dajpai and Dr N B Singh. Dr K L Verma, Vice-Chancellor, Pt Ravishankar Shukla University, Raipur was the Chief guest. Arun Pandey (IFS) was the Special guest and principal Dr P C Choubey was the chairman of the inaugural function.

ral function . Asouvenir was also released on this occasion The keynote address was given by Dr L B Choudhary from NBRI Lucknow. In the technical sessions Dr Sudhir Pandey, Dr S K Jadhav, Dr D K Shrivastava, Dr T Shrinivasu from Nagpur, Dr SatishVerulkar of IGKV Raipur, Dr DK Kapgate, Paleobotanist from Bhandara, Dr M P Thakur, Dr M L Naik and Dr Veenapani Dubey gave talks.

There were 3 oral presentation and 1 poster presentation sessions for participants. Best three oral and poster

L MONDAY, FEBRUARY 20, 2023

Dignitaries lighting the traditional lamp to inaugurate the seminar.

presentations were given certificates and cash prizes and one consolation prize was given for the poster presentation as well. First prize for oral presentation was sponsored by Dr Preeti Tiwari and rest of the prizes were sponsored by organising department.

In the valedictory function the Chief guest was Dr. M L Naik, special guest Dr Amit Dubey Scientist CGCOST and Chairman was Dr.P.C.Panda.

The feedback of the seminar was given by the participants. Faculty members of department and other departments and from different colleges were present in this occasion.

There were near about 200 participants and delegates from all over India and 70 abstracts were submitted for the souvenir.

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National-level seminar held in Science College



Refer, Feb 18: A national seminar an 'Carrent Trends and Prospects in Botany' was organized by Department of Botany, Gevt. Nagarjuna PG (Autonomous) College of Science, Faipur, on Feb 16 spansored by CGCOST. The patron of this seminar was principal Dr P.C. Chusbey convener Dr R. Dissat, organizing secretaries Dr VK Kanonga and Dr Sangerta Batta, co-comumers Dr Sangerta Baigui and Dr N.B. Singh. Dr KI. Verma Vice Chancellor Pt. R.S.U. Raipur was the chief quest, Aron Pandey (IFS) was the special guest and principal Dr F.C Choubey was the chairman of the inaugural function.

Souvenir was also rolested or this occasion The keynole address was given by Dr. L.B. Choudhary from NBR Lucknew, in the technical sessions of Feb 16-17 the invited taks were given by Dr. Suthir Pandey, Dr. SK Jadhan, Dr. DK Shrivastava Dr. T. Shrinivasu from Nagpur, Dr. Skish Versikar IGKV Raipur, Dr. DK Kipgate Paleobotanist from Bhandara, Dr. MP Thakur, Dr. Mi, Naik and Dr. Veenagani Dubey, There were J otal presortation and J poster presentation sessions for participants. Birst three oral and poster presentations were given cetilicates and cash prizes and one consolation prize was given for the paster presentation as well, First prize for anal persentation was sponsored by Dr Preeti Tiwari and rest of the prizes were sponsored by organizing department. In the waledictory function the chief was Dr ML Naik, special guest Dr Amit Dubry Scientist D CGCOST and Chairman Dr F.C.Panda. The feedback of the seminar was given by the participants. Faculty members of department and after departments and from different cologes were present in this occasion. There were mear about 250 participants and deiegates form all over india and 70 abstracts were submitted for the souveix.

INVITATION

We cordially invite all the faculties, industrialists environmentalists, researchers and students who are engaged In various fields of researches in Botany to the "National Seminar on Current Trends and Prospects in Botany" scheduled to be organized on 16th-17th February, 2023 In Department of Botany, Government Nagarjuna Post Graduate College of Science, Raipur, Chhattisgarh. This National Seminar aims to provide a platform to all researchers to share their ideas for the betterment of mankind. The deliberations in seminar are supposed to upgrade our knowledge and scientific temperament. The presentations of budding scientists may give a way to new innovative research. Organizing Committee welcomes you and looking forward to meet you in the seminar.

NATIONAL ADVISORY COMMITTEE

- 1. Dr. Anupam Sharma, Lucknow 2. Dr. S. Sawant, Jammu 3. Dr. R.C. Mohanty, Bhubaneshwar 4. Dr. S.S. Sandhu, Jabalour
- 5. Dr. Shanti Iyer, Bangalore 6. Dr. Sadhana Chourasia, Chitrakoot 7. Dr. P.K. Mahapatra, Cuttack 8. Dr. S.R. Yadav, Kolhapur 9. Dr. J.A. Tidke, Amaravati
- 10. Dr. Pradeep Shukla, Kanpur 11. Dr. L.M. Tewarl, Nainita

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ABOUT RAIPUR CITY

Raipur is the capital of Chhattisgarh state in India. It is located about Rapur is the capital of Chhattisgaris tatle in India. It is located about 300 meters above mean sea level. City has historical and archaeological importance. City is stuated on Mumbal Kokata rail line 300 kilometers away from Nagour city in east direction. City is well connected by road in Air to all the major cities of india. In February climatic conditions remain very pleasant, Normal ciching and other oufit will suit to the condition.

ABOUT THE COLLEGE

The Government Nagarjuna P.G. College of Science, Raipur is a single faculty Autonomous Science College established in the year 1948, affiliated to Pt Ravishankar Shukia University, Raipur, Both core and applied subjects are taught in the college. College offers Cofe and appried subjects are saught in the coneye. Contract while undergraduate degree in combination with 15 science subjects while post graduate degree in 11 of the science subjects. College is recognized Research Center of Pt Ravishankar Shukia University Raipur, Presently more than 2500 students are enrolled in the UG. and PG classes and 27 students are conducting research in different

ABOUT BOTANY DEPARTMENT

Botany department has been working since the establishment of the college in 1948. Post graduate classes were started in the year 1954 and with that the research activities also started in the department. The department was recognised as a Research Center soon after The department must be provided a second process of the provided process of the provided process of the process

Environmental Biology, Phycology, Pathology, Ethnobota Aerobiology, Limnology Tissue Culture and Phytochemistry etc.

ABOUT THE NATIONAL SEMINAR

The two days national seminar on "Current Trends and Prospects in Botany", will be organized with the following aims and objectives-

- Knowledge of current trends of research in Botany.
 Discover the innovative ideas to incorporate with Botanical researches.
- 3. Identification of potential areas where Botanical researches
- have future prospects
- Finding prospects of plants in all works of life.
 Conservation of Traditional Knowledge of medicinal plants.

PATRON DR. P. C. CHOUBEY

Principal Govt. Nagarjuna P.G. College of Science, Ralpur

CONVENER DR. R. DIWAN (M) 989326 Professor. & Head

CO- CONVENER DR. SANGEETA BAJPAI DR. N.B. SINGH

ORGANIZING SECRETARIES DR. V. K. KANUNGO (M) 9406017514

DR. SUNEETA PATRA (M) 9425519096

ORGANIZING COMMITTEE DR. DIKSHA KHARE DR. KRITIKA JYOTI NAMDEO MR. OM PRAKASH MERAVI MR. JAGMOHAN SAHU MISS. RENUKA SINHA

CONTACTS FOR CORRESPONDENCE MR. JAGMOHAN SAHU (M) 91655 Mail ID : jagmohansahu17@gmail.com MISS. RENUKA SINHA Mail ID : renukasinha6396@gmail.com

- 6. Prospects in drug designing, preparation and administration methods.
- THEMES OF NATIONAL SEMINAR
- 1. Phyto-diversity and Conservation 2. Plant Biotechnology
- 3. Plant Cell Biology
- 4. Plant Developme
- 5. Plant Breeding 6. Plant Physiolog
- 7. Phytochemistry 8. Ethnobotany
- 9. Blofuels
- 10. Mycology
- 11. Phytoremediation
- 12. Ecosystem and sustainable development 13. Environmental impact Assessment
- 14. Green Technology.
- 15. Nanotechnology

CALL FOR ABSTRACTS, POSTERS AND FULL PAPER

Abstract of original research work should be submitted in 500 words written in Times New Roman fort size 12 spacing 1.5 in relation to above mentioned theme. Manuscript of full-length paper should be submitted in Ms word under following headings.

submitted in MS word uncer howevery resurvey. Author's name, Affiliated institutions name, e-mail of the author, Introduction, Materials and Methods, Results and Discussion and References. Detailed paper should consist of abstract of the work. Entre text should be written in Times New Roman, font size heading 14, running material 12 font size with spacing 1.5.

POSTER PRESENTATION

Poster size will be of 1x1.5m consisting headings like Title, introduction, Materials and Methods, Results and Discussion, Conclusion and References.

PUBLICATION OF FULL-LENGTH PAPER

Full length paper will be published in Seminars Proceeding on additional payment of Rs. 1000+. Entire text should be written in Times New Roman, font size heading 14, running material 12 font size with spacing 1.5.

NATIONAL SEMINAR ON CURRENT TRENDS AND PROSPECTS IN BOTANY

16 th - 17 th FEBRUARY, 2023





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CHHATTISGARH COUNCIL OF SCIENCE & TECHNOLOGY RAIPUR. (C.G.)

ORGANIZED BY

DEPARTMENT OF BOTANY GOVERNMENT NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE RAIPUR (C.G.) 492010 e-mail : nsnpgrbot2023@gmail.com

> REGISTRATION LINK https://forms.gle/T2QdbVbNGL8nFxNx9

Category Faculty/Scientists Research Scholars P.G. Students On or before After 10th 10th Feb 2023 Feb. 2023 1500/- 1800/-1000/-1200/-500/-700/-

Registration can be done by on line as well as off line

mode. 1. Account No.

: 10071038197

- 2. Name in favour of : Principal 3. IFSC code : SBIN0002852 4. Name of Bank : State Bank of India, NIT Br. Raipur

REGISTRATION LINK

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IMPORTANT TIME LINE

: Feb.16-17, 2023

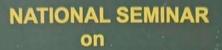
- 1. Date of Seminar
- 2. Last date of Abstract submission : 10.02.2023
- 3. Last date of full paper submission : 15.02.2023

EMINENT SPEAKERS

- 1. Dr. L. B. Choudhary, NBRI, Lucknow
- 2. Dr. M. L. Nalk, Retd. Prof & Head Life Science, Ralpur
- 3. Dr. D. K. Kapgate, Paleobotanist, Bhandara
- 4. Dr. Anjana Sharma, R.D. University, Jabaipur
- 5. Dr. S. K. Jadhav, Pt. R. S. U., Ralpur
- 6. Dr. Sudhir Pandey, Guru Ghasidas University, Bilaspur
- 7. Dr. Devendra Patel, Central University, Bilaspur

REGISTRATION FEE







CURRENT TRENDS AND PROSPECTS IN BOTANY

(February 16-17, 2023)



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Sponsered by CHHATTISGARH COUNCIL OF SCIENCE & TECHNOLOGY RAIPUR (C.G.)

Organised by

DEPARTMENT OF BOTANY

GOVT. NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE RAIPUR 492010 (C.G.)

GOVT. NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE RAIPUR 492010 (C.G.)



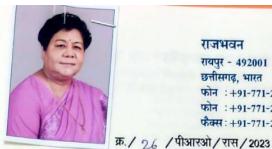
The Government Nagarjuna Post Graduste College of Science, Raipur is a single faculty Autonomous Science College established in the year 1948, affiliated to Pt Ravishankar Shukla University, Raipur. Both core and applied subjects are taught in the college. College offers undergraduate degree in combination with 15 science subjects while post graduate degree in 11 of the science subjects. College is recognized Research Center of Pt Ravishankar Shukla University Raipur.



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CURR	NATIONAL S ENT TRENDS AND 16th & 17th FE	PROSPECTS IN BO	DTANY
SPONSORED BY CHHATTISGARH COUNCIL OF SCIENCE AND TECHNOLOGY, RAIPUR, (C.G).			
GOVT. NAGARJUNA POST GRADUATE COLLEGE OF SCIENCE, RAIPUR (C.G.)			
CERTIFICATE			
This is to certified that Prof./Dr./Mr./Ms			
/Participated/Presented a paper (Oral/Poster)/ entitled			
in the National seminar on "Current Trends and Propects in Botany" held on 16th & 17th of February, 2023			
Organized by Departm	ent of Botany, Govt. Nagarjun	a Post Graduate College of Sc	ience, Raipur (C.G.).
The Organizing Committee extends wishes for future.			
			ALCONTANT -
Dr. V.K. Kanungo	Dr. Sangeeta Bajpai	Dr. R. Diwan	Dr. P.C. Chaubey
Dr. Suneeta Patra Organizing Secretaries	Dr. N.B. Singh Co Convenors	Prfessor & Head Convenor	Principal Patron





राजभवन रायपुर - 492001 छत्तीसगढ़, भारत फोन :+91-771-2331100 फोन :+91-771-2331105 फैक्स : +91-771-2331108

रायपुर, दिनांक 2 फरवरी 2023

-: संदेश :--

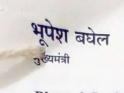
मुझे यह जानकर बड़ी प्रसन्नता हुई कि 16 तथा 17 फरवरी 2023 को शासकीय नागार्जुन स्नाकोत्तर विज्ञान महाविद्यालय रायपुर द्वारा वनस्पति विज्ञान में 'वर्तमान पद्धतियां और सम्भावनाएं' विषय पर राष्ट्रीय सेमिनार का आयोजन किया जा रहा है। इस अवसर पर स्मारिका भी प्रकाशित की जाऐंगी।

वनस्पति विज्ञान विभाग द्वारा आयोजित इस सेमिनार में देशभर से आये वनस्पति शास्त्र के विशेषज्ञ द्वारा महत्वपूर्ण जानकारियां साझा की जायेगी। वनस्पति विज्ञान के विद्यार्थियों को इस क्षेत्र में हो रहे नवाचारों, शोध सहित अनेक तथ्यात्मक जानकारियां प्राप्त होगी।

राष्ट्रीय सेमिनार के आयोजन तथा स्मारिका के प्रकाशन के लिए मेरी हार्दिक शुभकामनाएं।

(सुश्री अनुसुईया उइके)





Bhupesh Baghel CHIEF MINISTER मंत्रालय, महानदी भवन, नवा रायपुर अटल नगर, रायपुर, 492002, छत्तीसगढ़ फोनः +91 (771)2221000,2221001 ई—मेल : cmcg@nic.in

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Mantralaya, Mahanadi Bhawan, Nava Raipur Atal Nagar, Raipur 492002, Chhattisgarh Ph.: +91 (771) 2221000, 2221001 E-mail : cmcg@nic.in Do.No. 603 Date : 6,2,72022

संदेश

मुझे यह जानकर हार्दिक प्रसन्नता हुई कि शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय, रायपुर के वनस्पति शास्त्र विभाग द्वारा 'वनस्पति विज्ञान की नई प्रवृत्तियां तथा संभावनाएं' विषय पर दो दिवसीय राष्ट्रीय संगोष्ठी का आयोजन 16 एवं 17 फरवरी, 2023 को किया जा रहा है तथा इस अवसर पर एक पुस्तिका का प्रकाशन भी किया जा रहा है। विषय विशेषज्ञों के विमर्श का लाभ निश्चय ही विद्यार्थियों तथा महाविद्यालय को मिलेगा।

आयोजन तथा प्रकाशन अपने उद्देश्यों में सफल हो, इसके लिए मेरी हार्दिक शुभकामनाएं।

(भूपेश बघेल)

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उमेश पटेल मंत्री छत्तीसगढ शासन उच्च शिक्षा, कौशल विकास, तकनीकी शिक्षा एवं रोजगार, विज्ञान और प्रौद्योगिकी, खेल एवं युवा कल्याण विभाग



मंत्रालय कक्ष क्रमांक- M1-12 महानदी भवन, अटल नगर, रायपुर 492002 (छत्तीसगढ़) फोन : 0771-2510316, 2221316 नि. : D-1/2, शास. आवासीय परिसर, देवेन्द्र नगर, रायपुर फोन : 0771-2881030 ग्राम व पोस्ट नंदेली, जिला रायगढ़, कार्यालय: 7000477747

क्रमांक 623 207

दिनांक 02 02 2023

MESSAGE

It is great pleasure that Department of Botany, Government Nagarjuna Post Graduate College of Science, Raipur (C.G.) is organizing a National Seminar on "Current Trends and Prospects in Botany" on 16th and 17th of February, 2023.

I think that this seminar offers delegates from various sections of the nation a chance to discuss their ideas and examine effective, safe, and trustworthy research in plant sciences across the nation. Additionally, it provides a forum for botanists from all around the country to engage closely and stay current on emerging problems in the field.

I send my warmest congratulations and best wishes to the Principal, Convenor, and the entire team for the success of this National Seminar and the hope that it will result in new findings that will benefit all humankind.

I wish for the grand success of this seminar.

(Umesh Patel)

विकास उपाध्याय संसदीय सचिव, छत्तीसगढ़ शासन लोक निर्माण, गृह, जेल, धार्मिक न्यास एवं धर्मस्व, पर्यटन सदस्य - छत्तीसगढ़ माध्यमिक शिक्षा मंडल सदस्य - रेल उपभोक्ता सलाहकार समिति



निवास/कार्यालय : सी-1, साइंस कॉलेज परिसर, जी.ई. रोड, रायपुर 492001 (छ.ग.) दूरभाष : 0771-2263600 ईमेल : vikas.nsui@gmail.com

क्रमांक 2766

MESSAGE

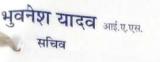
I am delighted to know that Department of Botany,Government Nagarjuna Post Graduate College of Science, Raipur(C.G.), is going to organize a National Seminar on "Current Trends and Prospects in Botany" on 16th & 17th February 2023.

Awareness creation on Plant Sciences and conservation of flora is very important these days. I hope that discussion in the seminar will provide innovative ideas and new vision for the betterment and enrichment of the flora of the Chhattisgarh state.

I wish the seminar a grand success.

(Vikas Upadhyay) संसदीय सचिव लोक निर्माण, गृह, जेल धार्मिक म्यास एवं धर्मस्व, पर्यटन

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छत्तीसगढ़ शासन उच्च शिक्षा विभाग एस-1-13, मंत्रालय, महानदी भवन, नवा रायपुर, अटल नगर-492002 दूरभाष : 0771 - 2510757 (ऑ.)

अर्धशासकीय पत्र क्र. : ...<u>1.२6</u>..... दिनांक :<u>1.3 - D.२ - २.0.4.3</u>... ईमेल : secy.he.cg@gmail.com

MESSAGE

It is a matter of immense pleasure to know that the Department of Botany, Government Nagarjuna Post Graduate College of Science, Raipur (C.G.) is organizing a National Seminar on "Current Trends and Prospects in Botany" to bring many accomplished botanists together on one platform on 16th & 17th February, 2023.

The proposed seminar will generate great enthusiasm among young researchers and would explore wide spectrum of subject matter in detail.

I wish the seminar a grand success and congratulate the organizers for their endeavour.

(Bhuvneih Yadav) Secretary Higher Education Department Government of Chhattisgarh

To,

Principal Govt. Nagarjuna PG College of Science Raipur (C.G.) - 492010

Mrs. Sharda Verma, I.A.S. COMMISSIONER



Directorate of Higher Education, Chhattisgarh

// MESSAGE //

I am very happy to note that the Department of Botany, Government Nagarjuna Post Graduate College of Science, Raipur (C.G.) is organising a two days National Seminar "Current Trends and Prospects in Botany" to bring all botanists together on one platform.

I hope experts invited to deliberate on the theme will go a long way towards strengthening the Plant Science. I am confident that this seminar will provide a platform for the incredible knowledge and enthusiasm of everyone who contributes to the advancement of novel research.

I would like to express my greetings to the organizers of this National Seminar and wish them to conduct similar such successful events in future.

(Smt. ShardaVerma)

Principal, Govt. Nagarjuna Post Graduate College of Science, Raipur (C.G.)

डॉ. केशरी लाल वर्मा कुलपति

Dr. Keshari Lal Verma Vice Chancellor



पं. रविशंकर शुक्ल विश्वविद्यालय, रायपुर (छत्तीसगढ़) भारत Pt. Ravishankar Shukla University Raipur (Chhattisgarh) – 492010 – INDIA Office : +91 771-2262857 Fax : +91 771-2263439 E-mail : vc_raipur@prsu.ac.in Website : www.prsu.ac.in Mobile No. : +91 8527324400

Raipur, February 02, 2023

MESSAGE

It is a matter of immense pleasure that the Department of Botany of Government Nagarjuna Post Graduate Autonomous College of Science, Raipur is organizing a Two Days National Seminar on 'Recent Trends and Prospects in Botany' during 16th and 17th February 2023.

I am confident that a significant number of participants will actively participate in it. By giving them a crucial platform to share their work and ideas as well as a great opportunity for the aspiring researchers and academicians from all over the country to learn from the eminent scientists attending the Seminar. I hope it will turn into a showcase for the upcoming scientists and academicians.

On this occasion, I congratulate the members of the organizing committee and College Administration for their relentless efforts to make this Seminar a grand success. I am also very happy to know that the organizing committee is going to publish a souvenir to mark the occasion.

Wishing very best for the huge success of the Seminar.

(Keshari Lal Verma)

To,

Principal Govt.Nagarjuna P.G. Autonomous College of Science, Raipur (C.G.)

.डॉ. व्रिकास कुमार पाठक अध्यक्ष, जनभागीदारी समिति शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय रायपुर (छ.ग.)



ई मेल :- drvikashpathak@gmail.com मोंबाईल :- 9300291891 पता :- एकता नगर, सेक्टर 01, क्वा. नं. बी/17, गुढ़ियारी, रायपुर (छ.ग.)

रायपुर दिनांक 31 /01 /2023

पत्र क्रमांक 103

MESSAGE

I am delighted to know that the Department of Botany, Government Nagarjuna P. G. College of Science, Raipur (Chhattisgarh) is organizing a National Seminar on "Current Trends and Prospects in Botany" on February 16th and 17th 2023, sponsored by Chhattisgarh Council of Science and Technology, Raipur. I congratulate and appreciate the faculty members and research scholars of the Department for their untiring effort and dedication in organizing the seminar.

Government Nagarjuna P. G. College of Science, Raipur (Chhattisgarh) is a leading institute of the state and known for academic programs and research activities. I hope this seminar will help in expanding the knowledge and experience of researchers and scientists and lead to the betterment of the mankind.

I express my gratitude to everyone who involved in making this conference a great successful.

(Kart

(Dr. Vikas Pathak)

Dr. P. C. CHOUBEY Principal Govt. Nagarjuna Post Graduate College of Science Raipur (C.G.) 492010





MESSAGE

I feel immense pleasure that Botany department of the college is organizing a National Seminar on "Current Trends and Prospects in Botany" on 16th and 17th of February 2023. The college is celebrating its diamond jubilee year of establishment. I am assured that organization of seminar will provide a platform to faculty members, researchers, scientists and students of the country to share their knowledge about the trend of research work proceeding throughout the world and what are its prospects in Chhattisgarh. As the Chhattisgarh state is a herbal state its rich plant resource and diversity novel and innovative research ideas discussed in the seminar will be helpful in preserving and conserving the plant resource of the state. The judicious, meaningful methods and technique of exploitation of plant resource will lead the humanity towards the sustainable development.

I am very much pleased to welcome all the invitees and participants to the oldest college of Science and hope the stage in Raipur will become a memorable time for everyone.

I extend my greetings and best wishes for the seminar that it will achieve its aim of learning and sharing of knowledge.

(Dr. P. C. Choubey) Government Nagarjuna P.G. College of Science Raipur (C.G.) 492010

DR. RUPINDER DIWAN



Head

Department of Botany Govt. N. P. G. College of Science Raipur (C.G.) 492010



MESSAGE

It is indeed a great privilege and moment of immense pleasure for me to welcome you all to the National Seminar on " Current Trends And Prospects In Botany" to be organised on 16TH and 17Th of February, 2023 by the Department of Botany ,Government NPG College of Science Raipur (C.G) s and ponsored by Chhattisgarh Council of Science and Technology The seminar will cover the different aspects of plant science like Plant Diversity, Plant Development, Plant Physiology, Plant Pathology, Taxonomy, Biochemistry, Plant Biotechnology, and all aspects included in the brochure. The main purpose of organizing this seminar is to share and enhance the knowledge of plant science in this fastmoving information era. This seminar will bridge out the platform to bring the researchers and academicians together to achieve the purpose of seminar.

All the participants will get an opportunity to present and exchange novel research ideas and share their expertise by healthy interactions in the technical sessions. This National Seminar will surely help the researchers and academia to upgrade their knowledge and scientific temperament in the varied branches of Botany. I welcome all delegates participating in these two days. National Seminar. The department and the college is trying its level best to make this Seminar a memorable one and facilitate the participants to explore and share new ideas emerging out in the plant science. Thanks to all the participants who are contributing to the success of the seminar.

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DR. R DIWAN

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DR. V.K.KANUNGO DR. SUNITA PATRA Organizing Secretaries





MESSAGE

It is indeed a memorable day and a matter of great pleasure for us that a two-days National seminar on "Current trends and prospects in Botany is being organized by Department of Botany, Govt. N.P.G. College of Science, Raipur, C.G. on 16-17 February 2023. It is the right platform to bring academicians, researchers from different parts of country under one roof to discuss and to achieve the purpose of this seminar. Botany is one of the world's oldest natural sciences. This seminar shall cover all the different aspects of Botany like taxonomy, anatomy, plant pathology, plant breeding, microbiology, plant physiology, plant biochemistry, ecology, cytology, genetics, cytogenetics, molecular biology and plant biotechnology enlisted in the brochure. It will set up a platform for spreading light of the recent technologies in the area of Plant Sciences and enable us to grow by way of learning from knowledge reserves and absorbing expertise from treasury of learned academicians. Everyone will have opportunity to showcase, present and exchange research ideas and share new knowledge and thoughts, by healthy interactions in the technical sessions. This seminar has brought together leading Scientists in Plant Biology from various parts of the country and focused on some of the basic questions and constraints that need to be answered in depth considering the contemporary global thinking and developments.

We welcome all the delegates coming from all over the country for participating in the seminar and exercising painstaking effort in making this conference successful. Through this conference we will put all our effort to drive to expertise in exploration, identification and evaluation of plants, conservation of nature and natural resources and in the protection of endangered plant species. We are trying our best to ensure that your time and stay in the city of Raipur, Chhattisgarh during the seminar be one of the most memorable one and you go back with rich information. We thank each one of you who are contributing to the success of the seminar.

DR. SUNÍTAPATRA

DR. V.K.KANUNGO

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DR. SANGEETA BAJPAI DR. N.B. SINGH CO-CONVENERS







JOURNEY OF THE BOTANY DEPARTMENT

Botany department has been at the forefront of this college since its establishment in the year 1948. After the college shifted to the new building in 1954, the department of Botany with its well-equipped laboratories and learned faculty members continues to service its cause in the teaching and research in botanical sciences. The department has been blessed to get the leadership of 18 learned head of the departments. Their determination to the excellence in academics and devotion to their duties put the department on the path of glory and success.

Pioneer of the department was Prof C M Velekar who laid the foundation of the department followed by Prof P N Gyansagar under whose dynamic leadership, academic research, particularly in the area of embryology, became the hallmark of the department. He also started the tradition of compulsory Botanical Tour for the post graduate students for the collection of plants in the state and out of the state.

In 1956, Post-graduation study was started in the department and in the same year for the first time the Botanical Society was constituted by Prof V B Shukla. During 1958 to 1960 the department received the guidance of Dr N C Verma and Dr N C Pandya. In the year 1961 research in the field of Paleobotany was started and the research papers were published in the reputed journals. Dr R C Agnihotri, a dedicated teacher and committed botanist developed the botanical garden in the premises of the department during 1960 to 1970. He passed on the leadership of the department to a very learned Professor Dr V B Sharma. His vision, and foresighted efforts enabled the department in opening four important optional papers – *plant pathology, palaenology, paleobotany, and grassland ecology.* A wide area around the department was developed as garden where teak plantation was done.

During the 80's the department found the dynamite leadership of Dr B R Verma and Dr R D Das. In the year 1992 the department was headed by Dr K L Tiwari, a very active and dynamic person. It was his full-hearted effort that the department was able to open new vocational courses on *Microbiology* and *Industrial Microbiology*. National level seminar was also organized under his dynamic leadership.

During the period of 1995 to 1999 the department was first time lead by a very kind hearted and courageous lady with full of dynamism and confidence who wrote new pages of development in the history of department Dr Mrs S Joshi.

In the 21st century new era of development began under the leadership of Dr K L Tiwari and Dr S R Ingle, including the new construction in the department, rebuilding of greenhouse, naming of the plants in the botanical gardens, opening of new vocational courses on *Biotechnology*.

Dr Mrs Preeti Tiwari became the head in the year 2012. A national seminar was organized and the department saw a new chapter of growth. Department was privileged to get the leadership of Dr Mrs Rekha Pimpalgaonkar from 2017 to 2020. Under her leadership the department organized National seminars and workshops, further development of botanical gardens, and new optional paper on *Limnology* was launched. Presently, the illustrious leadership of the department is vested in Dr Mrs Rupinder Diwan since 2021.

Since the inception of the department the faculty members contributed to high end research work publishing in the reputed journals more than 400 research papers and 50 scholars received their Ph D degree from the department and brought glory to the department. Botany department had a good number of research guides like Dr. R C Agnihotri, Dr. V B Sharma, Dr. R D Das, Dr. M L Naik, Dr. K L Tiwari, Dr. Mrs S Joshi, Dr. M L Sonar, Dr. P Tiwari, Dr. R Pimpalgaonkar, Dr. R Diwan, Dr. V K Kanungo and Dr S Patra.

Department also contributed tremendously to the learning of botanical sciences through a great tradition of writing books and book chapters in Hindi and English. Some illustrious authors from the department were Dr R C Agnihotri, Dr V B Sharm, Dr S K Sharma, Dr R D Das, Dr M L Naik, Dr A K Bansal, Dr M L Sonar, Dr S R Ingle, Dr R Diwan, Dr N B Singh and Dr V K Kanungo.

The department has produced some of the great achievers who brought glory and laurels to the department – Dr P C Besen (1968) vice chancellor of Jivaji University Gwalior, Shri Alok Katiyar IFS (1986) and Shri Maske IFS (1992).

The department has been blessed by some of the outstanding teachers of all times –Dr D K Tiwari, Prof H C Gavali, Prof M C Saxsena, Prof L C Singhai, Prof D P Saha, Prof S G Gore, Prof S K Sharma, Prof S R Chaudhary, Prof K C Unni, Prof R K Diwan, Prof P L Vaze, Dr M L Naik, Dr. M L Sonar, Prof J S Kachhwaha, Prof T S Trivedi, Dr A K Bansal, Dr B B More – the department is enriched at all the levels due to their wholehearted devotion. Dr S K Jadhav, Dr. P Shrivastav, Dr. A K Sharma and DR V Kohli have also contributed tremendously towards the growth of the department. Currently Dr Rupinder Diwan, Dr Vimal Kumar Kanungo, Dr Narendra Bahadur Singh, DR Sangeeta Bajpai, Dr Sunita Patra, Dr Diksha Khare, Dr Kritika Namdev, Mr. Om Prakash Maravi, Ms Renuka Sinha and Dr Jagmohan Sahu are serving the department with dedication and devotion to keep the heritage of academic excellence and scholarship alive.

Inspired by the past glory, the department is moving on the path of excellence in the academics and research, this seminar is the result of our commitment to the continuous development of Botanical Sciences and our journey towards continuous excellence.

Meid"

(Dr. N B Singh)

(Dr. Sangeeta Bajpai)



Speed Post

छत्तीसगढ़ विज्ञान एवं प्रौद्योगिकी परिषद विज्ञान भवन, विधान सभा रोड, दलदल सिवनी, रायपुर

Chhattisgarh Council of Science & Technology Vigyan Bhawan. Vidhan Sabha Road, Daldal Seoni, Raipur, (C.G.) 492 001 Tel: 0771 - 2972947 Fax: 0771 - 2972948 E-mail: drtsingh03@gmail.com Web: www.cgcost.nic.in

No...724./CCOST/2022

Raipur, Date: 15/11/2022

То

The Principal Govt. Nagarjuna P. G. College of Sciences, Raipur (C. G)

Sub: - Sanction of grant to organize Seminar on 'Current trends and prospects in Botany'

Ref: - Proposal of Dr. Rupinder Diwan, Professor & Head, Department of Botany, Govt. Nagarjuna P. G College of Science, Raipur, vide letter no. Bot. (1) dated 18.04.2022.

Adverting to above, The Council is delighted to inform your good self that on proposal of Dr. Rupinder Diwan, Professor & Head, Department of Botany, Govt. Nagarjuna P. G. College Science, Raipur for organizing the Seminar on 'Current trends and prospects in Botany' From: 15/11/2022 to 16/11/2022, financial assistance of Rupees thirty five thousand is approved.

Name of the Council along with logo as sponsor / co – sponsor is to be mentioned prominently in all poster / banners / press notes and distribution material as per the policy of the Council.

(Approved by Director General)



(Dr. Tribhuven Singh) Scientist 'E' Raipur, Date: 15/11/2022

Endt. No...../CCOST/2021

Copy for information and necessary action to:

 Dr. Rupinder Diwan, Professor & Head, Department of Botany, Govt. Nagarjuna P. G. College Science, Raipur (C. G)

2. Office copy.

Scientist 'E'



Speed Post

छत्तीसगढ़ विज्ञान एवं प्रौद्योगिकी परिषद विज्ञान भवन, विधान सभा रोड, दलदल सिवनी, रायपुर

Chhattisgarh Council of Science & Technology Vigyan Bhawan. Vidhan Sabha Road, Daldal Seoni, Raipur, (C.G.) 492 001 Tel: 0771 - - 2972947 Fax: 0771 - 2972948 E-mail: drtsingh03@gmail.com Web: www.cgcost.nic.in

No...72.4. /CCOST/2022

Raipur, Date: 15/11/2022

To

The Principal Govt. Nagarjuna P. G. College of Sciences, Raipur (C. G)

Sub: - Sanction of grant to organize Seminar on 'Current trends and prospects in Botany'

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(Approved by Director General)



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(Dr. Tribhuven Singh) Scientist 'E' Raipur, Date: 15/11/2022

Endt. No...../CCOST/2021

Copy for information and necessary action to:

- 1. Dr. Rupinder Diwan, Professor & Head, Department of Botany, Govt. Nagarjuna P. G. College Science, Raipur (C. G)
- 2. Office copy.



कार्यालय प्राचार्य शासकीय नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय रायपुर (छ.ग.)

वेब साइट :- www.gnscr.ac.in

ई मेल :-- principal.npgcsr@gmail.com फोन नं. :-- 0771-2263131

क्रमांक 6007/1101/2023

रायपुर, दिनांक 15/02/2023

--: सूचना :--

महाविद्यालय के समस्त प्राध्यापकों एवं सहायक प्राध्यापकों को सूचित किया जाता है कि वनस्पति शास्त्र विभाग द्वारा राष्ट्रीय सेमीनार का आयोजन दिनांक 16 एवं 17 फरवरी, 2023 को आयोजित है, जिसका उद्घाटन समारोह दिनांक 16 फरवरी 2023 को प्रातः 10:30 बजे होगा, जिसमें आप समी की उपस्थिति अपेक्षित है।

शास. नागार्जुन स्नातकोत्तर विज्ञीन महाविद्यालय, रायपुर (छ.ग.)

पू. कमांक *600\$* / 1101 / 2023 प्रतिलिपि : – 01– संबंधित प्राध्यापक / सहायक प्राध्यापक को सूचनार्थ।

रायपुर, दिनांक 15/02/2023

प्राचार

शास. नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय, रायपुर (छ.ग.)

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ई मेल :-- principal.npgcsr@gmail.com फोन नं. :-- 0771-2263131

क्रमांक 6004 / 1101 / 2023

रायपुर, दिनांक 14/02/2023

--: आदेश :--

महाविद्यालय के वनस्पति शास्त्र विभाग द्वारा राष्ट्रीय सेमीनार का आयोजन दिनांक 16 एवं 17 फरवरी, 2023 को किया जा रहा है। इस कार्यक्रम के आयोजन में सहयोग हेतु निम्नलिखित प्राध्यापक/सहायक प्राध्यापक एवं कर्मचारियों की ड्यूटी लगाई जाती है।

01- ऑडिटोरियम (साथ-सफाई व्यवस्था)

डॉ. दीक्षा खरे Dichare सुश्री रेणुका सिन्हा क्रिम्प्रेस्व श्री विजय ध्रुव श्री मनहरण साहू Mode

02- विद्युत व्यवस्था

03- एल.सी.डी. प्रोजेक्शन एवं माईक व्यवस्था

04- विज्ञप्ति टाईपिंग

05- टी.ए. फार्म परीक्षण

पृ. कमांक 60-05/1101/2023

श्री ओमप्रकाश मेरावी Quul श्री संतोष बिसेन

डॉ. आलोक कुमार लूका श्री जगमोहन साहू

डॉ. कृतिका नामदेव श्री टिकेन्द्र कुमार साहू

श्री ओमप्रकाश मेरावी व्राभ्य श्री कृष्ण कुमार देवांगन

शास. नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय, रायपुर (छ.ग.)

रायपुर, दिनांक 14/02/2023

01- संबंधित प्राध्यापक / सहायक प्राध्यापक एवं कर्मचारियों को पालनार्थ।

Hours Farm

शास. नागार्जुन स्नातकोत्तर विज्ञान महाविद्यालय, रायपुर (छ.ग.)

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