

Criteria II

2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences

Programme Organized by Different departments

Environmental Society - 2013-2014

Guest Lecture

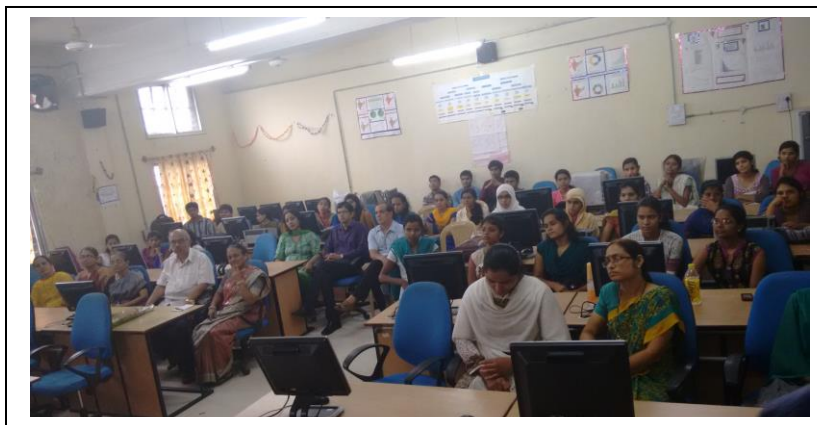
1. The society was inaugurated on 28th September, 2013 at the hands of Mr. Bhangu Sir, Ex-Forest Conservator, Govt. of Maharashtra.
2. Dr. Notey, (Ex-Forest Officer and Wildlife Expert) who delivered expert lecture on Wild life and its protection. He enthusiastically explained the need to protect wild animals and also explained the importance of biodiversity.
3. Also society celebrates “**Wild Life Week**” on 1st October – 7th October every year.



Statistics Society - 2015-16

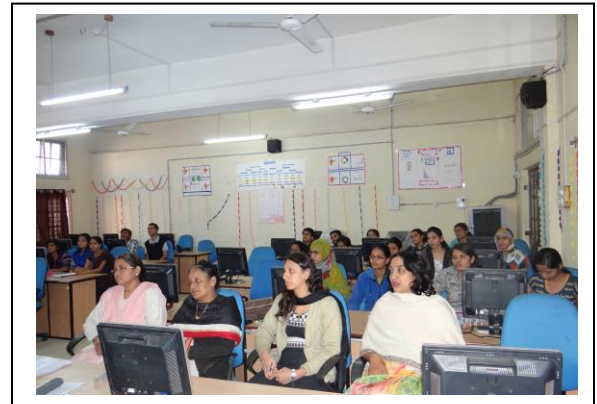
It is a matter of great pride that the Department of Statistics has completed 60 glorious years of its existence in 2015 and has celebrated Diamond Jubilee.

The **Statistics Society** and certificate course in **R - Package** sponsored by U.G.C. was inaugurated at the hands of Mr. J. R. Rao, Assistant Vice President, Planning, Analytics and Regulatory Practices, Credit Union Deposit Guarantee Corporation , Alberta, Canada on 14/08/2015. Mr. J.R. Rao spoke on **Big Data: How it is changing everything**. All students appreciated his informative speech.



3 A guest lecture on **Structural Equation Modeling (SEM)** by Dr. ParagDhumal, Associate Professor, University of Wisconsin Parkside, Kenosha, United States, was organized on 22/01/2016, as a part of Diamond jubilee celebrations.

Dr. ParagDhumal introduced structural Equation Modeling (SEM) to the students by giving various real life examples, its challenges and popularity etc. Dr. Dhumal interacted with the students and gave information about the job scenario and education system for the Students of Statistics in US.



Botanical Society 2015-16



Visit of Prof. Shelena Jetley (USA)



Inauguration of Botanical Society
Chief Guest Prof. Vijay Ghugey and
Hon' Director Dr. R. G. Atram

Workshop on Mind power and Brain work by Manashakti Kendra Lonavala

One Day Workshop on “**Mind power and Brain work by Manashakti Kendra Lonavala** was organised by Dept. of Botany in association with IQAC, Institute of Science, Nagpur on 31st July 2015. An interesting lecture on goal setting in life was delivered by volunteer of Manashakti Kendra. He also threw a light on emotional intelligence. Dr. R. G. Atram chaired the session. Around 200 students along with faculties of various department took advantage of the session.



Work shop on Mind power and Brain work by Manashakti Kendra Lonavala dated 31/07/2015

One day Symposium “Biodiversity of Past”

Department of Botany, Institute of Science, Nagpur organised One day Symposium on “Biodiversity of Past” on 22nd January 2016. Inauguration ceremony was held in Sabhagruh (Room No. 45) of Institute of Science, Nagpur. Dr. G. V. Patil, Former Vice Chancellor, Sant Gadge Baba Amravati University, Amravati was the chief guest on this occasion. Dr. Steven Manchester, Professor and Curator, Florida Museum of Natural History, University of Florida (U. S. A.) delivered the Key-note address. Nearly 50 faculties of various colleges participated in the Symposium. On this occasion, Dr. A. A. Saoji, Former Director, Institute of Science,

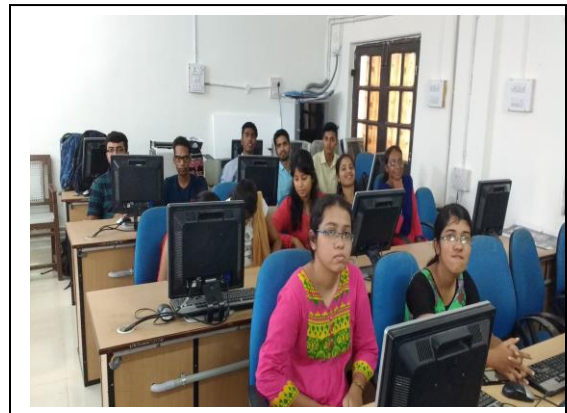
Nagpur, Dr. S. A. Kalkar, Regional Joint Director, Amravati region were also present. During the Symposium Dr. Shyam Shrivastav, Director, Birbal Sahni Memorial Museum, Lucknow spoke on Paleobotanical diversity. Certificates were distributed to all the participants during the valedictory function.



Moments during one day symposium on Biodiversity of past dated

Statistics Society 2016-17

The Statistics Society was inaugurated on 28th September 2016 at the hands of Dr. D V Raje ,Head, Data Analysis Group, MDS Bio- Analytics Pvt. Ltd. He also formally inaugurated the fifth batch of the UGC sponsored Certificate Course in Statistics Package R. He delivered an informative talk on “**How to write a good research paper**” which was highly appreciated by the students. Dr. R. G. Atram, Director, Institute of Science, Nagpur presided over the function.



Guest lecture by Dr. D V Raje ,Head, Data Analysis Group, MDS Bio- Analytics Pvt. Ltd.

Guest lecture by Dr Kanchan Jain, Prof and Head, Punjab University

A Guest lecture by Dr. Kanchan Jain ,Prof and Head ,Punjab University ,Chandigarh on the topic “ **Estimation and modeling in Survival Analysis**” was arranged on 13th February 2017. Dr. Bhanu ,Professor and Head ,Department of Statistics ,Institute of Science gave brief introduction of the Institute and the Department to the speaker as she was visiting the department for the first time. She was felicitated by presenting a book and a memento. Ms Deeksha Korde from MScSemI introduced the speaker to the audience. Dr Sandhya Dhabe proposed vote of thanks.



Guest lecture by Dr Kanchan Jain, Prof and Head, Punjab University

Zoological Society 2016-17

A guest lecture of Dr. Krishna M. Kamble, Professor and Former Head of Department of Radiation and Oncology of Govt. Medical College, Nagpur was organized by the students of M.Sc 2nd year on 18th March 2017.

.The topic was on **“Principle of Radiation Biology& health Consequences of Radiation.”** He shared immensely great knowledge of radiations which has increased our knowledge regarding this topic and given the opportunity for knowing something new.

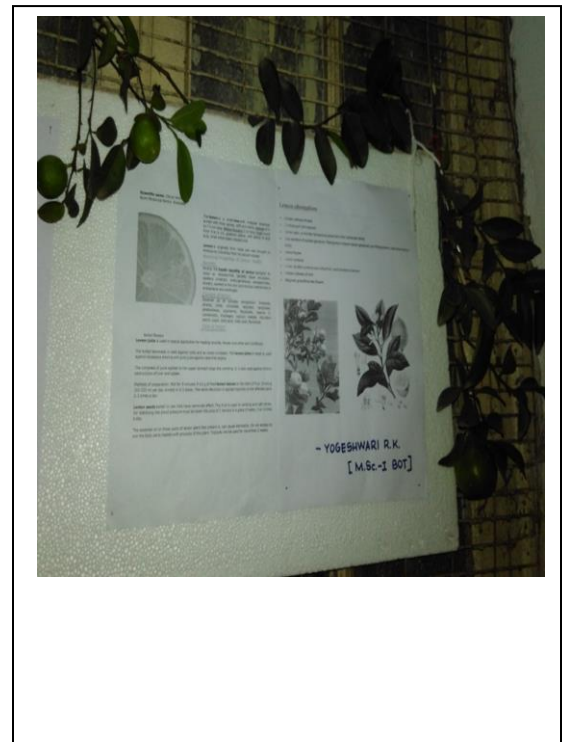
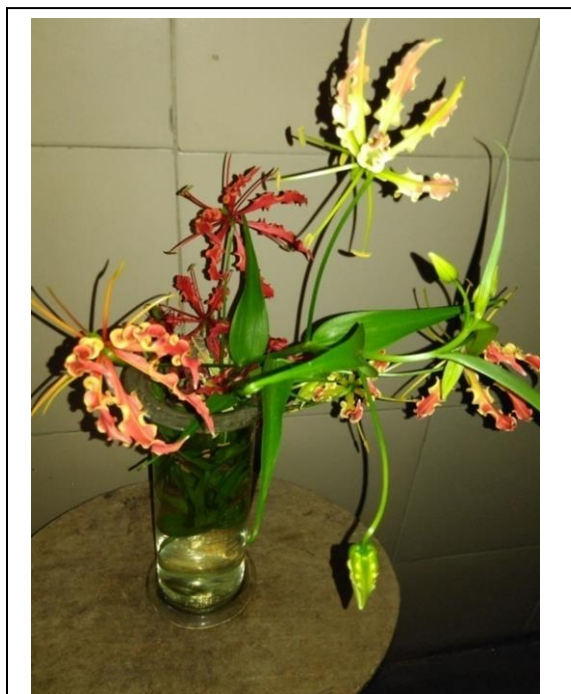


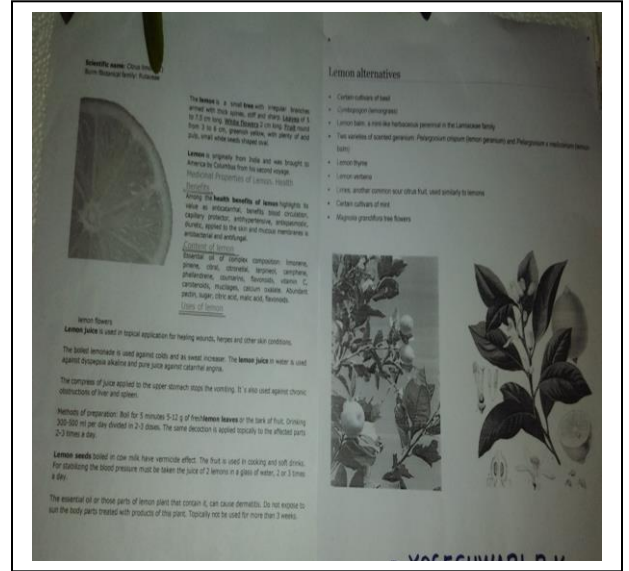
Botanical Society 2016-17

Activities of Botanical Society

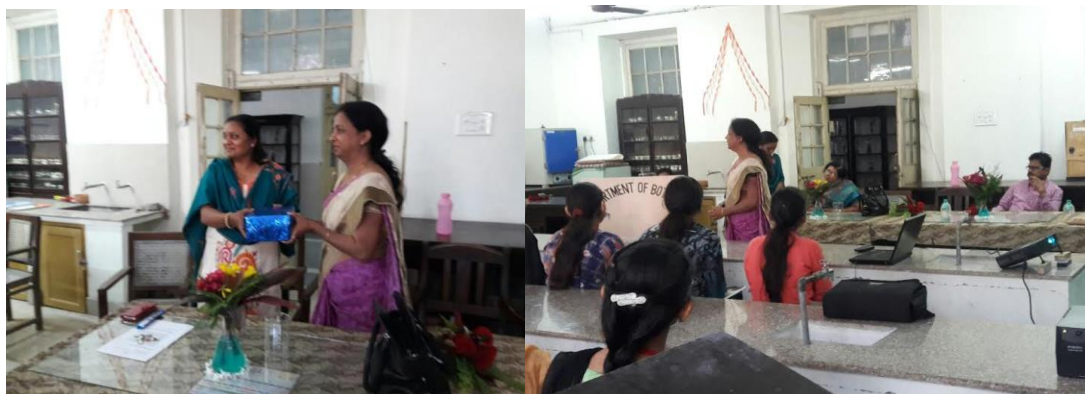
Plant of the week- This novel idea was conducted in the department of Botany, where one student of the M.Sc.I used to bring one medicinal plant and important information was displayed on the notice board which includes morphological characters of the plant, geographical conditions in which the plant grows. Medicinal uses of the plant and part which is used for medicinal purpose. The information was open for all the students of the Institute.

Plant of the Week





On 9.03.2017 Dr. G.V. Patil Ex. V.C. Amravati University visited Botany department. On this occasion Dr.Mrs. S.A. Kalkar introduced the guest to the students of M.Sc. He had an interactive session with the students of M.Sc. I and M.Sc. II.



On 01.02.2017 a guest lecture was arranged on Career Counseling and Personality Developmen. Mrs. Anju Dewase, Info Centre Executive LIC was the guest speaker.

One day “Workshop on Medicinal Plant: Cultivation practices and its uses” at Aura Park, Katalabodi, Amravati road, Nagpur

Students of department of Botany, Institute of Science attended one day workshop on “Medicinal Plants: Cultivation Practices and Uses” at Aura Park, Katalabodi, Ayurvan Foundation, Near Starkey Point, Amravati road, Nagpur. On this occasion Dr. R.G. Atram, Director Institute of Science gave very lucid information on Importance of medicinal plant used by tribal people. Mr. Ghatate and Mr. Sherekar introduced various rare medicinal plants from different agro climatic regions to the students. Students were benefitted with the knowledge provided and they have practically observed different medicinal plants and insect biodiversity.. Certificates were distributed to the students at the hands of Dr. R.G. Atram



Participants

On 31st March 2017 Valedictory Function of Botanical Society was arranged. On this occasion Professor A.A. Saoji Ex. Director, Institute of Science, Nagpur was Chief Guest of the function. Prof. R.A. Satpute presided over the function. Prof. A.A. Saoji guided students and narrated the history of Institute of science, Nagpur. The student of M.Sc. I Anjali Tapile gave a presentation on activities held in department during 2016-17.



TWO DAYS UNIVERSITY GUEST LECTURE SERIES ON "SPECTROSCOPY" (22 & 23 FEB 2017)

INTRODUCTION

Two days University level guest lecture series was held at Institute of Science, Nagpur on 22 & 23rd Feb 2017 organized by department of Chemistry and Department of Physics.

The main aims of this event was

1. To create interaction between PG students of Chemistry and Physics of Institute.
2. To enhance interaction with PG students of other college in the R. T. M. N. University Nagpur.
3. To enhance problem solving ability of student the field of Spectroscopy.
4. To solve queries in spectroscopy.
5. To know importance of spectroscopy in the field of research.
6. To minimize expenses over separate Guest lecture.

To organize this event PG student of Chemistry and Physics from other colleges also registered. It was a honor for our institute that near about above 100 participants from other colleges with 80 participant of our own institute participated in this activity.

INAUGURATION



Inauguration at the hands of Dr. R. G. Atram, Director, Institute of Science, Nagpur



Presidential speech by Dr. R. G. Atram, Director, Institute of Science, Nagpur



Aims and objective narrated by Dr. R. R. Tayade, Prof. In-Charge Dr. R. R. Tayade

DURING PROGRAMS



Lecture by Dr. N. N. Karade, R.T.M.N. University Nagpur



Lecture by Dr. Shoeb Khan, Hislop College Nagpur



Lecture by Dr. MayurKedkar, Hislop College Nagpur



Lecture by Dr. Shrihari Sanap, Institute of Forensic Science Nagpur



Lecture by Dr. Vishal Banewar, GVISH, Amravati



Participants.

Statistics Society 2017-18

The Statistics Society was inaugurated on 24th August 2017 at the hands of Dr. Asha Lalwani, Nagpur. She delivered an informative talk on “**Identification of Sources of Air Pollution Using Statistical Methods**” which was highly appreciated by the students.

Dr. Asha Lalwani, Senior Scientist, NEERI gave a short description about the problem of air pollution from Koradi and Khaperkheda power plants. She also discussed how this could be explained using a mathematical model based on Normal Distribution (Gaussian Dispersion Phenomenon). The importance of R programming language and Machine Learning of Operational Research was also emphasized.



Inauguration of Statistics society at the hands of Dr. Mrs. Asha Lalwani

Chemical Society 2017-18

GUEST LECTURE BY DR. SUNIL VIBHUTE [10.02.2018]

The guest lecture was organized for Undergraduate and Postgraduate Students. Nearly 120 Undergraduate and Postgraduate students were present in the lecture. The objective of this guest lecture was to increase awareness among students in this scientific world and to build basic concepts of Science. The lecture received admiration by the students.



Dr. Sunil Vibhute, Delivering the Lecture on Science Fiction



1. A Talk on Career Opportunities in Chemistry - Scope [28.02.18]:

Keeping in mind about the prospects of M.Sc. I and II students after completion of their PG, a talk was organised on the topic **Scope: Career Opportunities in Chemistry**, by **Dr. Rashmi Batra**, Associate Professor of Chemistry at IOS, Nagpur. She explained different aspects the students can opt after completion of their final year.



Zoological Society 2017-18

Inauguration ceremony of Zoological Society was held on 23rd September, 2017 which was inaugurated by the chief guest and speaker **Shri. Sameer Z. Parvez**, Regional Deputy Commissioner of Fisheries, Nagpur. Dr. P. S. Jakhi, Associate Professor, Department of Botany of Institute of Science presided and graced the function.



Shri. Sameer Parvez, the chief guest delivered his lecture on the topic, “**Fresh water Fish culture aspects and Governmental schemes for Entrepreneurs**” and addressed the students with his kind words and wished the association good luck for all its upcoming endeavors.

Guest lecture on Apiculture

A guest lecture was organized by Zoological Society on 8th February, 2018. The guest speaker was **Dr. B. S. Rahile**, Associate Professor from Shri Shivaji Science College, Pauni, Dist. Bhandara. He delivered a lecture on the topic, “**Employment Opportunities in Honey-bee keeping (Apiculture)**”.



This function was presided over by **Prof. Dr. K. S. Bhanu**, Head of the Department of Statistics. This lecture was attended by the students of M. Sc. and B. Sc. and the staff members.

Guest lectures on Career counseling

Two guest lectures were organized by the Zoological Society on 9th March, 2018. For the first lecture we had invited **Shri. Milind Panchbhai**, Assistant Professor from Govt. Institute of Forensic Science, Nagpur. He delivered a lecture on the topic, “**Career Opportunities in Zoology and Life Sciences**”.



The second lecture was delivered by **Dr. V. S. Zade**, Associate Professor from Zoology Department of this Institute on the topic, “**Career Counseling and Job Opportunities in Life Sciences**”.



Physics Society – 2017-18



Monday, August 28, 2017



Guest lecture on educational opportunities by Dr. Pankaj Koinkar

A Guest Lecture on Educational opportunities was organized by Physics society 2017-18 of Department of Physics, Institute of Science, Nagpur on August 28, 2017. Dr. Pankaj Koinkar, Associate Professor, Department of Optical Sciences, Tokushima University, Japan was the Guest speaker. The function was conducted in room no. 80 of Department at 2:00 PM. The function was presided over by Prof. V. S Sangawar, Head, department of Physics. All teaching staff, members of Physics Society and all the students of Post Graduate Department of Physics attended this function.

He gave seven rules of success for any person:

- Health
- Talent and efforts
- Carefulness, thinking, behavior and respect of time
- Family
- Professors and mentors
- Friends and colleagues
- Luck



Guest lecture on nuclear war with North Korea by dr. Ramesh Singru

Physics society 2017-18 and Thatte Memorial jointly organized guest lecture on the last day of V.N.Thatte memorial lecture series on **“Threat of Nuclear war with North Korea”**. The guest speaker on this occasion was Dr. Ramsesh Singru, retired Professor at IIT Kharagpur. Dr. Ramesh Singru started the lecture by giving detailed information about the geographical location, historical background of North Korea. The reasons behind the division of North Korea and South Korea were also discussed in detail.

He ended the lecture on a cautionary note for India; if we do not take steps now then India will have to get

Environmental Society (2017-18)

The Environmental Science Society of the year 2017-18 was inaugurated on 1st September 2017 by Dr. Rahul V. Ralegaonkar, Associate professor, Department of Civil Engineering, VNIT, Nagpur. The function was presided over by Dr. R.G. Atram, Director, Institute of Science, Nagpur. **Chief Guest Dr. Ralegaonkar delivered an interesting talk on “Role of Environmentalist on Sustainable Resource Management”**. Head of the Environmental Science Department Dr. Mrs. Sushama Narkhede also shared the dais. A large number of invitees, staff and students attended the function.



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“Role of Environmentalist on Sustainable Resource Management” by Dr. Ralegaonkar

1st October to 7th October is celebrated as **“Wildlife week”**. On this occasion a guest lecture of Shri. S. S. Notey was organized by the department. Being a retired forest officer he shared his experience of working in a forest department. A **“Bird Feeder”** was also installed during this week



A special guest lecture was organized on 16th March 2018 to acquaint the students on the “Career Opportunities in field of Environmental Science”. The lecture was delivered by Dr. Smita Bhabra, Director of Global Scientific Incorporation.



Dr. Smita Bhabra, Director of Global Scientific Incorporation “delivered lecture on Career Opportunities in field of Environmental Science”

Botanical Society 2017-18

“Botanical Society” was set up and installed in the Institute of Science, Nagpur on 21/09/2017. The function began with plantation of sapling by chief guest Dr. Arti Shanware (Director, Rajiv Gandhi Biotechnology Centre, R.T.M.N.U. Nagpur). On this occasion Mr. Ambarish Ghatate (Founder, Ayurvan foundation, Nagpur (M.S.) was present as guest of honor. Dr. R.G. Atram (Director, Institute of Science, Nagpur) presided over the function.



Inauguration of Botanical Society by Dr. Aarti Shanware and Hon. Director Dr. R. G. Atram



Signing of MoU Institute of Science, Nagpur and Ayurvan foundation, Nagpur (M.S.)

National Science Day was celebrated with **Career Oriented Lecture Series** for students by Faculty members of the department. The introductory speech was given by Dr. H. R. Pohekar on Rashtriya Vidhnyan. Dr. S. A. Kalkar then gave lecture on “Entrepreneurship in Botany”. It was followed by lecture on “Career opportunities for Botany Students” by Dr. P. S. Jakhi. Prof. N. B. Yemul gave concluding lecture on “Mushroom cultivation technique”. Dr. R.G. Atram (Director, Institute of Science, Nagpur) presided over the function.



Dr.S.A.Kakar and Dr.P.S.Jakhi delivering the lecture



Chief Guest Dr. N. V. Khubalkar delivering lecture on Pot making technique and field demonstration

Mathematical Society - 2017-18

Mathematical Society 2017-18 Inauguration: 24th Aug 2017.



On 22nd Dec 2017, the occasion of 130th Birth Anniversary of India's legendary Mathematician, Srinivasa Ramanujan, the guest lecture on "Fluid Dynamics Applications" by Prof. Dr. Kirtiwant P. Ghadle, Department of Mathematics, Dr. Babasaheb Ambedkar Marathwada University Aurangabad was organized.





GOVT. INSTITUTE OF SCIENCE
R.T. ROAD, CIVIL LINES, NAGPUR

Guest Lecture by Prof.(Dr.) Peter Kuznick

Nuclear arms control is a hugely important issue — especially in a world where tensions between the US and other nuclear powers, Russia, China, North Korea etc, are heating up.

We have to be extremely vigilant and careful when it comes to nuclear because Nuclear changes the whole ballgame.....

Keeping in mind importance of this statement, a guest lecture was organized by IQAC on 11th Jan, 2018, at 2.00pm by **(Dr.) Peter Kuznick**, Professor at Department of History and Director of the Nuclear Studies Institute at American University, Washington DC, on the topic **“Trumps Foreign Policy the Current nuclear Crises”**.



ELECTRONICS SOCIETY 2017-18

National Science Day Program: Electronics society organized following programs on this special day.

Inter-Collegiate Electronics Quiz: Total 11 teams from various colleges in Nagpur University registered for the Quiz event and participated in the elimination round. Out of these teams, 5 teams were selected for main draw consisting of four rounds viz. Bounce-Pounce, Buzzer round, Visual round and Rapid fire. The winners of the competition were

Winner: Dharampeth Science College, Nagpur

1st Runner Up: Institute of Science, Nagpur

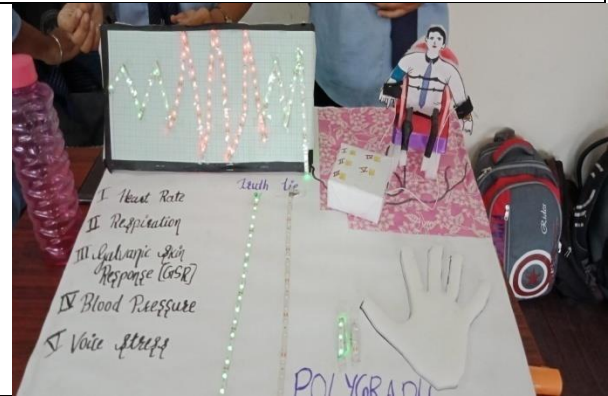
2nd Runner Up: LAD College, Nagpur

The winners were given the certificates and cash prizes.



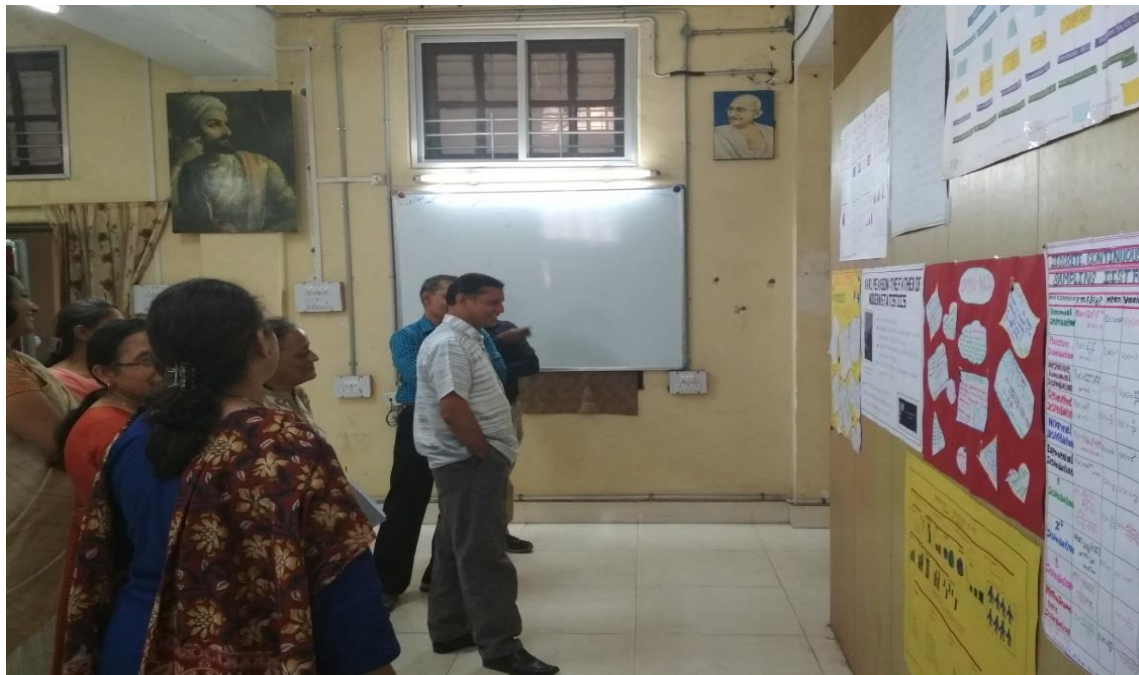
Inter-Collegiate Electronics Model/Kit Exhibition: Total 8 teams from Nagpur participated in this event. Students displayed the kits they fabricated in their laboratories. Participants showed more interest in the various kits like IC regulated P/S, Dual P/S, Variable and fix P/S, Entries counter circuit etc. All the three winning teams were from Institute of Science, Nagpur.

The winners were given the certificates and cash prizes.



STATISTICS SOCIETY 2017-18

Poster competition for the undergraduate students of Statistics was organized in the month of February 2018.



Director Dr R G Atram with staff members watching various charts displayed by the B Sc Statistics students in the Chart competition.

STATFEST 2018

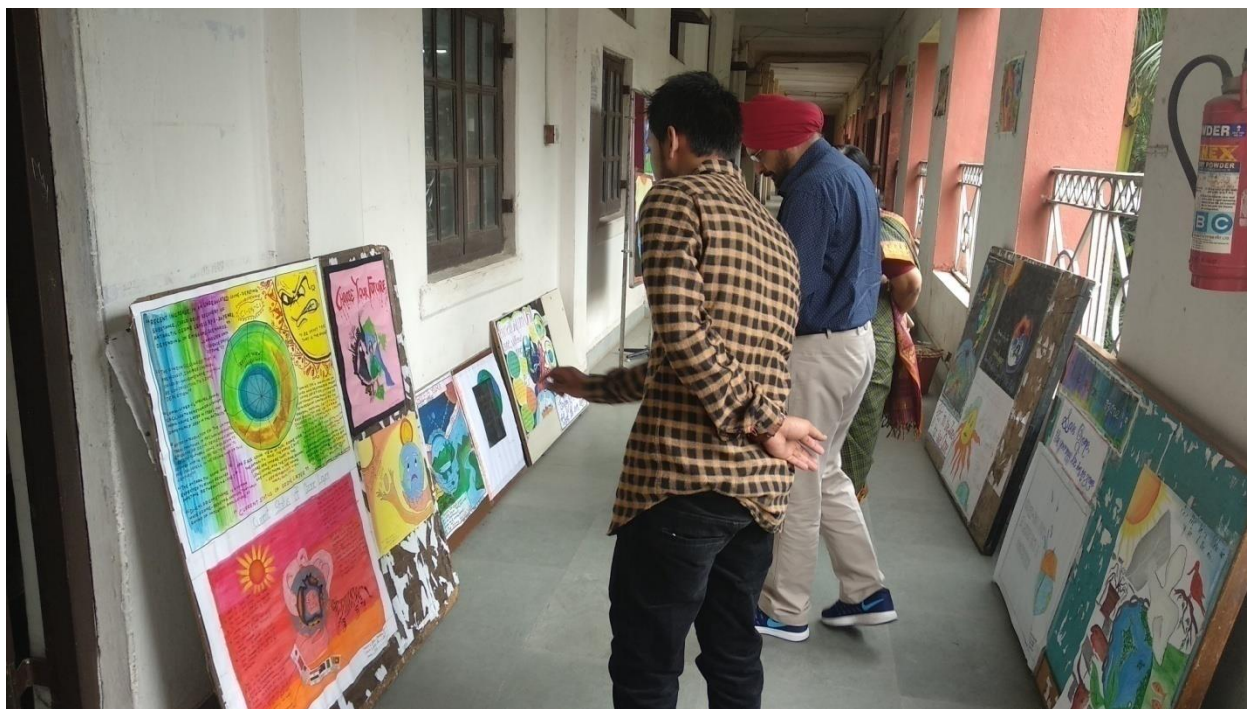
B. Sc. student delivering seminar in seminar competition in STATFEST 2018



STATFEST 2018 - Quiz competition STATWIZ 2018 - Staff members with Quiz Teams

DEPARTMENT OF ENVIRONMENTAL SCIENCE 2017-

A “**Poster and Slogan competition**” for the undergraduate students on the occasion of “**Ozone Day**” was organized by Department of Environmental Science on 16th September 2017. The judging of this competition was done by Shri S. S. Notey ,Retired forest officer,Nagpur. The first, second and third position winners were awarded with a prize and memento.



Judgment of Poster Competition by Mr. Notey



Prize distribution of Poster and Slogan Competition

PHYSICS SOCIETY 2017-18

Poster competition on “Indian Scientist and his/her prominent research and its application” was conducted in B.Sc. lab of Department. Dr. R.R. Patil and Smt. Naik, faculty of Govt. Institute of Forensic Science, Nagpur were the Judges of the Poster Competition. The winners of the Contest were felicitated in the Teachers’ Day program by Chief Guest.

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- (1) **1st Prize: Nihal Mohurle & Sandesh Padole**
(Poster: Vikram Ambalal Sarabai)
- (2) **2nd Prize: Swapnil Hingwe & Vikas Mehare**
(Poster: Dr. C. V. Raman)
- (3) **1st Consolation Prize: Neha Dorle & Shahid Mirza**
(Poster: Meghnad Saha)
- (4) **2nd Consolation Prize: Diksha Korde & Sujata Shedmake**
(Poster: P. C. Mahalanobis)



PHYSICS SOCIETY 2016-17

Physics society organized Science exhibition on the occasion of National Science day



SCI-QUIZ COMPETITION 2016-17

"SCI-QUIZ COMPETITION 2016-17" was conducted as an activity of *CHEMISTRY ASSOCIATION 2016-2017* on 13th Jan 2017 in Room No. 45 of the Institute. Shri Shrikant Borkar, Assistant Professor in Botany and Shri Pravin Sayare, assistant professor in Mathematics and Dr. S. Jigajeni, assistant Professor in Physics were Judges for this activity.

Following students secured the winning position in this quiz competition. They were honored by giving certificates and memento on Science day 28th Feb 2017 at the hand of Dr. Khobragade , Director, Govt. Institute of Forensic Science, Nagpur.

Name of students	Position secured	Class
<i>Sumit Kapgate, Mithilesh Sowerkar & Roshan Bhoyar</i>	<i>First</i>	<i>B.Sc-II</i>
<i>Shashikant Nagrare, Shubham Meshram & Nitanshu Nandeshwar</i>	<i>Second</i>	<i>B.Sc-II</i>
<i>Robart Bhowate, Priyanesh Naidu & Sanket Gaikwad</i>	<i>Third</i>	<i>B.Sc-III</i>

Govt. Institute of Science, Nagpur

Department of Chemistry

Chemistry Association 2016-17

organized

SCI-QUIZ-2016-17

List of Participants



Team No	Full Name Of Participant -1	Full Name Of Participant -2	Full Name Of Participant -3	Class
1	Nehal W. Vaidya	Gulshan R. Kharkate	Dhiraj J. Sarkar	B.Sc. - 3rd Year
	Sachin Dhanpal Chaudhari	Dikshant Shamrao Maske	Chetan Prakash Kale	B.Sc. - 3rd Year
3	Abhijeet Prakash Pardhi	Amardeep Bandu Dhote	Tushar Pradip Shende	B.Sc. - 3rd Year
4	Krishnendu Kanai Roy	Yash Rajesh Ghai	Arpit Anant Kharwade	B.Sc. - 3rd Year
5	Sumedh Bombatkar	Shubham Thakre	Kaushik Biswad	B.Sc. - 2nd Year
6	Robert Bhowate	Priyanesh Naidu	Sanket Gaikwad	B.Sc. - 3rd Year
7	Mayank Tiwari	Chandrakumar Rajkumar Mahure	Tarun Kailash Sahare	B.Sc. - 2nd Year
8	Swapnil Hingwe	Rohan Dehankar	Nehal Sadmake	B.Sc. - 2nd Year
9	Gitesh Choudhari	Sagar Kulsinge	Pranay Yengandhewar	B.Sc. - 2nd Year
10	Vikas Mehare	Suraj Paswan	Rikesh Kumbhare	B.Sc. - 2nd Year
11	Himanshu Vijay Dwivedi	Gaurav Sudhir Dubey	Eknath Gajanan Thawari	B.Sc. - 2nd Year
12	Ekashvi Chahar	Rachna Prakash Kanojiya	Ayesha Tazin	B.Sc. - 3rd Year
13	Vaibhav R. R. Chichmalkar	Kajal Asudani	Frank Barton	B.Sc. - 3rd Year
14	Isha Sunil Kapte	Mrunal Ishwar Pande	Minakshi Gulabrao Rangari	B.Sc. - 3rd Year
15	Pranali Yuvraj Umredkar	Simran Akram Qureshi	Rashmi Durwas Dhole	B.Sc. - 3rd Year
16	Rekha Yashwant Patel	Rita Aravind Mate	Prachi Prakash Rahate	B.Sc. - 3rd Year
17	Payal Dudhe	Pragati Wanjarkar	Payal Borkar	B.Sc. - 3rd Year
18	Kirti Anandsagar Multani	Swarali Vishweshwar Wandhare	Puja Suresh Mundle	B.Sc. - 3rd Year
19	Shashikant Sidharth Nagrare	Shubham Rupchand Meshram	Nitanshu Shishupal Nandeshwar	B.Sc. - 2nd Year
20	Arti Manoj Yadav	Swechcha Rambabu Sharma	Sakshi Sukhchand Rahangdale	B.Sc. - 1st Year
21	Mayuri Tikaram Hatzade	Naazneen Sarfaraj Khan	Payal Keshaoao Burde	B.Sc. - 2nd Year
22	Nandlal Giradkar	Indrapal Neware	Amardip Shebe	B.Sc. - 2nd Year

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GOVT. INSTITUTE OF SCIENCE, NAGPUR
DEPARTMENT OF CHEMISTRY

CHEMISTRY ASSOCIATION 2016-17

ORGANISED
SCI-QUIZ-2016-17

Name of Participants and Group with Class

1. Yogita Ramesh Bhojari - 1st Year (CBZ)
2. Rahul Gayaprasad Yadav - 1st Year (CBZ)
3. Rahul Gajanan Zele - 1st Year (CBZ)

34

marks Obtained

Time - 10 min.

Total marks

- 40

Total Que. - 20.

Qualifying Test

1	If an apple is released from an orbiting spaceship, it will
b	a) fall towards the earth c) move at a higher speed
	b) move along with spaceship at the same speed d) move at a lower speed
2	What happens when water is cooled from 8° C to 0° C?
d	a) Its volume decreases uniformly, becoming minimum at 0° C b) Its density increases uniformly, attaining maximum value at 0° C c) Its volume decreases up to 4° C and then increases d) Its density decreases up to 4° C and then increases
3	During summer, we feel comfortable under a fan because it -
b	a) throws cool air on us b) sets the air in motion, thereby increasing the evaporation of sweat c) produces convection currents d) produces air which carries heat away from the body
4	Light waves are different from sound waves in that
c	a) light waves are electromagnetic but sound waves are not b) light waves can travel through water but sound waves cannot c) light travels with the same speed in all media d) light waves produce interference but sound waves do not
5	The absolute zero of temperature is
b	a) the starting point of any scale of temperature b) the lowest temperature that is theoretically possible c) the temperature at which the vapors of all liquid substances freeze d) the temperature at which all substances exist in the vapor phase
6	Polythene is industrially prepared by the polymerization of
d	a) Methane b) Acetylene c) Ethylene d) Ethane
7	Communicable diseases are those diseases which
d	a) Do not spread by touching each other b) Do not spread by air, dust and food etc. c) Do not spread very fast d) Spread directly or indirectly by touching one another
8	One of the main causes of air pollution in cities is emissions from vehicles like cars and trucks. Cars emit various pollutants which are bad for human health when inhaled, like
b	a) Nitrogen oxides (NO) b) Carbon monoxide (CO)

CHEMICAL SOCIETY QUIZ COMPETITION

ACUMEN QUIZ COMPETITION [10.02.2018]:

'ACUMEN' Quiz Competition was organised on 10th February, 2018 at room no.45. The competition commenced at 11:30 am with a registration of nearly 50 teams. Each team consisted of three members. Dr.Naqui Siddiqui, Assistant Prof. Dr. Rajendra Tayade and Assistant Prof. Prakash Shirsat very exhaustively presented the substance of activity. The Competition had four rounds.

First round was **written test** based elimination round in which five teams were qualified for the next round. Second round was '**Pounce-Bounce**' round in which each team were asked two questions. Third round was the '**Buzzer**' round in which overall ten questions were asked. The last round was the '**Rapid Fire**' round.

In this round, each team was asked five questions within a time limit of 45 seconds. Finally, Dushant Bagde, Nisarg Sukhdeve and Aman Bishnani team of **B. Sc. first** year were declared winner of the competition and were awarded with a cash prize of **Rs.1000**. The first runner-up team was of Aarohi Wandalkar, Anurag Sidam and Shubham Mange of B.Sc. first year and was awarded with a cash prize of **Rs.750**.

The second runner-up teams were of Swapnil Hingwe, Sanket Despande and Rikesh Kumbhare of B.Sc. final year and were awarded with cash prize of **Rs.500**. The event ended with the vote of thanks. The hard work of organising association was completely reflected by the grand success of the programme.



Acumen Quiz Competition: Students Participation



Winners of Acumen Quiz Competition



Team at Second and Third position



Staff members with the Winners of Acumen Quiz Competition

Criteria II
2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
Report of Conferences, Seminars, and Workshops organized

Institute of Science, Nagpur

2013-14

National Conference on Statistics Mathematics and their Applications

Advisory Committee

- Prof. M. N. Deshpande, Nagpur
Former Director & Head, Department of Statistics,
Institute of Science, Nagpur
- Prof. Anil P. Gore
Vice-President, Cytel Statistical Software and Services Pvt. Ltd, Pune
- Prof. Shailaja R. Deshmukh
Prof. & Head, Department of Statistics, University of Pune
- Prof. V. R. Padmawar
Stat-Math Unit, ISI, Bangalore
- Prof. K. C. Deshmukh
Head, PGTD of Mathematics & Dean, Faculty of Science,
RTM Nagpur University, Nagpur
- Prof. R. V. Saraykar
PGTD of Mathematics, RTM Nagpur University, Nagpur
- Shri . P. V. Dabli
Former Director, SIMSREE, Mumbai
- Prof. R. Radha
School of Mathematics & Statistics, University of Hyderabad
- Shri. Tarun Shrivastava
Principal Systems Analyst, NIC & President, AASCON, Nagpur Chapter

Organizing Committee

- Shri R. R. Waikar, Nagpur
- Dr. (Mrs). M. M. Nichkawade, Nagpur
- Dr. (Mrs). N. N. Kasturiwale, Nagpur
- Dr. (Mrs). P. R. Singh, Nagpur
- Dr. U. S. Thool, Nagpur
- Prof. S. P. Kane, Nagpur
- Dr. S. H. Ghate, Nagpur
- Prof. Rajesh Singh, Amravati
- Dr. M. B. Kulkarni, Nashik
- Mrs. C. P. Cholkar, Nagpur
- Dr. (Mrs). V. A. Joglekar, Nagpur
- Shri. R. V. Patil, Nagpur
- Mrs. M. A. Pande, Nagpur
- Dr. P. S. Muktibodh, Nagpur
- Shri Rishi Agrawal, Nagpur
- Dr. Sanjay Sarve, Nagpur
- Dr. (Mrs.) Sujata Janardhan, Nagpur



UGC SPONSORED



NATIONAL CONFERENCE ON STATISTICS, MATHEMATICS AND THEIR APPLICATIONS

(COSMA)

3rd & 4th JANUARY 2014

Co-sponsors



International Indian Statistical Association
&
National Board of Higher Mathematics, Mumbai

Organized by
Department of Statistics
&
Department of Mathematics
Institute of Science
Nagpur - 440001

Dear Colleague,

It is a matter of great pleasure to invite you to celebrate the "International Year of Statistics" by participating in the **NATIONAL CONFERENCE ON STATISTICS, MATHEMATICS AND THEIR APPLICATIONS (COSMA)** to be held on 3rd and 4th **JANUARY 2014** at **Institute of Science, Nagpur**.

Institute of Science

Institute of Science, Nagpur established in 1906 is a premier institute of Central India imparting quality education in eight under graduate, seven post graduate and eight Ph.D. programs.

The Department of Mathematics was established as an undergraduate department initially and upgraded to a post graduate department in 1925. It flourished under the leadership of great mathematicians like Dr. S.C. Dhar, Dr. N.G. Shabde, Dr. S.S. Shrikhande and others. A separate department of Statistics was established in 1955. Under the able guidance of eminent statisticians like Dr. V.P. Godambe, Dr. A.B. Buche, Dr. M.N. Deshpande and others, the department has risen to become one of the best departments that constantly strives to excel both in imparting training and in research. At present both the departments offer UG and PG programs which cater to the needs of nearly three hundred students.

Conference Theme

Mathematics and Statistics have become an integral part of almost every area of life including agriculture, engineering, medicine, management, as well as the physical, chemical, biological and social sciences. The goal of this conference is to provide a common platform to leading academicians, researchers and professionals working in the field of Mathematics and Statistics to share their knowledge about various aspects of these two important branches of Science. The conference will provide an opportunity for technical discussions, reflections and exchange of ideas and perspectives in both theoretical and applied fields of Statistics and Mathematics besides exploring the potential of their applications in new interdisciplinary areas.

The following themes are included but not limited to:

- ◆ Probability Theory
- ◆ Stochastic Modelling
- ◆ Computing and Simulation
- ◆ Operations Research
- ◆ Data Mining & Data Warehousing
- ◆ Statistical Inference
- ◆ Applied Statistics
- ◆ BioStatistics
- ◆ Reliability Theory & Survival Analysis
- ◆ Algebra

- ◆ Analysis
- ◆ Fluid Dynamics
- ◆ Relativity
- ◆ Combinatorics
- ◆ Differential Equations
- ◆ Thermoelasticity
- ◆ Mathematical Modelling

Call for Papers:

Authors are invited to contribute their research papers and send the soft copy of the abstracts by email before the scheduled date. Abstracts of papers should be concise with a maximum limit of 300 words.

Full length papers are to be submitted in Times New Roman, Heading 14 and text font size 12-MS Word format, 1.5 line spacing and A4 size paper setup, with 1.5" margin on all sides with three-four key words.

Important dates

- Last date for receiving abstracts : 30-11-2013
- Intimation of acceptance of abstracts : 10-12-2013
- Full paper submission : 20-12-2013

Registration

Please send the filled registration form with demand draft (DD) drawn in favor of "The Convener, COSMA" payable at Nagpur.

The registration fee may also be directly remitted or transferred online to the following bank account.

- Bank Name : Bank of India
- Branch : R. T. ROAD, Nagpur.
- A/C No. : 870910110003465
- IFSC Code : BKID0008709
- MICR Code : 440013009

If the fee is remitted/transferred online to the above account, a soft/hard copy of the transaction with number should be sent along with the registration form.

Registration Fees

- Faculty / Professionals : ₹ 1000/-; Research Students : ₹ 750/-
- UG /PG Students : ₹ 500/-

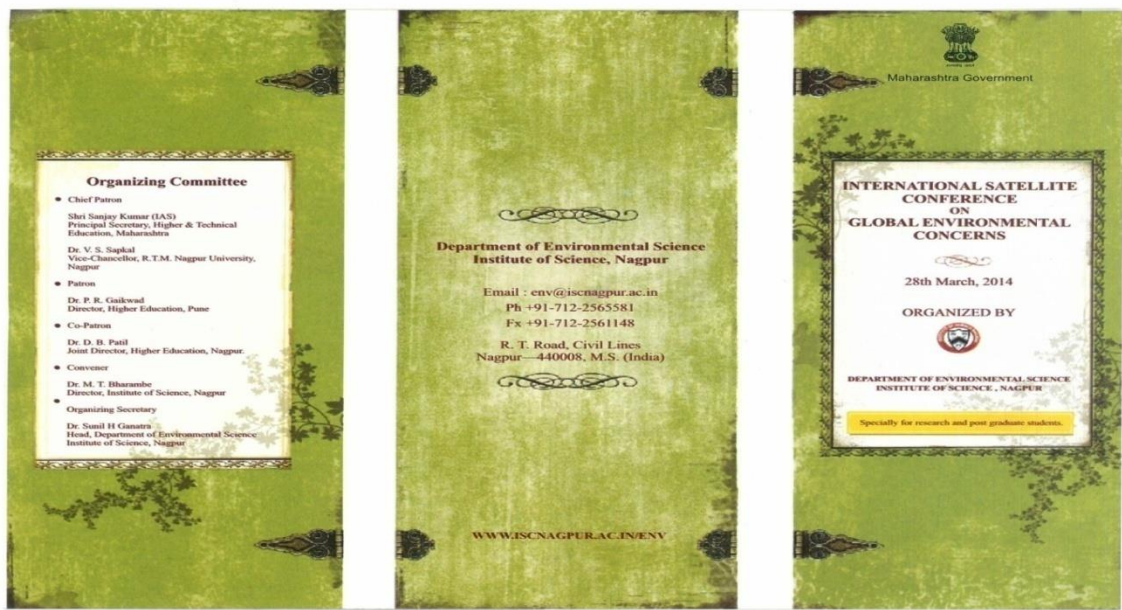
Accommodation

Accommodation will be arranged on request at reasonable rates on payment. Those requiring such facility should contact by 5th December 2013.



National conference on Statistics, Mathematics and their applications (COSMA) 3rd and 4th January 2014

International Satellite conference on Global Environmental concerns, Department of Environmental Science



REGISTRATION FORM	INTERNATIONAL SATELLITE CONFERENCE ON GLOBAL ENVIRONMENTAL CONCERNS	
Name : _____	About Conference	
Address : _____	The drastic change in environment of our globe is a major concern. The public interference in the environmental processes brought major global environmental changes.	
_____	The human activities like mining, water resource management and urbanization led heavy pressure onto natural processes.	
Mobile : _____	These anti-environmental activities led us to have global warming, polluted water, air and food. Finally these all leads to the deterioration of public health.	
Email : _____	Health related science has achieved a lot but new diseases, chronic problems in human health still keeping the public health a serious problems due to environmental pollution.	
Affiliation Institute : _____	There is an urgent need to have thorough discussion and actions towards solving public health related problems which are purely due to environmental changes.	
Department : _____	Programs	
_____	Date : 28th March, 2014	
_____	10.00 am : Inauguration and Key Note Address	
_____	First Session	
_____	11.30 am : Expert Lecture I	
_____	12.15 pm : Expert Lecture II	
_____	12.30. Lunch	
_____	_____	
_____	Second Session	
_____	1.00 pm : Poster Presentation	
_____	2.00 pm : Expert Lecture III / Paper Reading	
_____	2.45 pm : Expert Lecture IV / Paper Reading	
_____	3.30 pm : Tea Break	
_____	3.45 pm : Panel Discussion	
_____	4.15 pm : Valedictory Function.	
_____	4.30 pm : Certificate Distribution	
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Registration Fees : Student : Rs. 250 /-
Teacher Delegate : Rs. 350 /-

INTERNATIONAL SATELLITE CONFERENCE ON GLOBAL ENVIRONMENTAL CONCERNS
At Department of Environmental Science, Institute of Science, Nagpur
On 20th March, 2014 from 10.00 a.m. onwards.
For Registration, please visit : <http://www.iscnagpur.ac.in/env/conference>



Students of B.Sc. Part-I presented the model based on Composting of Solid Waste at International Satellite Conference on “Global Environmental Concerns” March, 2014

**2nd International Congress of Society for Ethno pharmacology
(SFEC 2015) in India**

Sponsorship Brochure



2nd International Congress of Society for Ethnopharmacology

Nagpur, India; February 20- 22, 2015

"Validation of Medicinal Plants and Traditional Medicine – Global Perspectives"

Venue: Chitnavis Convention Centre, Civil Lines, Nagpur



Organizers

Department of Pharmaceutical Sciences

**Rashtrasant Tukadoji Maharaj Nagpur University
Nagpur- 440033, Maharashtra, India
(Celebrating Diamond Jubilee)**

Society for Ethnopharmacology, India

**(Affiliated to International Society for Ethnopharmacology, UK)
23/3 Saktigarh, Jadavpur, Kolkata 700032, India
www.ethnopharmacology.in**

www.sfec2015.com



Student's participation in 2nd International Congress of Society for Ethnopharmacology (SFEC-2015)



Students' participation



The second International Congress of the Society for Ethnopharmacology, India (SFE-India) was organized by Department of Pharmaceutical Sciences, Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur, India in association with Society for Ethnopharmacology (India) during February 20-22, 2015 with the theme “Validation of Medicinal Plants and Traditional Medicine – Global Perspectives” and co-organized by Institute of science, Nagpur. The congress has witnessed mammoth gathering of stalwarts from academia, Industry, Research Institutes, Health Practitioners and Research Scholars with the participation of around 1000 delegates. The congress witnessed participation of resource persons and delegates from around 20 different nations from across the globe. About 65 Lectures from eminent speakers, more than 500 Poster and 150 Oral scientific presentations are good enough to highlight the strength of scientific compartment of this congress. Participation of about 40 traditional healers and exhibition of raw material to finished goods from naturals gave silver lining to this conference. Organizing Secretary, Dr. Prakash Itankar gave credit of the success of congress to team of Department of Pharmaceutical Sciences, R.T.M. Nagpur University, and Society for Ethnopharmacology, India and SFE Chapters all across India, all the associate institutions, industries, sponsors, well wishers, delegates and the dedicated team of our beloved Student Volunteers, including students from many pharmacy and Institute of Science, Nagpur.

One Day Workshop on “Mind power and Brain work”

One Day Workshop on “Mind power and Brain work” by Manashakti Kendra Lonavala organised by Dept. of Botany in association with IQAC, Institute of Science, Nagpur on 31st July 2016. The expert lecture was delivered by volunteer of Manashakti Kendra. He explained about setting goal of life. We should set SMART goal. He also threw a light on emotional intelligence. Dr. R. G. Atram chaired the session. 200 students along with faculties of various departments attended the session and took advantage of the session.



Work shop on Mind power and Brain work by Manashakti Kendra, Lonavala dated 31/07/2015

One day Workshop on “Biodiversity and Habitat of Gorewada”



To develop awareness about forests and sustainable forest management among students **Government Institute of Science, Nagpur has organized one day workshop on " Biodiversity and Habitat of Gorewada "** for Post graduate students of **Department of Zoology** in collaboration with Forest Development Corporation of Maharashtra (FDCM) on 20th Feb. 2016 at Gorewada National Park, Nagpur. Dr.R.G.Atram, Director, Institute of Science, Nagpur, inaugurated the workshop. Dr. Gurudeo Kunghadkar and Mr. Rahul Gudhe spoke on qualitative analysis of phytoplankton of the lake and hydro chemical assessment for nitrate content of lake water, respectively. Mr. V. A. Shende also provided important information on snakes, birds as well as other beasts found in this region. Mr V. A. Shende explained identification of poisonous and non-poisonous snakes, rescuing snakes, first aids after snake bite and diversity of snakes in Vidarbha region.

One day workshop on ARENA software

Arena Simulation Software is the most used Discrete Event Simulation Software in the world. Students who have Arena experience possess a valuable skill sought after by many companies. With Arena training, students are introduced to the principles of simulation which will enhance their problem-solving skills by conducting effective simulation modeling, analysis, and research projects. Simulation concepts are understood quickly and easily through a simple flowchart modeling approach.

Arena is used by many large companies engaged in simulating business processes. Some of these firms include General Motors, UPS, IBM, Nike, Xerox, Lufthansa, Ford Motor Company, and others. Use of statistical software is a must for handling large data sets and for carrying out complex statistical analysis. In view of various advantages and utility of ARENA software , one day workshop on ARENA software was organized by Department of Statistics, Institute of Science ,Nagpur on 9th August 2016. Dr. Parag Dhumal, Associate Professor, University of Wisconsin Parkside, Kenosha, United States, was the resource person . All teachers and M.Sc.II students participated in workshop. The workshop was beneficial to all teachers and students.



Dr Parag Dhumal delivering lecture during ARENA software workshop

**Two Days Workshop on Personality Development and Soft Skills in
association with Me2We Organization**



GOVERNMENT INSTITUTE OF SCIENCE, NAGPUR

You are cordially invited for

Two Days Workshop

on

"Personality Development & Soft Skills"

Organized by

Career counselling & Placement Cell

Dept. of Computer Science

&

Department of Library

in association with

Me2We

23rd Sept-2016 11.50 am

INAUGURATION

at the hands of

Mr.P.M. Ballal

Guest Speakers

Mr. Sachin Burghate

International Motivator

23rd Sept-2016- 12.05 am • Failure; The secret of success

24th Sept-2016 10 am • Softs Skills

President

Hon'ble Dr. R. G. Atram

Director, Govt. Institute of Science, Nagpur

Venue: - Sabhagruha (Rom no. 45) First floor, Govt. Institute of Science, Nagpur.

ORGANIZING COMMITTEE

Dr. Sujata Deo
Organizing Secretary

Dr. Abhay Khamborkar
Co-ordinator

Dr. Ramdas Lihitkar
Convener



Shantanu Gotmare, IAS gracing the dais with his presence



A power packed audience



Appreciation of the entire CCPC committee by the audience.

One day Workshop on Medicinal Plants

Department of Botany, Institute of Science, Nagpur organised one day workshop on “Medicinal Plants: Cultivation Practices and Uses” at Aura Park, Katalabodi, Ayurvan Foundation, Near Starkey Point, Amravati road, Nagpur. On this occasion Dr. R.G. Atram, Director Institute of Science gave valuable information on importance of medicinal plant used by tribal people. Mr. Ghatate and Mr. Shrekar introduced various rare medicinal plants from different agroclimatic regions to the students. Students were benefitted with the knowledge provided and they have practically observed different medicinal plants and insect biodiversity.. Certificates were distributed to the students at the hands of Dr. R.G. Atram.



Students and faculty members

AATMAVISHWAS - TWO DAYS INTER-COLLEGIATE WORKSHOP
(3rd & 4th of February 2017)
ON
PERSONALITY DEVELOPMENT AND CAREER GUIDANCE

Aatmavishwas, a two days inter-collegiate workshop was organized on 3rd and 4th February, 2017 on Personality Development and Career Guidance, by Career Counselling and Placement Cell, Library (Knowledge Resource Centre) and Department of Computer Science. A series of lectures of vibrant speakers was organized over the span of two days. The two days' workshop was inaugurated by Dr. Shashikant Choudhary.

The first day had a series of four inspiring lectures. The first one was given by Mrs. Deepali Ghonge on the topic Vivekanand – Ek Yug Purush. She delivered an outstanding performance and all the students were awestruck by her words.

The next session was a technical one which was conducted by Mr. Anil Totade on Industrial Robotics and Cloud Technology.

The third talk was given by our very own Dr. S. H. Ganatra on the topic of Aatmavishwas. He inspired the students with his highly motivated words.

The fourth and last session of the first day was on Managerial Skills of Shivaji Maharaj by the renowned speaker Dr. Sumant Tekade who took the audience by storm.

The second day had a little surprise as an interactive session was announced. Five teams comprising of six students were made from a lucky draw at the end of first day. An interactive session of Group Discussion was conducted by Vaibhav R. R. Chichmalkar which received a highly positive response.

This interactive session was followed by a career guidance session by Narayana IAS Academy who guided the students for the preparation of Civil Services examination.

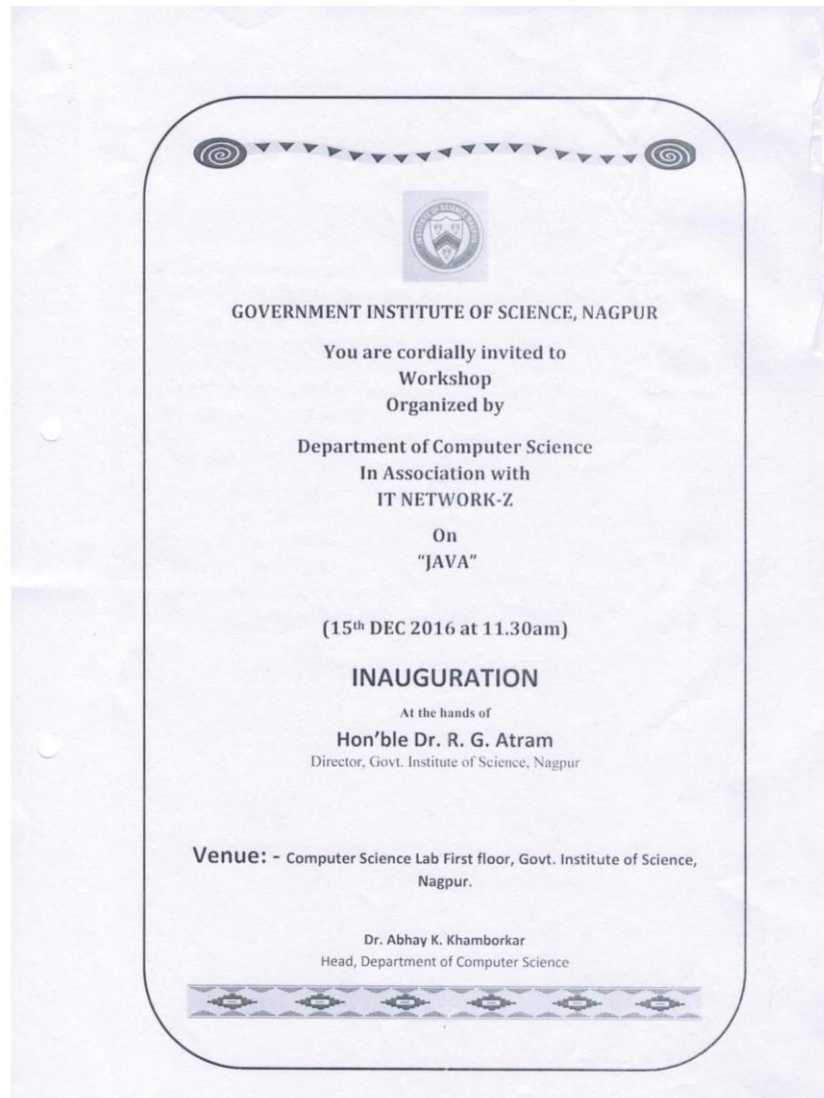
Then came the most interesting session of the workshop where Nisha Bhandarkar and Suraj Ganorkar had a candid talk with our director Dr. R. G. Atram where he revealed his highly inspiring journey from the Bus Stand to the Director's Chamber.

The Two Day workshop ended with a stellar performance by Mr. Sachin Burghate, who spoke on 'Action Talks'. The audience couldn't stop appreciating his inspiring words by showering continuous rounds of applause.





One day Workshop on “Java” was organized by Computer Science Department in collaboration with IT, Network-Z, Nagpur



One day Workshop on “Java” and RED HAT LINUX



GOVERNMENT INSTITUTE OF SCIENCE, NAGPUR

You are cordially invited to
Workshop
Organized by

Department of Computer Science
In Association with
IT NETWORK-Z

On
“REDHAT LINUX”

(20th FEB 2017 at 11.30am)

INAUGURATION

At the hands of

Hon'ble Dr. R. G. Atram
Director, Govt. Institute of Science, Nagpur

Venue: - Computer Science Lab First floor, Govt. Institute of Science,
Nagpur.

Dr. Abhay K. Khamborkar
Head, Department of Computer Science

‘TARUNYABHAN’

THE LIFE SKILL EDUCATION WORKSHOP in Association with

Maharashtra Bhushan Dr. Rani Bang’s ‘SEARCH’

09th, 10th & 11th March 2017

Most of the youngsters today, because of their inquisitiveness and peer influence tend to move towards wrong sources which give them incorrect information about adolescence and sexual behaviors, leading to a disaster in congruent and perhaps lead to disaster in a long run. It is very essential to give them correct and proper information in a scientific and sensitive way so as to prevent them from going towards a wrong track. Bearing in mind this situation of youth ‘SEARCH’ (Society for Education, Action & Research in Community Health) Gadchiroli designed a program ‘TARUNYABHAN’. The content of workshop has been designed by leading gynecologist Maharashtra Bhushan Dr. Rani Bang and facilitator include well known trained person Shri. Dyneshwar Patil, Mrs. Sunanda Khorgade and Shri Rajendra Issasare.

With this relevance Institute of Science decided to organize this three days workshop on **09, 10 & 11 March 2017** in association with Maharashtra Bhushan Dr. Rani Bang’s SEARCH organization. In all total **186 participants** registered their name for taking advantage of this workshop.



INAUGURATION CEREMONEY OF TARUNYABHAN WORKSHOP



FELICITATION OF DEGNITARIES



HON. DR. RANI BANG AND HON. DR. R.G. ATRAM ADDRESSING IN INAUGURATION



STAFF MEMBERS AND STUDENTS ACTIVELY PARTICIPATED IN VARIOUS ACTIVITIES

One day Workshop on “Migration of Birds” in Gorewada Bio-park

Forest Development Corporation of Maharashtra Ltd's (F.D.C.M.) Gorewada Project and Institute of Science, Nagpur had organized a Workshop in Gorewada International Bio-park to study, “Migration of Birds” in Gorewada Bio-park on 19th January 2017. About 45 N. S. S. Volunteers and the Staff Members of Gorewada Project Participated in the workshop. The Participants also Performed Cleanliness Drive at the site. About 20 species of birds were identified and studied by the participants.



Mr. Shrikant . B. Ukey, Herpetologist, gives demonstration of studying a reptile like a Lizard.
Miss. Kalpana Chinchkhede (R.F.O., F.D.C.M. Nagpur) guided and explained how to identify the bird species, their Habitats and to prepare the checklist of identified birds..



Participants at the Workshop Site of Gorewada

Institute of Science, Nagpur

2017-18

Govt. Institute of science

Department Of Botany

Botany society 2017-18

Workshop on Pot making technique

Chief Guest: Dr. N. V. Khubalkar

Date: 08/03/2018

Time: 3:30 p.m. to 4:30 p.m.

Venue: Botanical Garden

All are cordially invited

Prof.N.B.Yemul
(Prof.Incharge)

President and Head, Department of Botany
Govt. Institute of science, Nagpur

**A Report of Workshop on Pot making technique
In the Department of Botany on 08/03/2018**



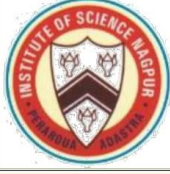
Chief Guest Dr. N. V. Khubalkar delivering lecture on Pot making technique



Field Demonstration



Students preparing pots



GOVERNMENT OF MAHARASHTRA

INSTITUTE OF SCIENCE

R.T. ROAD, CIVIL LINE, NAGPUR-

CARRER COUNCELLING AND PLACEMENT CELL

निर्धार - ध्यास ध्येय प्राप्तीचा- Goal Setting

2 DAYS WORKSHOP (18 & 19 Sept 2017)

ON

PERSONALITY DEVELOPMENT AND CAREER GUIDANCE

ORGANIZED BY

CAREER COUNSELLING AND PLACEMENT CELL

IN ASSOCIATION WITH

DEPARTMENT OF LIBRARY

Inauguration at 11:00am by hands of

Mr. Vijay Phanshikar Dr.Jairam Khobragade Dr. R.G.Atram

18/09/17, Monday

12.0pm	12:40pm	1.40pm	02.30pm	03:00pm
Dr.Rita Agrawal	Dr.Surendra Gole Self analysis and career planning	Dr.Sanjay C. Raghatare Campus Recruitment and you	<i>LUNCH BREAK</i>	Dr.Sumant Tekade Nirdhar, Aamir Khan in Lagan

19/09/17, Tuesday

10:30am	11:30am	1.00pm	1.30pm
Mr. Sachin Burghate Hope	Mr. Sachin Burghate Principles of learning English language	Mr. Shubhasish Chandra Career in Basic Sciences	Valedictory Function Swaima Ahmed and Dr. Sunetra Maharaj/Patil

03.00pm: Aptitude Test and Smart Skill Tech

Co-ordinator -Mr. S.S.Kasarla

Dr. Ramdas Lihitkar CONVENER	Kartik Pathak PRESIDENT CCPC	Shraddha Raikwar SECRETARY CCPC	Dr. Sujata Deo ORGANISING SECRETARY	Dr.S.R.Jigajeni Coordinator
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NIRDHAAR- DHYAAS DHEYA PRAPTICHA- Two days intercollegiate workshop (18th – 19th of September 2017):-



Dr. Aparna Ashtaputre - Sisode

WOMAN'S DEVELOPMENT CELL
GOVT. INSTITUTE OF SCIENCE, NAGPUR
Organizes One Day Workshop On

19th Aug, 2017
Saturday

At 10.30AM
In Hall No. 45



Co-ordinators:
Dr. G.M. Phadnaik
Mrs. Meera Alsi
Dr. Kavita Patil

**Learn How to Amplify Your Effectiveness
with Emotional Intelligence**



WOMEN'S DEVELOPMENT CELL

GOVT. INSTITUTE OF SCIENCE, NAGPUR

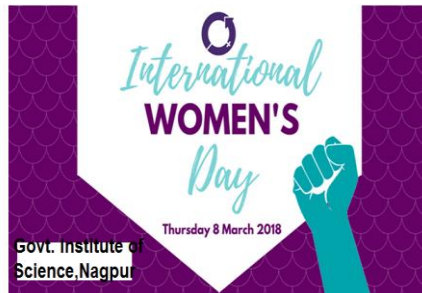
Organizes Guest Lecture

8th March 2018
Thursday

At 1.00 PM
In Hall No. 45

Speaker's
Dr. Zulfi Sheikh
&
Actress Ilakruti

Co-ordinators:
Dr. G.M. Phadnaik
Mrs. Meera Alsi
Dr. Kavita Patil



A successful *Woman*
is one who can build
a firm foundation
with the bricks others
have thrown at *her*.





One day workshop On “Career Guidance”

Institute of science organized a workshop on career guidance on UPSC on 06/10/2017. Mr. Sanjeev V. Chetule, Assistant commissioner (P) (EOL), Indian Revenue Service (Custom, GST & Narcotics), Ministry of Finance, Govt. of India was Chief guest on this occasion. Dr. R. G. Atram, Director of Govt. Institute of Science Nagpur was the president of programme. Mr. Sanjeev V. Chetule shared the importance of competitive Examinations and its helps in social development of students in his address.



Mr. Sanjeev V. Chetule awaked the students about UPSC and other Competitive exams.



Students and Faculties present during the workshop

SEMINAR COMPETITION FOR UG

For this year Chemistry Association of Chemistry Department and Environment Science society jointly organized COLLEGE LEVEL SEMINAR COMPETITION FOR UG STUDENTS ON 17TH FEB 2017, FRIDAY. For this competition students were given three topic for presentation

1. RADIOACTIVE POLLUTION
2. WIRELESS ENERGY TRANSMISSION
3. BIOLOGICAL WEAPONS

In competition every participant was given 6 min for power point presentation and 2 min for discussion or for solving queries of audience. Mr. Pravin Sayare, Mr. Milind Panchbhai and Miss Anagha Patil were the judges for this competition and gave their valuable suggestion regarding their presentations. 26 students from different groups of BSc participated in this event. Dr. Rajendra R. Tayade was the Coordinator and Dr. Sushama Narkhede was the organizing secretary for this UG seminar competition. The students of organizing committee Mr. Akash Khojare, Miss Nirmal Borkar, Mr. Harish Barewar, Mr. Suraj Ganorkar, Mr. Saurabh Urade and Mr. Shubham Akarte took lot of efforts for making this event successful. Miss. Saniya Siddiqui-First, Miss Ayesha Tazin-Second and Miss. Trupti Moon-Third were the winners of this UG seminar Competition.



Winners of seminar competition with judges



Organizing team

SEMINAR COMPETITION FOR PG

Chemistry Association of Chemistry Department organized college level seminar competition for PG students on 18th feb 2017, saturday. Dr. Aruna Kawadkar, Dr. Gayatri Phadnaik and Dr. Uday Thool were the judges for this competition and gave their valuable suggestion regarding the presentations. 18 students from different M.Sc disciplines participated in this event. Dr. Rajendra R. Tayade was the Coordinator for this PG seminar competition. The students of organizing committee Mr. Amit Gadre, Miss Anagha Jiturkar, Mr. Jamil Sheikh, Mr. Akash Khojare, Mr. Kohinoor Turkar and Miss. Dhanashree Padghan took lot of effort for making this event successful. Miss. Shagufa Ahmad-First, Mr. Anurag

Sidam-Second, Miss. Juhi Pandharikar-Third and Divya Gupta-consolation were the winner of this UG seminar Competition.

Felicitation of committee members of CA 2016-17



Felicitation of committee members of CA 2016-17



Felicitation of quiz Competition topper



Felicitation of UG Topper in Seminar Competition



Felicitation of B.Sc-I Topper in Aptitude test



Felicitation of Seminar Competition PG Topper



Inspiring talk of Dr. Dhoke

Presidential speech by Dr. Atram

Participation of students in other colleges

Academic session 2017-18



Dr.R.G.Atram with winners of Institute of Science, Nagpur in the workshop STATISTICA organized by Hislop College, Nagpur held in March 2018



B Sc I student Mr Saurabh Jaiswal receiving prize in STATISTICA in HISLOP college

Best Paper Award

Monalisa Mehroliya, research student, Department of Botany received **Late Prof. P.H Gregory award (Young Scientist award)** For best paper presentation

This award was given to **Monalisa Mehroliya** for her joint paper with her guide **Dr. Surekha Kalkar** at Bose Institute, Kolkata in 19th NCA on 11th Dec 2016



Ku. Savita Moundekar and Ku. Jui Pandharipande
students of

M.Sc - Environmental Science

won **Third prize** in

Inter-Collegiate Science Project Competition

organized by **Kamla Nehru Mahavidyalaya, Nagpur**

on **22nd October 2016.**

Project topic - Plastic collection and Recycling



First Prize in Intercollegiate Mathematics Quiz Competition

From left to right: Mr. Pravin Sayare, Dr. Batra, Mr. Akshay Ingle, Dr. R.G. Atram (Director), Dr. U.S. Thool, Mr. Adarsh Narendulwar & Miss Snehal Jamdhade

National Players 2017-18



Name : Zishan M. Kazi
Class : BSc - IIIrd (PSM)
Game : Minigolf National
Event : Single (Gold)



Name : Tushar M. Patil
Class : BSc - IIIrd (PSM)
Game : Minigolf National
Event : Double (Silver)



Name : Pawan S. Katkar
Class : BSc - IIIrd (PSM)
Game : Minigolf National
Event : Mix Double (Silver)



Name : Onker I. Thengne
Class : BSc - Ist (CZEnv)
Game : Minigolf National
Event : Mix Double (Silver)
Double (Gold)



Name : Santanu V. Bankar
Class : BSc - IIIrd (PSM)
Game : Minigolf National
Event : Double (Silver)



Name : Sunny U. Ninawe
Class : BSc - Ist (CBZ)
Game : Minigolf National
Event : Single (Silver)



Name : Taitil D. Yele
Class : BSc - Ist (CBZ)
Game : Minigolf National
Event : Single (Gold)



Name : Kanchan B. Jivanapurkar
Class : BSc - Ist (PSM)
Game : Minigolf National
Event :



Name : Apeksha S. Mankar
Class : BSc - Ist (PSM)
Game : Minigolf National
Event : Mix Double (Silver)



Name : Nirmohi S Vaidya
Class : BSc - Ist (PCM)
Game : Minigolf National
Event : Mix Double (Silver)



Name : Ritu B. Patle
Class : BSc - Ist (CBZ)
Game : Minigolf National
Event : Team (Silver)



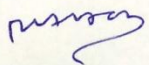
Name : Godavari G. Borkar
Class : BSc - Ist (CBZ)
Game : Minigolf National
Event : Team (Silver)

Criteria II
2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
Industrial Visits and Study Tours

LIST OF FIELD TRIPS CONDUCTED BY VARIOUS DEPARTMENT

1	Visit to Biogas digester plant at Nagpur Municipal Commissioner's Bungalow	Department of environmental science & NMC	2015	4/27/2015	Field Visit
2	Visit to Maharashtra Remote Sensing Applications Centre	Department of environmental science & Maharashtra Remote Sensing Applications Centre, VNIT Campus, Nagpur	2015	4/29/2015	Field Visit.
3	ISPRS Summer School training workshop (Ms. Anagha P Patil)	IIRS Dehradun	2015	7/6/2015	On Job training program , National.
4	Visit to Biodiversity Park at RajBhavan with B.Sc. I students and M.Sc. II students of Botany Department	Raj Bhavan ,Nagpur & BNHS.	2016	10/12/2016	Field Trip
5	Department of Chemistry Visit to MIDC Hingna and Mihaan Project Nagpur.	MIDC	2017	1/12/2017	Field Visit
6	"Migration of Birds" at Gorewada	Forest Department Of Maharashtra.	2017	1/19/2017	Field Visit
7	One Day Workshop On Medicinal Plants	Ayurvan Foundation Katlabodi	2017	2/7/2017	Field Visit.
8	Department of Chemistry Field Trip.	Department of Chemistry.	2017	2/03/17 to 6/03/17	Field trip
9	Department of Enviornmental science Visit of M.Sc. I students to Phyto-remediation Plant, PDKV Nagpur	PDKV	2017	3/15/2017	Field trip
10	Visit of M.Sc. I & II students to Sewage Treatment Plant, Bhandewadi	NMC	2017	3/20/2017	Field trip

11	Visit of M.Sc. I & II students to Water Treatment Plant, Veolia	Veolia Water Treatment Plant	2017	3/22/2017	Field trip
12	Visit of M.Sc. I & II students to Regional Meteorological Centre, Nagpur	Regional Meteorological Centre.	2017	3/23/2017	Field trip
13	Visit of M.Sc. students to, NEERI, Nagpur along with Dr Ramchandra from IISC Bangalore	NEERI, Nagpur.	2017	3/24/2017	Field trip
14	Departmental of zoology visit to Seed Testing laboratory, Nagpur.	Seed testing Laboratory.	2017	3/24/2017	Field trip
15	Botanical Excursion Tour	Department of Botany , at Makardhokda Dam.	2017	9/26/2017	Field trip
16	Department of Statistics -Visit to National Sample Survey Office (NSSO)	NSSO	2017	9/26/2017	Departmental Visit
17	Departmental Visit of External Students Of Kamla Nehru mahavidalaya,Nagpur.	Kamla Nehru Mahavidalaya	2017	10/11/2017	Student Exchange
18	Industrial Visit of the Electronics Department	Shriram rice mill, Pachkhedi	2018	05/01/18 to 06/01/18	Field trip
19	Department of statistics. Visit to NEERI	NEERI, Nagpur.	2018	1/15/2018	Field trip
20	Biodiversity study tour of B.Sc I year to Pench National Park	Department of Environmental Science	2018	2/9/2018	Field trip
21	Department Of Environmental Science - Excursion Tour To Shimla	Department of Environmental Science	2018	11/02/18 to 19/02/18	Field trip
22	Botanical Excursion at Simla, Kullu Manali	Department Of Botany.	2018	2/13/2018	Field trip

23	Department of Zoology Visit to seed testing laboratory	Department of Zoology	2018	2/15/2018	Field trip
24	Visit to Bhandewadi Sewage treatment plant	Department of Environmental Science	2018	3/9/2018	Field trip
25	Visit of PG students to Neelawar Laboratory	Department of Chemistry, in collabration with Neelawar Laboratory	2018	3/22/2018	Field trip
26	Botanical Excursion Tour at Satpuda Botanical Garden	Satpuda Botanical Garden	2018	3/26/2018	Field trip
 Director Institute of Science NAGPUR.					

Study Tours & Industrial Visits

Department of Environmental Science Visit to Biogas Digester Plant at Nagpur Municipal Commissioner's Bungalow (27/04/2015)

Students of B.Sc. Part II visited a Biogas digester plant at Nagpur Municipal Commissioner's Bungalow on 27th April 2015. Shri. Shrikant Pathak explained the entire working of Biogas digester implemented by Kirloskar Pumps.



Visit to Maharashtra Remote Sensing Applications Centre (29/04/2015)

Students of B.Sc. Part II visited Maharashtra Remote Sensing Applications Centre, VNIT Campus, Nagpur and Dr. Ajay Kulkarni a scientist from MRSAC explained about the Basics of Remote Sensing and its Applications in Environmental Science.



SPRS Summer School Training Workshop (06/07/2015)

A research student Ms. Anagha P Patil was selected as one of the participant amongst 20 from all over India for ISPRS Summer School training workshop of 10 days organized by IIRS, Dehradun.



Department Of Botany
Visit to Biodiversity Park at Raj Bhavan with B.Sc. I students and M.Sc. II
students of Botany Department (12/10/2016)

Tour of B.Sc. I & M.Sc. II students was arranged to Biodiversity Park Raj Bhavan, Sadar Nagpur. Fifty students attended the excursion. Executive of Bombay Natural History Society an NGO guided our students. The Biodiversity Park along with thematic sections such as Butterfly garden, Herbal garden, Cactus gardens etc was an ideal opportunity for our students to enrich their knowledge. The nature trail in the Biodiversity Park provides an excellent opportunity to see and understand local biodiversity. Excursion was arranged under the guidance of Dr. P.S. Jakhi and Dr. S.S. Bodkhe.



Department Of Chemistry
One Day Industrial Visit of M.Sc. Students to Hingna MIDC and Mihan
Project Nagpur (12/01/17)

As per the curriculum of M.Sc. Chemistry, students are expected to visit prominent industries and companies for the practical exposure and insight to real working environment. So with the help of MCED, Nagpur Department of Chemistry organized one day industrial visit to Hingna MIDC and MIHAN project on 12 Jan 2017.

Mr. H. R. Waghmare, Project Officer MCED, Udyog Bhavan Nagpur gave permission to visit 10 minor industries in Hingna MIDC and also arranged the special meet with secretary of MIHAN project. He also made arrangement of one guide Mr. Rammilan Kashyam. Department is really very thankful to both of them for giving their valuable time to us.



Department of Zoology
“Migration of Birds” at Gorewada (19/01/2017)

Dr. Kishor. G. Patil, H.O.D. of Zoology Department, Institute of Science and Guest of honor for the workshop explained the importance of Migratory Birds in his introductory speech. He said, “Gorewada International Bio-park is rich in its flora as well as fauna. In the vicinity of Nagpur City it is always an important site for nature lovers, environmentalists, researchers and bird watchers etc. Therefore I found this place ideal for the workshop”. He requested the participants to take part in every session of the workshop and respect nature.



Participants in Workshop on “Migration of Birds” at Gorewada International Bio-park, Nagpur.
Dated 19th Jan. 2017

Department Of Chemistry
Five Days Long Tour Of Rajasthan 2016-17
(2nd - 6th March 2017)

A five day tour to Rajasthan was organized by Department of Chemistry for M. Sc. Students. Dr. Indira Soni, Dr. Naqui Siddiqui and Dr. Rajendra Tayade accompanied the students.



Department of Environmental Science
Visit of M.Sc. I students to Phyto-remediation Plant, PDKV Nagpur
(15/03/2017)



Visit of M.Sc. I & II students to Sewage Treatment Plant, Bhandewadi
(20/03/2017)

Our main purpose for this visit is to be familiar with industrial environment and to get practical knowledge of sewage treatment plant components. Also in our syllabus, subject like water and waste water treatment requires knowledge about how polluted water is being treated, so it is very much convenient to see all the components in real time work environment.



Visit of M.Sc. I & II students to Water Treatment Plant, Veolia (22/03/2017)

On 22nd March, 2017 students have visited the Veolia drinking water treatment plant situated at Godhani, Nagpur. The visit started with a general introduction about the water treatment plant. Mr. Dhiraj Koche, Head of the Veolia projects in Nagpur, explained them about the advanced technologies used in purification of water. He showed them a couple of animated videos explaining the Multiflow-TM and TGV Filters. He also cleared our doubts about the conventional and advanced methods used in treatment of water.



Visit of M.Sc. I & II students to Regional Meteorological Centre, Nagpur (23/03/2017)

Students learned about measurement of wind speed and direction, wind roses and the data interpretation, weather prediction and forecasting by meteorology department, rainfall measurement and forecasting.



Visit of M.Sc. students to, NEERI, Nagpur along with Dr. Ramchandra from IISC Bangalore (24/03/2017)



Students of M.Sc. interacting with Dr. Ramchandra from IISC, Bangalore

Department of Zoology
Visit to Seed Testing Lab. Nagpur (24/03/17)



Department Of Botany
Botanical Excursion to Makardhokda Dam on (26/09/2017)

As a part of B.Sc. Curriculum One Day Excursion tour of B.Sc. III year students was organized to Makardhokda Dam, Saiki Wetland And Mangali Platue by Department Of Botany, Institute of Science, and Nagpur.

The major objective was to familiarize students with flora and ecology of the region. Also to acquaint them with importance of wetlands and threats these ecosystems face due to natural and anthropogenic pressure. A group of 195 students were accompanied by Dr. S.D. Narkhede, Dr. K. D. Jadhav, Dr.H.R.Pohekar, Dr. K.M. Telmore, and Shri. N.B. Yemul & Shri. S.J.Borkar. The tour successfully inculcated in students the practicality of different theoretical concepts of Botany.





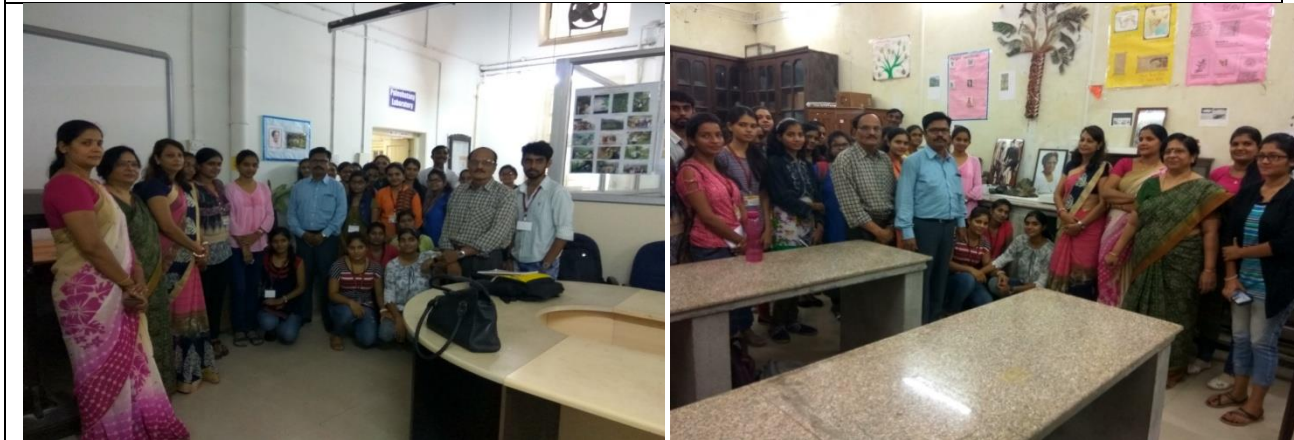
Department of Statistics
Visit to National Sample Survey Office (NSSO) (26/09/2017)

A visit to National Sample Survey Office (NSSO), Nagpur was arranged for the Post graduate students of the department on 26th September 2017. A batch of 40 students along with some faculty members visited the Office. The NSSO authorities acquainted the students with the working of different departments including the Field Operations Division (FOD) and Data Processing Division (DPD). This was followed by an informative presentation by Dr T K Basu, Director General about the role of Statistics in NSSO. There were other presentations by senior officers on the working of NSSO and preparation of Indian Statistical services and State Statistical services. Overall, the visit was very informative and enjoyable.



Department Of Botany

Visit of External Students of Kamla Nehru Mahavidalaya, Nagpur to the Botany Department, Institute of Science, Nagpur (11/10/2017)



Department of Statistics

Visit to NEERI (15/01/18)

In order to make the students aware about the application of Statistics in diverse fields, Department Of Statistics arranged a study tour of P.G. students on 15-01-2018 to NEERI, Nagpur .Around 40 students along with some faculty members participated enthusiastically in the tour.

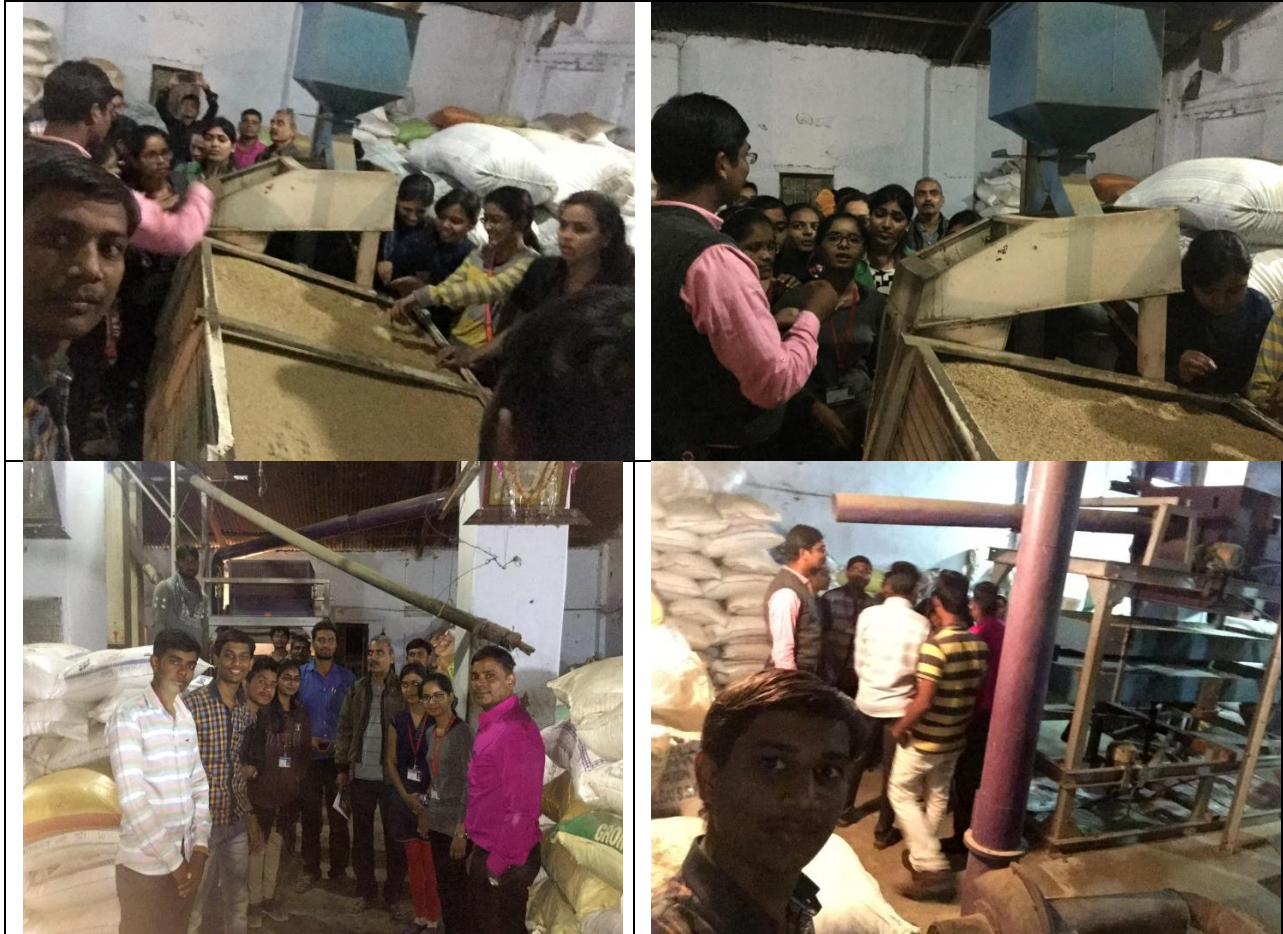
Important aspects such as Dealing with water shortage. Preparing water safety plans, Waste water technology, Environmental Genomics and Removing Waste from drinking water were shown using posters and working models. A short film on Sustainable Development was also shown on this occasion. .

Dr Asha Lalwani , Senior Scientist ,NEERI gave a short description about the problem of air pollution from Koradi and Khaperkheda power plants . She also discussed how this could be explained using a mathematical model based on Normal Distribution (Gaussian Dispersion Phenomenon). The importance of R programming language and Machine Learning of Operational Research was also emphasized.



Department Of Electronics
Industrial Visit of the Electronics Department (05/01/18 to 06/01/18)

Place: Shriram rice mill, Pachkhedi



Department Of Environmental Science
Biodiversity study tour of B.Sc. I to Pench National Park (09/02/18)

Department organized a Biodiversity study tour of B.Sc. I to Pench National Park on 9th February 2018. Students learned about Biodiversity, Wildlife of Pench National Park, Forest Ecology



Department Of Environmental Science
Excursion Tour To Shimla (11/02/18 to 19/02/18)

A long educational tour to Shimla-Manali-Amritsar was organized in the month of February from 11 February 2018 to 19 February 2018. Students studied the flora, fauna, geography and climate of that region. They also visited a Hydroelectric Power Plant situated at Manali.



Botanical Excursion to Simla, Kullu Manali (13/02/18)

A long Botanical Excursion was organized for B. Sc. Sem. VI Students at Delhi, Shimla, Kullu and Manali. Dr. H. R. Pohekar and Dr. K. M. Telmore escorted the students during the tour.



Department of Zoology
Visit to Seed Testing Laboratory (15/02/18)

A central seed testing laboratory is established in IARI, at New Delhi. There are 18 state seed testing laboratories spread over states of India. In Maharashtra, it is located at the College of Agriculture, Nagpur. It is provided with modern seed testing equipments and is helping in seed certification and seed control program.

Its main function is to analyze the seed samples for purity, moisture content, wet seeds (%) and germination, etc and to assist the seed inspectors in determining whether correct labeling is being done as per requirements of the seed act.

The students of M. Sc. Zoology (Semester- 2 & 4) visited the seed testing laboratory on 15th February 2018.

Shri. G. M. Moon, Seed Testing Officer and other officers showed the demonstration of seed testing procedure which determines the standards of seeds on the basis of physical purity, moisture, germination and ODV and thereby enabling the farmer community to get the quality seeds.



Department Of Environmental Science
Visit to Bhandewadi Sewage treatment plant (09/03/18)

B.Sc. III year visited Bhandewadi Sewage treatment plant on 9th March 2018 to study the processes involved in Sewage treatment.

Working and process flow of sewage Treatment Plant, daily sewage generation and the advanced technologies for treatment



Department Of Chemistry
Visit to Neelawar Analytical Laboratory (22/03/18)

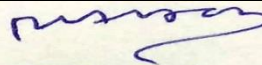
Forty six students and three staff members visited **Neelawar Analytical Laboratory**, one of the biggest testing labs in Maharashtra, nearby Nagpur. Students learnt the method of testing Soil, water and air. Determination of P^H & Conductance by instruments, Sulfur, Phosphorous & Organic Content by Volumetric analysis, Sodium & Potassium by Flame Photometry, and heavy metals in soil and water by Atomic Absorption Spectrometry. Similarly, air sampling equipments were also shown and every instrument was very well explained and demonstrated by the young and enthusiastic staff of the Laboratory. **Mr. Bobade**, manager of the laboratory was very cooperative and supported the students and assured that if any of the students is desirable of learning the working and functioning of the instrument they are free to visit the lab for 2 to 3 days.





Department Of Botany
Botanical Excursion Tour To Satpuda Botanical Garden (26/03/18)




**Director
Institute of Science
NAGPUR.**

Criteria II
2.3.1: Student centric methods, such as experiential learning, participative learning and problem solving methodologies are used for enhancing learning experiences
Subject related Activities-Projects

**List of certificates of field projects undertaken
by Post Graduate students of
Environmental Science Department
for the session
2017-18**



Govt. Institute of Science, Nagpur
Department of Environmental Science

CERTIFICATE

This is to certify that dissertation entitled "Eco-archiving the spectrum of Environmental Assets within the Province of Institute of Science" submitted by Miss. Geetai N. Laxane in fulfillment of Degree of Master of Science (Environmental Science) to Rashtrasant Tukadoji Maharashtra Nagpur University is bonafied research work carried out under our supervision and guidance.

The work embodied in the dissertation has not been submitted for any other degree or diploma.

Name of the Guide

S.D. Narkhede

Dr. Mrs. S.D. Narkhede

Head of the Department
(Environmental Science)

Govt. Institute of Science
**Head of the Dept.,
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR**

Place: Nagpur

Date: April 25, 2018

Name of Co-Guide

Anagha P. Patil

Miss. Anagha P. Patil

Faculty

Dept. of Environmental Science

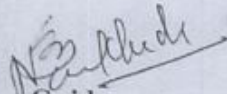
Govt. Institute of Science

CERTIFICATE

This is to certify that a dissertation on "Digitization and Mapping Spatial Data of Gorewada Reservoir and Peripheral Quadrant Vegetation in Quantum GIS" is a bonafide work of **Harish Barewar** submitted to the Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur in partial fulfilment for the award of a Master of Science and has been carried out at the Department of Environmental Science, Government Institute of Science, Nagpur during the academic year 2017-18.

Date:

Place: Nagpur


Guide

Dr. Sushma D. Narkhede

Head

Department of Environmental Science


Co-Guide

Ms. Anagha P. Patil

Faculty

Department of Environmental Science

CERTIFICATE

This is to certify that this project work entitled "Micro Level Plan of Segregation, Collection, Transportation, Treatment and Disposal of Municipal Solid Waste at Source of Dhantoli, Nagpur", contains bonafide work of Ms. Jui M. Pandharipande.

I found the present work suitable for submission during the academic session 2017-2018 in partial fulfillment of the requirement for the award of Degree of Masters of Science from the R.T.M. University, Nagpur.

Sushama Narkhede
17/04/2018
Co-Guide
Dr. Mrs. Sushama Narkhede
Head of the Department,
Institute of Science,
Nagpur.
Head of the Deptt.
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR.

Ramnath Sonawane
Guide
Dr. Ramnath Sonawane
Chief Executive Officer,
Smart and Sustainable City
Development Corporation,
Nagpur.

CERTIFICATE

This is to certify that the work presented in the dissertation entitled "THE PROCESS OF DEVELOPING A SEWAGE MASTER PLAN FOR CITY" by Mr. Kumaresh S. Tikadar, student of M.Sc.-IV semester, Department of Environmental Science, Nagpur carried out project under my guidance and supervision.

I found that present work is suitable for submission to RTM Nagpur University for evaluation award of M.Sc. Degree.

Pranita

GUIDE

DR. PRANITA WATH UMREDKAR

Institute of Science, Nagpur
(Environmental Science)

S. D. Narkhede

CO-GUIDE

DR. S. D. NARKHEDE

Head of Department
(Environmental Science)
Institute of science, Nagpur
Head of the Deptt.
OF ENV. SCIENCE,
INSTITUTE OF S IENCE
CHUR

CERTIFICATE

This is to certify that Mr. Mohammad Hadi Ayyub Sheikh has carried out his project dissertation entitled "REMOVAL OF MALACHITE GREEN DYE FROM WATER BY USING ACTIVATED COCONUT SHELL CARBON" during the academic session of 2017-18 under my supervision in department of environmental science, Institute of Science, Civil Lines, Nagpur. The work presented in her own work of the candidate and has not been submitted anywhere.

Narkhede

Guide

Dr. Sushma .D Narkhede

Head

Department of environmental Science
Institute of Science, Nagpur

Ksingh

Co-guide

Dr. Kalpana Singh

Visiting Faculty

Department of Environmental Science
Institute of Science, Nagpur.

**Head of the Deptt.
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR.**

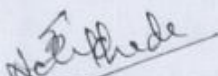
Date: 17/4/18

Place: Nagpur

Certificate

This is to certify that the work presented in this dissertation
"COMPARATIVE STUDY OF ORGANIC FARMING SOIL AND
SOIL WITH CHEMICAL FERTILIZERS" by PIYUSH V.
WAGHMARE has been carried out under my guidance and supervision.

I found that present work is suitable for the submission to the
R.T. M. University for evaluation and award of M.Sc. Degree.


HOD

Dr. Sushma D. Narkhede
Head of the department
Of Environmental Science,
Institute of Science, Nagpur.

**Head of the Deptt.,
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR**



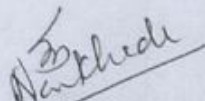
Guide

Prof. S. U. Patil
Assist. Professor
Department of Chemistry
Institute of Science, Nagpur.

SH. S. U. PATIL
Department of Chemistry
Institute of Science, Nagpur

CERTIFICATE

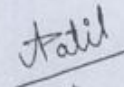
This is to certify that Miss. Reema G. Shende has carried out her project dissertation entitled "**Eco-profile and Bionomic Reconnaissance of Koradi Power Plant Lake**" during the academic session of 2017-18 under my supervision in Department of Environmental Science, Institute of Science, Civil Lines, Nagpur. The work presented in her project is the own work of the candidate and has not been submitted anywhere.


Guide

Dr. Mrs. Sushama Narkhede
Head

Dept. of Environmental Science
Institute of Science
R. T. Road of Civil Lines, Nagpur

**Head of the Deptt.,
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR.**



Co-Guide

Ms. Anagha P. Patil
Faculty

Dept. of Environmental Science
Institute of Science
R. T. Road of Civil Lines, Nagpur

CERTIFICATE

This is to certify that the **Miss. Renuka Sudhir Kamble** has carried out her dissertation entitled "**Environmental Audit of an Industry**" during academic session 2017-18 under my supervision in Department of Environmental Science, Civil Lines, Nagpur. The work presented in the project is the own work of the candidate and has not been submitted anywhere.

Guide

N.S. Raman
13/4/18

Dr. N.S. Raman

Deputy Director & Head of Environmental Audit Cell,
NEERI,
Nagpur.

S.D. Narkhede
Co-Guide

Dr. Sushma D. Narkhede

Head of Department
Department of Environmental Science
Government Institute of Science, Nagpur.

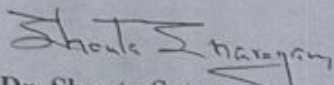
**Head of the Deptt.,
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR.**

Certificate


This is to certify that the dissertation entitled *Parboiled rice mill wastewater treatment by conventional coagulants and a synthetic polyelectrolyte* submitted by **Shubham Shegaonkar** in partial fulfillment of the requirement for the degree of *Master of Science (Environmental Science)* to R.T.M. Nagpur University, Nagpur is a bonafied research work carried out under our supervision and guidance.

The dissertation fulfills the requirement pertaining to the nature and standards of the work for the *M.Sc. Degree (Environmental Science)* in the faculty of Science, R.T.M. Nagpur University, Nagpur. The work presented here has not been submitted for any other degree or diploma.

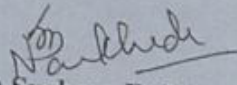
Guide


Dr. Shanta Satyanarayan
Ex Deputy Director
NEERI, Nagpur

Co-guide


Dr. Sharda Kosankar
Scientist C, EBG Division,
NEERI, Nagpur

Place : Nagpur
Date : 18/04/2018


Dr. (Mrs.) Sushma D. Narkhede
Head, Department of
Environmental Science,
Nagpur
Head of the Deptt.
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR.

CERTIFICATE

This is to certify that Miss Yashi Tarun Sharma has carried out his project dissertation entitled **REMOVAL OF CONGO RED DYE FROM AQUEOUS SOLUTION BY USING ORANGE PEEL ACTIVATED CARBON** during the academic session of 2017-18 under my supervision in department of environmental science, Institute of Science, Civil Lines, Nagpur. The work presented in her own work of the candidate and has not been submitted anywhere.

Narkhede

Guide

Dr. Sushma D. Narkhede

Head

Department of environmental Science
Institute of Science, Nagpur

**Head of the Deptt.
OF ENV. SCIENCE,
INSTITUTE OF SCIENCE
NAGPUR.**

K Singh

Co-guide

Dr. Kalpana Singh

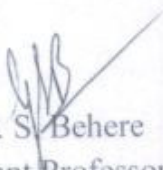
visiting faculty

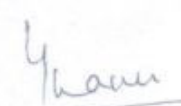
Department of
Environmental science
Institute of Science,
Nagpur

**List of certificates of field projects undertaken
by Post Graduate students of
Statistics Department
for the session
2017-18**

CERTIFICATE

This is to certify that the work in this report entitled "*Fitting of Logistic Regression with Predicted Probability for a Team Winning an ODI*" which is being submitted herewith for the award of the Degree of Master of Science in Statistics of Rashtrasant Tukadoji Maharaj Nagpur University, Nagpur is a result of original research work completed by Mr. Nehal T. Harshe, Mr. Shubham K. Mange, Mr. Anurag N. Sidam under my supervision and guidance in the Department of Statistics, Institute of Science, Nagpur & to the best of my knowledge and belief the embodied in this project report has not formed earlier the basis for the award of any degree of similar of this or any other university or examining body.


Dr. G. S. Behere
Assistant Professor
Department of Statistics
Institute of Science, Nagpur
440001


Dr. K. S. Bhanu
Professor & HOD
Department of Statistics
Institute of Science, Nagpur
440001

Head
Department of Statistics
Institute of Science, Nagpur

Date: 25/04/2018

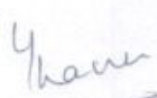
Place: Nagpur.

CERTIFICATE OF THE SUPERVISOR

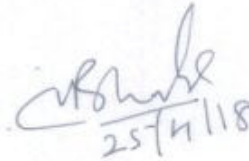
This is to certify that the project report entitled " Population Projection of Nagpur District in 2051", submitted by Ms. Diksha Nigam, Ms. Aparna Bire, Ms. Priyanka Bhongade is a record of bonafied work carried out under my guidance for the partial fulfilment of the degree of master of science in statistics during the academic year 2017-2018.



Dr.A.K.Khamborkar
(Project Supervisor)
Assistant Professor
Department of Statistics
Institute of Science,
Nagpur 440001

Forwarded By 

Dr.K.S.Bhanu
Professor and Head
Department of Statistics
Department of Statistics
Institute of Science,
Nagpur 440001
Head
Department of Statistics
Institute of Science, Nagpur


25/4/18

Date: 25/04/2018
Place: Nagpur

CERTIFICATE

This is to certify that the project report entitled "A Statistical Analysis on Insurance", submitted by Jaya Pandey, Diksha C. Arse, Dolly p. Ingle is a record of bonafied work carried out under my guidance for the partial fulfillment of the degree of Master of Science in Statistics during the academic year 2017-2018.

Place: Nagpur

Date: 25-04-2018

M. V. Alsi

Mrs. M.V. Alsi

(Project Supervisor)

Department of Statistics

Institute of Science, Nagpur 440001

K. S. Bhanu

Year : 2017-2018

DR. K. S. BHANU

HEAD OF DEPARTMENT (STATISTICS)

Institute of Science, Ngp.

Head

Department of Statistics
Institute of Science, Nagpur

Arse
25/4/18

stat

CERTIFICATE

This is to certify that the project report entitled "Survey on Two Wheeler" submitted by Ms. Supriya R Sharma, Ms. Sulaxshana U Khungar , Mr. Paritosh S Kadam is a record of bonified work carried out under my guidance for the partial fulfillment of the degree of Master Of Science in Statistics during the academic year 2017 – 2018.



Dr. Pritee Singh
Assistant Professor
Department Of Statistics
Institute Of Science
Nagpur – 440001



Dr K.S. Bhanu
Professor and Head
Department Of Statistics
Institute Of Science
Nagpur – 440001

Department of Statistics
Institute of Science, Nag



25/4/18

Date: 25/04/2018

Place: Nagpur

Stat

CERTIFICATE

This is to certify that the project entitled **COMPARATIVE STUDY OF OLA AND UBER**, submitted by Ms. Tejal G. Borkar, Ms. Yupika G. Kanojiya, Ms. Lavanya S. Avula is a record of bonafied work carried out under my guidance for the partial fulfillment of the degree of Master of Science in Statistics during the academic year 2017 - 2018.



Dr. Sandhya Dhabe
Associate Professor
Department of Statistics,
Institute of Science
Nagpur 440001




Dr. K.S. Bhanu
Professor & Head
Department of Statistics,
Institute of Science,
Nagpur 440001

Head
Department of Statistics
Institute of Science, Nagpur

Date :

Place : Nagpur


25/4/18

**List of certificates of field projects undertaken
by Post Graduate students of
Zoology Department
for the session
2017-18**

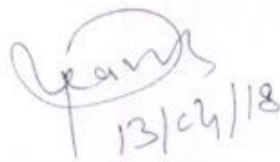
CERTIFICATE

This is to certify that the research project entitled "**Calcium Status in Pre and Post-Menopausal Women of some area of Nagpur region**" submitted by Miss. Sadiya Danish, Miss. Shilpa S.Thawale, Miss. Ruchira B. Chankapure for the award of the degree of "**Master of Science**" in the subject Zoology, Rastrasant Tukadoji Maharaj Nagpur University, under my guidance.

They have completed their work and the project is ready for evaluation.

Place : Govt. Institute of science, Nagpur

Date : 13-04-2018



Dr. Kavita. R. Patil

Supervisor

Head

Department of zoology

Institute of Science, Nagpur

Head of the Zoology Department
Institute of Science, Nagpur



Dr. Kavita. R. Patil

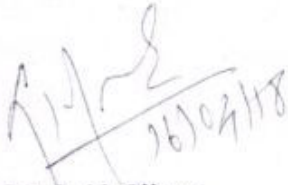
HEAD

Department of zoology

Institute of Science, Nagpur

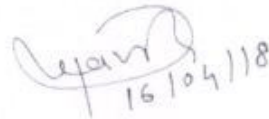
CERTIFICATE

This is to certify that the work presented in this project entitled "QUALITATIVE AND QUANTITATIVE ESTIMATION OF ZOOPLANKTON FROM SARANGPURI LAKE, ARVI, DISTRICT - WARDHA" is own work of Ms. Pranjali S. Lokhande student of M.Sc. IVth semester, for the award of the degree of Master of Science (M.Sc.) in the subject zoology of Rastrasant Tukadoji Maharaj Nagpur University, Nagpur under my supervision. This work has not been submitted earlier to any institution or university for any Diploma or Degree.



Dr. R. V. Tijare
Asst. Professor
Institute of Science, Nagpur

Assistant Professor
Department of Zoology
Institute of Science, Nagpur.



Dr. K. R. Patil
Head of Department, Zoology
Institute of Science, Nagpur

Head of the Zoology Department
Institute of Science, Nagpur

CERTIFICATE

to certify that the work presented in this project entitled "COMPARATIVE STUDY OF PHYSICO-CHEMICAL PARAMETERS OF AMBAZARI AND FUTALA LAKE FROM NAGPUR CITY MAHARASHTRA" is own work of Mr. Harish B. Handekar, Mr. Prashant B. Goraman and Ms. Khushbu P. Paliwal student of M.Sc. 2nd semester, for the award of the degree of Master of Science (M.Sc.) in the subject zoology of Rastrasant Tukadoji Maharaj Nagpur Univesity, Nagpur under my supervision. This work has not been submitted earlier to any institution or university for any Diploma or Degree.

Kawadkar

16/04/2018

Dr. ARUNA K. KAWADKAR

Asst. Professor

Institute of Science, Nagpur

Assistant Professor

Department of Zoology

Institute of Science, Nagpur

Patil

16/04/18

Dr. KAVITA R. PATIL

Head of Department, Zoology


Institute of Science, Nagpur

Head of the Zoology Department

Institute of Science, Nagpur

CERTIFICATE

This is certify that the work presented in this project entitled "QUALITATIVE AND QUANTITATIVE ESTIMATION OF ZOOPLANKTON FROM KHAIRI DAM, KARANJA (GHA.)WARDHA" is own work of Ms. Juhi P. Khanjode student of M.Sc. IVth semester, for the award of the degree of Master of Science (M.Sc.) in the subject zoology of Rastrasant Tukadoji Maharaj Nagpur University, Nagpur under my supervision. This work has not been submitted earlier to any institution or university for any Diploma or Degree.



16/04/18

Dr. R. V. Tijare
Asst. Professor
Institute of Science, Nagpur

Assistant Professor
Department of Zoology
Institute of Science, Nagpur



16/04/18

Dr. K. R. Patil
Head of Department, Zoology
Institute of Science, Nagpur

Head of the Zoology Department
Institute of Science, Nagpur

CERTIFICATE

This is to certify that the work presented in this project entitled "ASSESSMENT OF PHYSICO-CHEMICAL PARAMETERS OF TWO LAKES AT HINGNA TALUKA (DISTRICT NAGPUR)" is original work carried out by Ms. Pradnya R. Gajbhiye & Ms. Neha R. Singh student of M.Sc. IVth semester, for the award of the Degree of Master of Science (M.Sc.) in the subject Zoology of Rastrasant Tukadoji Maharaj Nagpur Univesity, Nagpur under my supervision.

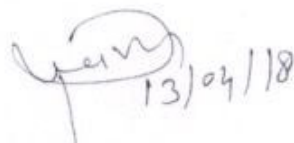


Dr. S.A Koushik

Asso. Professor

Institute of science, Nagpur

Assistant Professor
Department of Zoology
Institute of Science, Nagpur.



Dr. K.R. Patil

Head of the Zoology Department
Head,
Institute of Science, Nagpur

Department of Zoology

Institute of science, Nagpur

CERTIFICATE

It is to certify that the work presented in this project entitled "ASSESSMENT OF PHYSICO-CHEMICAL PARAMETERS OF TWO LAKES AT NGNA TALUKA (DISTRICT NAGPUR)" is original work carried out by Ms. Pradnya R. Gajbhiye & Ms. Neha R. Singh student of M.Sc. IVth semester, for the award of the Degree of Master of Science (M.Sc.) in the subject Zoology at Rastrasant Tukadoji Maharaj Nagpur University, Nagpur under my supervision.



Dr. S.A Koushik
Asso. Professor
Institute of science, Nagpur
Assistant Professor
Department of Zoology
Institute of Science, Nagpur.



Dr. K.R. Patil
Head,
Department of Zoology
Institute of Science, Nagpur
Department of Zoology
Institute of science, Nagpur

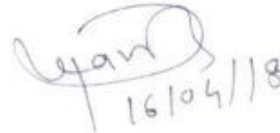
CERTIFICATE

This is to certify that the work presented in this project entitled "QUALITATIVE AND QUANTITATIVE ESTIMATION OF ZOOPLANKTON FROM VENNA LAKE, DHAMNA, NAGPUR" is own work of Ms. Puja N. Ugemuge student of M.Sc. IVth semester, for the award of the degree of Master of Science (M.Sc.) in the subject zoology of Rastrasant Tukadoji Maharaj Nagpur University, Nagpur under my supervision. This work has not been submitted earlier to any institution or university for any Diploma or Degree.



Dr. R. V. Tijare
Asst. Professor
Institute of Science, Nagpur

Assistant Professor
Department of Zoology
Institute of Science, Nagpur



Dr. K. R. Patil
Head of Department, Zoology
Institute of Science, Nagpur

Head of the Zoology Department
Institute of Science, Nagpur

CERTIFICATE

This is certify that Project Report entited ,*sericulture production* is submitted by *Miss. RajaswitaKengale* in the partial fulfillment of the condition for the Degree of M.Sc in zoology , RashtrasantTukdojiMaharaj University , Nagpur under my guidance .



Handwritten signature of Dr. K.R. Patil, dated 17/03/18.

DR .K .R . PATIL

Head of Department
Dept. of Zoology
Rashtrasant Tukdoji Maharaj University, Nagpur

DR .CHOUGALE

Associated Professor
Department of Zoology

Examiner's :

Date : 16/4/2018

Place : Nagpur

CERTIFICATE

This is to certify that Project Report entitled, Medicinal Plants with Aphrodisiac: A Review is submitted by Miss. **Aasiya Syed Nasir** in the partial fulfillment of the condition for the Degree of M.Sc. in Zoology, Rashtrasant Tukdoji Maharaj University, Nagpur under my guidance.



13/4/18

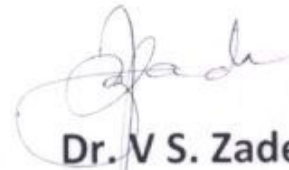
Dr. K R. Patil
Head of Department
Dept. of Zoology

Head of the Zoology Department
Nagpur

Examiner's Sign:

Date: / /

Place: Nagpur

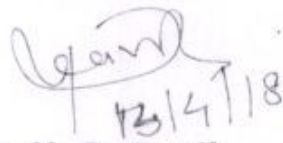


Dr. V S. Zade
Associate Professor
Department of Zoology

Assistant Professor
Department of Zoology
Institute of Science, Nagpur

CERTIFICATE

This is to certify that Project Report entitled, **Medicinal Plants with Abortifacient activity : A Review** is submitted by **Miss. Mohini M. Dadhe** in the partial fulfillment of the condition for the Degree of M.Sc. in Zoology, Rashtrasant Tukdoji Maharaj University, Nagpur under my guidance.



13/4/18

Dr. K. R. Patil
Head of Department
Dept. of Zoology

Head of the Zoology Department
Institute of Science, Nagpur

Examiner's Sign:

Date: / /

Place: Nagpur

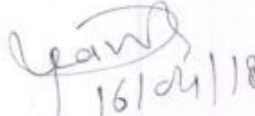


Dr. V. S. Zade
Associate Professor
Department of Zoology

Associate Professor
Department of Zoology
Institute of Science, Nagpur

CERTIFICATE

This is to certify that project report entitled "Prediction of B cell linear epitopes of *Pseudomonas aeruginosa* by reverse vaccinology" is submitted by Miss. NISHAD SHEIKH and Miss. KARISHMA GULE, in the partial fulfillment of the condition for the award of the degree of Master of Science to Rashtrasant Tukdoji Maharaj Nagpur University, Nagpur has been prepared under my supervision and guidance.


16/04/18
Dr. K. R. Patil

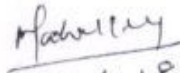
Head of the department
Dept. of Zoology

Head of the Zoology Department
Institute of Science, Nagpur

Examiner's signature

Date:

Place: Nagpur


16.4.18

Mrs. A. N. Mahalley
Assistant professor
Dept. of Zoology

Assistant Professor
Department of Zoology
Institute of Science, Nagpur



GOVT. INSTITUTE OF SCIENCE, NAGPUR

Ravindranath Tagore Marg, Civil Lines, Nagpur – 440 001

Telephone: 07112-2565581/2561148

Fax: 0712-2565581

CERTIFICATE

This is to certify that the project entitled, "STUDIES ON SKELETON OF THE INDIAN MAJOR CARP, *LABEO ROHITA* (HAMILTON, 1822)" has been originally prepared by Ms. Heena Diliprao Bharne, Ms. Kshitija Abhayrao Wekhande And Ms. Shraddha Shankarrao Barahate, under my guidance and here by the same is submitted towards partial fulfillment for the award of degree of Master of Science in Zoology of R. T. M. Nagpur University, Nagpur.

Head of the Zoology Department
Institute of Science, Nagpur

Department of Zoology
Govt. Institute of Science, Nagpur

Supervisor
Dr. J. S. Maske
Assistant Professor
Department of Zoology

Assistant Professor
Department of Zoology
Institute of Science, Nagpur

Date: 16/04/2018
Place: Nagpur

**List of certificates of field projects undertaken
by Post Graduate students of
Botany Department
for the session
2017-18**


CERTIFICATE

This is to certify that, Miss. Shabnam L. Sheikh student of M.Sc. Semester IV, Department of Botany, Nagpur has been carried out project entitled "Pollen Analysis of Honey Samples from Village Area Seloo Tahsil, Wardha District (M.S.)" for the partial fulfilment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Guide

Dr. (Mrs.) S. A. Kalkar
Associate professor
Department of Botany,
Institute of Science, Nagpur



Dr. R. A. Satpute

Head, Department of Botany
Institute of Science, Nagpur

बिभाग प्रमुख वनस्पतीशास्त्र
बिज्ञान संस्था नागपुर

CERTIFICATE

This is to certify that, Miss. Shabnam L. Sheikh student of M.Sc. Semester IV, Department of Botany, Nagpur has been carried out project entitled "Physicochemical parameters of honey samples from village area of Seloo tahsil, Wardha district (M.S.)" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Guide

Dr. (Mrs.) S. A. Kalkar

Associate professor

Department of Botany,

Institute of Science, Nagpur



Dr. R. A. Satpute

Head, Department of Botany

Institute of Science, Nagpur

बिज्ञान प्रमुख वनस्पतीशास्त्र

विज्ञान संस्था नागपूर

CERTIFICATE

This is to certify that, Miss. Pooja .N. Saraf, student of M.Sc Semester -IV, Department of Botany, Nagpur has been carried out project entitled "Melissopalynological Studies of Bee pollen loads of *Apis florea* F. from Hamdpur Village of Wardha district with reference to Bee forage sources and Biochemical content" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Guide

Dr. (Mrs.) S. A. Kalkar
Associate professor
Department of Botany,
Institute of Science, Nagpur

विभाग प्रमुख, रत्नमती विद्यापीठ
विज्ञान संस्था, नगपुर



Dr. R. A. Satpute

Head, Department of Botany
Institute of Science, Nagpur

CERTIFICATE

This is to certify that, Miss. Rizwana N. Sheikh student of M.Sc. Semester IV, Department of Botany, Nagpur has been carried out project entitled "Exploration of bee pollen sources of *Apis florea* F. from Hamdapur village of Wardha district (M.S.)" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



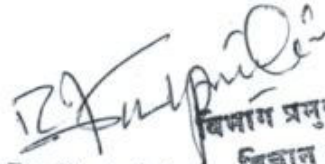
Guide

Dr. (Mrs.) S. A. Kalkar

Associate professor

Department of Botany,

Institute of Science, Nagpur



Dr. R. A. Satpute

विभाग प्रमुख वनस्पतीशास्त्र
विज्ञान संस्था नागपूर

Head, Department of Botany

Institute of Science, Nagpur

CERTIFICATE

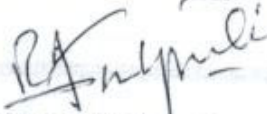
This is to certify that, Miss. Harsha S. Sangrame, student of M.sc-IV semester, Department of Botany, Nagpur has been carried out project entitled "Economic importance and medicinal uses of wild edible vegetables used by local people of Sivanibandh, Sakoli Taluka Districts Bhandara" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Guide:

Prof. Dr. R.A. Satpute
Head Department of the
Botany,

Institute of Science, Nagpur



Prof. Dr. R.A. Satpute
Head of the Department (Botany)

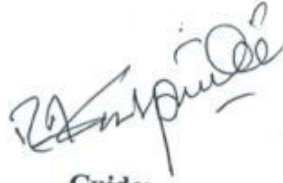
Institute of Science, Nagpur

विभाग प्रमुख वनस्पतिशास्त्र

विज्ञान संस्था नागपुर

CERTIFICATE

This is to certify that, Miss Monali Deorao Borkar, student of M.sc-IV semester, Department of Botany, Nagpur has carried out project entitled "Study of Aquatic Macrophytes From Fresh Water Reservoirs of Sindewahi Village of Chandrapur District, Maharashtra" in the partial fulfillment for degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Guide:

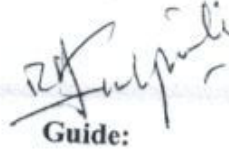
Dr. R.A. Satpute
Professor and Head
Department of Botany,
Institute of Science, Nagpur



Prof. (Dr.) R.A. Satpute
Head of the Department (Botany)
Institute of Science, Nagpur
विभाग प्रमुख वनस्पतीशास्त्र
विज्ञान संस्था नागपूर

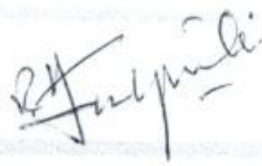
CERTIFICATE

This is to certify that, Miss. Pranali R. Topale, student of M.Sc.semesterIV Department of Botany, Nagpur has been carried out project entitled "Synthesis of silver nanoparticles using endophytic fungi from *Amaranthus viridis* (family: Amarantaceae) under different wavelengths of visible light" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Guide:

Prof.Dr. R.A.Satpute
Head Department of the
Botany,
Institute of Science, Nagpur



Prof.Dr. R.A. Satpute
Head of the Department (Botany)
Institute of Science, Nagpur


विद्यया ऽमृतमश्नुते
विद्यायां संन्यासमाप्नुते

CERTIFICATE

This is to certify that, Miss. Shalaka L. Shewade, student of MSc-IV semester, Department of Botany Institute Of Science, Nagpur has been carried out project entitled "Estimation of secondary metabolites from *Clerodendrum infortunatum*" for the partial fulfilment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.

Date : 23/04/18

Place : Nagpur


23-04-18


Guide:

Dr. Kirankumar D. Jadhao
Assistant professor
Department of Botany,
Institute Of Science, Nagpur
2017-18



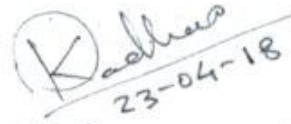
Dr. R. A. Satpute
Head of the Department (Botany)
Institute Of Science, Nagpur
2017-18

बिभाग प्रमुख वनस्पतीशास्त्र
बिज्ञान संस्था नागपूर


23-4-18

CERTIFICATE

This is certify that Miss. Apurva B. Bondre, student of M.Sc. IV semester, Department of Botany, Institute of Science, Nagpur has been carried out project entitled "Evaluation of secondary metabolites from *Gardenia gummifera* (L.) an Indian medicinal plant" for the partial fulfillment of degree of Master of Science (Botany), R.T.M .Nagpur University during the academic year 2017-2018.


23-04-18

Guide:

Dr. Kirankumar D. Jadhao
Assistant professor
Department of Botany,
Institute of Science, Nagpur
2017-18



Dr. R.A. Satpute

Head of the Department (Botany)

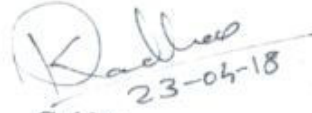
Institute of Science, Nagpur

विभाग प्रमुख वनस्पतशास्त्र

विज्ञान संस्था नागपूर

CERTIFICATE

This is to certify that, Miss. Sujata R. Misal, student of M.sc-IV semester, Department of Botany, Institute of Science, Nagpur has been carried out project entitled "Estimation of secondary metabolites from *Cymbopogon citratus*" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.


23-04-18

Guide:

Dr. Kirankumar D. Jadhao

Assistant professor

Department of Botany,

Institute of Science, Nagpur



Prof. Dr. R.A. Satpute

Head of Department,

Botany.

Institute of Science,

Nagpur

विभागाध्यक्ष वनस्पतीशास्त्र

विज्ञान संस्था नागपूर


24-4-18

CERTIFICATE

This is to certify that the project entitled "Identification And Investigation Of Bio-Pesticides /Herbal Pesticides Properties in Regional Plants" Submitted by Miss. Yogeshwari R. Karanjekar, in partial fulfillment of requirement for the Degree of Maters of Science in Botany to R.T.M.N.U. Nagpur is a bonafied research work carried out under my supervision and guidance.

This project fulfils the requirement pertaining to the nature and standard of work for the M. Sc. Degree (Botany) in the faculty of science, RTM Nagpur University, Nagpur. The work presented here has not been submitted for any other degree or diploma.

Place: Nagpur
Date: 17/04/2018


Guide:

Dr. S. D. Narkhede,
Associate professor
Department of Botany,
Institute of Science, Nagpur



Dr. R.A. Satpute
Head, Department of Botany
Institute of Science, Nagpur
विज्ञान प्रमुख वनस्पतशास्त्र
विज्ञान संस्था नागपुर

CERTIFICATE

I hereby certify that this project entitled "*ANATOMICAL STUDY OF A DICOTYLEDONOUS WOOD FROM DECCAN INTERTRAPPEAN EXPOSURES OF RAMBHAKHERI, MADHYA PRADESH, INDIA*" submitted for partial fulfillment of the degree of master of science, Nagpur University, Nagpur, embodies the result of bonafide project work carried out by *Miss. Shriya G. Sagar* under my guidance and supervision. I find this work comprehensive, complete and fit for the purpose of sending it to the examine.

I further certify that such help or source of information has been availed of in this connection is duly acknowledged and no part of this project ever has been submitted anywhere else for any other degree.



Dr.S.D.Narkhede
Associate Professor,
Department of Botany
Institute of Science, Nagpur



Dr.R.A.Satpute
Head, department of Botany
Institute of Science, Nagpur

विभाग १३३ पारंपारिक शास्त्र
विज्ञान संस्था नागपूर

CERTIFICATE

This is to certify that, Miss, ritu o.kapse student of M.sc-IV semester, Department of Botany, Nagpur has been carried out project entitled "*Study of ground water quality from Residential area of Saoner Tehsil*" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University, Nagpur during the academic year 2017-2018.



Guide:

Dr. sushama D.narkhede
Associate professor
Department of Botany,
Institute of Science, Nagpur



Dr. R.A. Satpute
Head of the Department (Botany)
Institute of Science, Nagpur
विभाग प्रमुख वनस्पतीशास्त्र
विज्ञान संस्था नागपूर

CERTIFICATE

This is to certify that, **Miss. Kiran S. Raut**, student of M.sc-IV semester, Department of Botany, Nagpur has been carried out project entitled "*Anatomical Study of A Bisexual Flower from the Deccan Intertrappean Bed of Bhutera, Madhaya Pradesh, India*" for the partial fulfillment of degree of **Master of Science (Botany)**, R.T.M. Nagpur University during the academic year 2017-2018.



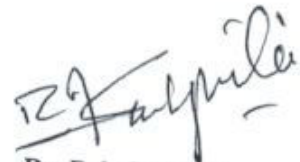
Guide:

Dr. S.D. Narkhede,

Associate professor

Department of Botany,

Institute of Science, Nagpur



Dr. R.A. Satpute

Head

Department of Botany

Institute of Science, Nagpur

CERTIFICATE

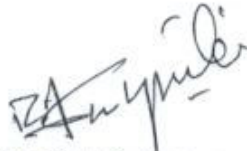
This is to certify that the work presented in the dissertation entitled 'Evaluation of lake water, pond water & drinking water quality through use of simple physico-chemical parameters' has been carried out under our guidance and supervision.

We found that the present work is suitable for the submission to the R.T.M. Nagpur University for Evaluation and Award of M.Sc. Post Graduate Degree.



Guide :

Dr. K R Gopal.



Dr. R.A. Satpute

Head of the Department (Botany)

Institute of Science, Nagpur

विभाग प्रमुख वनस्पतीशास्त्र

विज्ञान संस्था नागपुर



24/2/18

CERTIFICATE

This is to certify that, **Miss. Neha J.Tiwari**, student of M.sc-IV semester, Department of Botany, Nagpur has been carried out project entitled "Ethnobotanical study of fruits and their medicinal values" for the partial fulfillment of degree of **Master of Science (Botany)**, R.T.M. Nagpur University during the academic year 2017-2018.



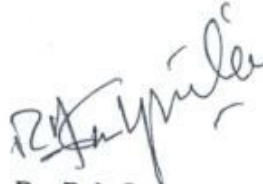
Guide:

Dr. K.R.Gopal

Associate professor

Department of Botany,

Institute of Science, Nagpur



Dr. R.A. Satpute

Head

Department of Botany

Institute of Science, Nagpur

विज्ञान प्रमुख वनस्पतीशास्त्र

विज्ञान संस्था नागपूर



24-4-2018

CERTIFICATE

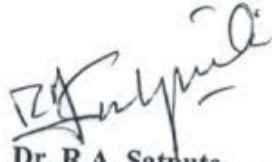
This is to certify that, Miss. Aishwarya M.Rahood student of M.Sc. Semester IV, Department of Botany, Nagpur has been carried out project entitled "Evaluation of Biofortification of Rice Varieties of Easter Vidarbha Zone" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Guide

Dr. K.R. Gopal

Associate professor,
Department of Botany,
Institute of Science, Nagpur



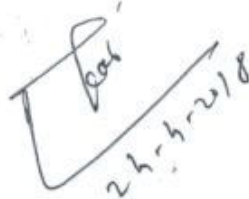
Dr. R.A. Satpute

Head of the Department (Botany)

Institute of Science, Nagpur

विभाग मध्य वनस्पतीशास्त्र

विज्ञान संस्था नागपूर


24-4-2018

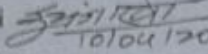
CERTIFICATE

This is to certify that, Miss. Diksha B. Potbhare, student of M.Sc-IV semester, Department of Botany, Nagpur has been carried out project entitled "Effect of Fertilizers on plant growth & Qualitative parameters of various vegetable crop plants from Gondkhairi village, Amravati road, Nagpur." for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.

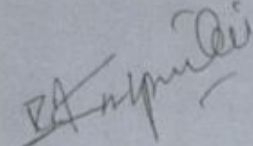
Date : 23/04/18

Place : Nagpur

Guide:

Dr. P. S. Jakhi 
16/04/2018

Associate professor
Department of Botany,
Institute of Science, Nagpur



Dr. R.A. Satpute

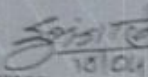
Head of the Department (Botany)
Institute of Science, Nagpur.

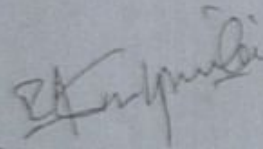
विभाग प्रमुख वनस्पतीशास्त्र
विज्ञान संस्था नागपुर

CERTIFICATE

This is to certify that, Miss. Snehal S. Lenghe, student of M.Sc-
II semester, Department of Botany, Nagpur has been carried out
project entitled "Effect of Fertilizers on plant growth & Qualitative
parameters of various vegetable crop plants from Gondkhairi village,
Anandnagar road, Nagpur." for the partial fulfillment of degree of
Master of Science (Botany), R.T.M. Nagpur University during the
academic year 2017-2018.

Guide:

Dr. P. S. Jakhi 
Associate professor
Department of Botany,
Institute of Science, Nagpur

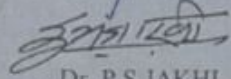

Dr. R.A. Satpute
Head of the Department (Botany)
Institute of Science, Nagpur

विभाग प्रमुख वनस्पतीशास्त्र
विज्ञान संस्था नागपूर

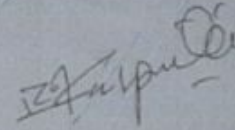
place - Nagpur
Date - 23/4/18

CERTIFICATE

This is to certify that, Miss. Anjali A. Tapile, student of M.Sc (Botany)-Sem. IV, has been carried out project entitled "INVNTORIZATION OF VARIOUS WILD VEGETABLES USED BY LQCAL PEOPLE FROM UDASA VILLAGE, UMRED TALUKA" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Dr. P.S.JAKHI
Associate professor
Department of Botany,
Institute of Science, Nagpur



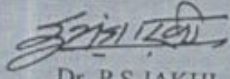
Dr. R.A. Satpute
Head of the Department
Institute of Science, Nagpur
विभाग प्रमुख वनस्पतीशास्त्र
विज्ञान संस्था नागपूर

Place: Nagpur

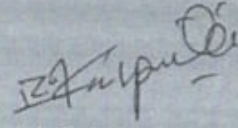
Date: 10/04/2018

CERTIFICATE

This is to certify that, Miss. Anjali A. Tapile, student of M.Sc (Botany)-Sem. IV, has been carried out project entitled "INVNTORIZATION OF VARIOUS WILD VEGETABLES USED BY LOCAL PEOPLE FROM UDASA VILLAGE, UMRED TALUKA" for the partial fulfillment of degree of Master of Science (Botany), R.T.M. Nagpur University during the academic year 2017-2018.



Dr. P.S.JAKHI
Associate professor
Department of Botany,
Institute of Science, Nagpur



Dr. R.A. Satpute
Head of the Department
Institute of Science, Nagpur

विभाग प्रमुख वनस्पतीशास्त्र
विज्ञान संस्था नागपूर

Place: Nagpur

Date: 10/04/2018