## **Report of Science Academies' Virtual Lecture Workshop**



on "Fundamental Chemistry" in collaboration

with



Indian Academy of Sciences, Bengaluru Indian National Science Academy, New Delhi The National Academy of Sciences India, Prayagraj Date: 23- 25 October 2021 (Ref. No: SEP/LW/October/2021 Date: 18/08/2021)



**Organized By** 

Department of Chemistry Dayanand Science college, Latur-413512 Maharashtra, India

### **About the workshop:**

Dayanand Science College organized Science Academies' Virtual Lecture Workshop on **"Fundamental Chemistry"** for B.Sc. T.Y. Chemistry students in collaboration with Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences India, Prayagraj

### The objectives of the workshop:

- To give the opportunity to B. Sc.T.Y. students to learn about Fundamental Chemistry in greater detail than it is possible during their regular classes as part of curriculum.
- > To develop more interest in chemistry.
- > To increase numerical problem-solving skills than memorization.
- > To motivate these students to complete their PG (M.Sc.) in chemistry.
- > To develop greater interest for research in chemistry after completion of UG/PG.

To keep these objectives in mind, we arrange this workshop for the benefit of B.Sc. T.Y. Chemistry students.

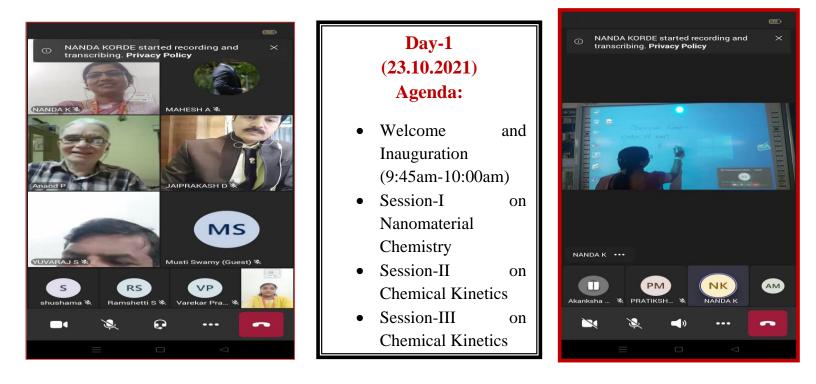
### **Date and Venue:**

The workshop took place on  $23^{rd} - 25^{th}$  October 2021 at Dayanand science college, Latur.



- 1) Nanomaterial Chemistry
- 2) Bio-organic chemistry
- 3) Short lived species: Characterization and Dynamics
- 4) Fluorescence Spectroscopy: Fundamentals and some applications
- 5) Chemical Biology
- 6) Coordination chemistry

## 7) Chemical Kinetics



The inaugural ceremony was inaugurated by the auspicious hands of Chief guest and Convener of this virtual workshop Prof. Anand Pathak, Dr. Jaiprakash Dargad, Principal, Dayanand Science College, Dr. S.S. Bellale, Vice-Principal, Dayanand Science college, Dr. Yuvraj Sarnikar, Head of chemistry department, Dr. Nanda Sheshrao Korde,

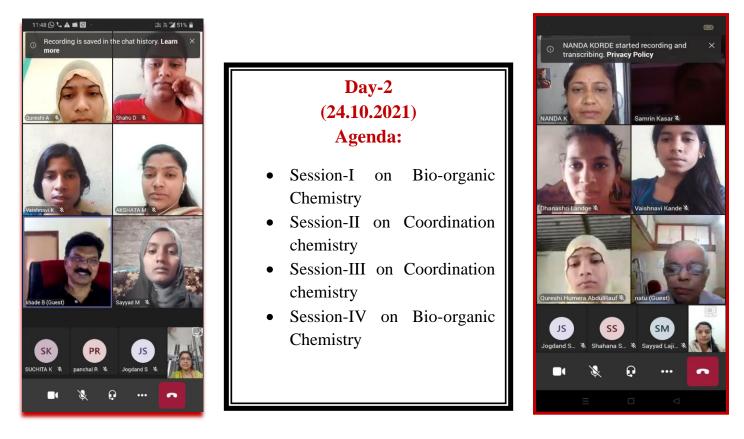
Co-ordinator of this workshop.

After inaugural ceremony Prof. Anand Pathak conducted a highly interactive session I on Nanomaterial Chemistry. He explained very systematic way typical energies, energy diagrams for single atom, bulk crystal and quantum dot.

Second session on Chemical kinetics was delivered by Dr. N.S.Korde She explained basic terms involved in chemical kinetics. She derived equation of velocity constant for third order reaction with equal concentration and explained characteristics of third order reaction.

After lunch break third session began with Chemical Kinetics by Dr. N.S.Korde. She derived kinetic equation for complex reaction such as opposing reaction and chain reaction. Also derived kinetic equation for photochemical reaction with suitable examples.

Session IV was started with Nanometerial chemistry by Prof.Anand Pathak. The session converted to the student participant in a dialogue that generates knowledge.



On second day 24 Oct 2021, workshop began with the session I on Bio-organic chemistry by Prof. Nattu A.A. in which he described several points on chemical origins of biology as DNA, RNA, lipids, cell energy requirements and importance of ATP to ADP conversions.

After this a session II on Coordination Chemistry delivered by Prof. B.C.Khade. He discussed about the importance of coordination chemistry, difference between primary valency and secondary valency, application of Werners theory, the shape of d orbital.

In post lunch session III, the first talk was given by Prof. B.C.Khade. In this session he focused on postulates of CFT, splitting of d orbital in octahedral, tetrahedral, tetragonal and square planar complexes, calculation of crystal field stabilization energy. Participant solved many numerical given by Prof. B.C.Khade. The session was very interactive and many of our participans were actively interacted with the resource person.

Last session IV started by Prof. Nattu A.A. on Bio-organic chemistry. He focused nucleoside to nucleotide to oligometer to genes to chromosome travel, application of synthetic oligo nucleotides in diagnostics as well as recently developed Antisense Technology using examples of contemporary drug molecules. The session was very informative and many of our participants were actively interacted with Prof. Arvind Natu.



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| ← •             | Virtual Lecture Worksh<br>03:15:44 <sup>36 attendees</sup> Wha                               | op on Fundamental Chemistry fo<br><mark>t are lipids?</mark>       | € ಕಿ⁺ | Stanset up to 44 | •   |
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|                 | Denald M. Small 1986<br>The Physical<br>Chemistry of Lipids<br>From Allane: to Phospholipids | <ul> <li>A polar region and</li> <li>A non-polar region</li> </ul> |       | Musti S (Guest)  | Ģ   |
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## Day-3 (25.10.2021) Agenda:

- Session-I on Short lived species: Characterization and dynamics
- Session-II on Chemical Biology
- Session-III on Fluorescence Specroscopy: Fundamentals and some applications
- Session IV on Chemical Biology
- Valedictory session

On last day 25 Oct 2021, workshop began with the session I on Short lived species: Characterization and dynamics by Professor A. Samantha in which he described reactions that occurs in timescales ranging from a few seconds to a few femtoseconds. Also he discussed about the difficulties associated with precise estimation of the kinetics of these fast and ultrafast reactions.

After this a session II on Chemical Biology delivered by Prof.Musty J.Swamy. He gave information about chemical structure, conformation and 3-dimensional structure of biomicromolecules such as proteins, polysaccharides, RNA and DNA.

In post lunch session III, the first talk was given by Prof. A. Samantha. In this session he focused on flow techniques, relaxation techniques, pump-probe techniques and fluorescence based techniques. The session was very interactive and many of our participants were actively interacted with the resource person.

Last session IV started by Prof. Musty J. Swamy on Chemical Biology. He focused on synthesis, supramolecular aggregation, phase behavior of bio-inspired lipids and amphiphilies.

At the end of the workshop, the Valedictory session was held at 5:30pm-6:00pm which was chaired by Prof. Musty J.Swamy, FNASc, FASc, School of chemistry, University of Hydrabad, Hydrabad, Prof. Anand Pathak, FNASc, F. Inst. P(London), School of Physics, University of Hydrabad, Hydrabad Dr. Jaiprakash Dargad, Principal, Dayanand Science College, Latur .Prof. Musty J. Swamy during his speech motivate the student participants for higher education in chemistry. He gave information about the admission process of summer camp-2022 sponsored by Indian Academy of Sciences, Bengaluru. Prof. Anand Pathak expressed his trust that the participants would gain the knowledge from such workshop that shape up their personality, life. Three student participants namely Miss Dhanashri Landge, Dyanopasak college Parbhani, Mr. Bajrang Karad, Rajarshi Shahu Mahavidyalaya Latur and Miss Pratiksha More, Dayanand Science College, Latur gave very positive and appreciated feedback during valedictory session. Prof. Musty J.Swamy congratulated all the participants and organizers for successful completion of workshop. During the presidential talk, Principal Dr. Jaiprakash Dargad said that the National, International conferences, workshops, Inspire camp, Ph.D.courses, Refresher courses organized by Dayanand science college regularly due to which college provides quality education to students as well as teachers.

### **Outcomes from the workshop:**

- 1) This workshop helped the students to learn and understand the impact of the chemistry in societal and environmental context and demonstrate the knowledge & need for sustainable development.
- 2) This workshop assists participant students to communicate the views and opinion
- 3) This workshop boosts the students to apply the knowledge of chemistry to the solution of complex chemistry problems.
- 4) Participant students learned new techniques to enhance knowledge
- 5) This workshop provided opportunity to the students to interact with Sr. Scientists, Researchers and Professors

### No. of Beneficiaries:

Total 125 student participants get benefited.

### Acknowledgement:

I would like to express my sincere gratitude to Indian Academy of Sciences, Bengaluru, Indian National Science Academy, New Delhi and The National Academy of Sciences India, Prayagraj for sponsoring this virtual lecture workshop.

I would like to acknowledge my obligation to Prof.Anand Pathak, FNASc, F. Inst. P(London), School of Physics, University of Hydrabad, Hydrabad who worked as a Convener for entire workshop and his guidance has contributed to the successful execution of workshop. My deepest sense of appreciation to Dr. J.S. Dargad, Principal, Dayanand Science college, Latur Latur for his constant motivation and encouragement during entire workshop. I would like to mention my sincere thanks to all resource persons for sharing their knowledge and gracing the entire workshop

Link:https://teams.microsoft.com/l/meetupjoin/19%3ameeting\_NDliODdjNTQtOTI5Yy00MTliLTk5NmMtM2UwZjEzZWNkODE z%40thread.v2/0?context=%7b%22Tid%22%3a%229f2250c0-771c-42ad-ad5c-909b9281220e%22%2c%22Oid%22%3a%2243a3d581-82be-49d3-9977-99591963f785%22%7d

## दयानंद विज्ञान महाविद्यालयात 'मूलभूत रसायनशास्र' या विषयावरील तीन दिवसीय ऑनलाईन व्याख्यान कार्यशाळेचे उद्घाटन

संयुक्त सायन्ससेस, बेंगलोर यांच्या दिनांक ऑक्टोंबर 23 ते २५ ऑक्टोंबर २०२१ दरम्यान करण्यात आलेल्या

मूलभूत रसायनशास्त्र या विषयावरील तीन कार्यशाळेचे दिवसीय उद्घाटन झाले.त्यावेळी ते पाहणे, कार्यशाळा प्रमुख संयोजक व साधन व्यक्ती म्हणन बोलत होते. कार्यशाळेच्या उद्घाटन प्रसंगी अध्यक्षस्थानी महाविद्यालयाचे पाचार्य डॉ.जयप्रकाश दरगड होते.याप्रसंगी उपप्राचार्य डॉ.एस.एस.बेल्लाळे,

रसायनशास्त्र विभाग प्रमरव डॉ.यूवराज सारणीकर,कार्यशाळा समन्वयक डॉ.नंदिनी कोरडे,तांत्रिक समन्वयक शिंदे,प्रा.अमोल सांजेकर

यांची प्रमुख उपस्थिती होती. अध्यक्षीय समारोप करताना

शिक्षणामळे विद्यमाने आहेत. आयोजित

लातर/प्रतिनिधी : आज करोना काळातही ऑनलाईन दारे उघडी शिक्षणाची ऑनलाईन शिक्षण हा करोना काळातील

शिक्षणासाठीचा योग्य पर्याय आहे. विद्यार्थी हे देशाचे भवितव्य आहेत. विद्यार्थ्यानी समाजात काळजी पूर्वक वावरावे आणि चुकीच्या कुठल्याही गोष्टीचे समर्थन करू नये,याचबरोबर रसायनशास्त्रसारखा विषय विद्यार्थ्यांच्या भवितव्यासाठी अत्यंत महत्त्वाचा आहे,त्यात करिअर , अ से क रावे प्रतिपादन हैदराबाद विद्यापीठाच्या

भौतिकशास्त्र विभागातील माजी प्रो.डॉ. आनंद पाठक यांनी केले.

येथील दयानंद विज्ञान महाविद्यालयातील रसायनशास्त्र विभाग व इंडियन अँकॅंडमी आँफ



डॉ.रोहिणी

प्राचार्य डॉ.जयप्रकाश दरगड असे की,बी.एस्सी.तृतीय ਰਬ म्हणाले

रसायनशास्त्र विषयाच्या विद्यार्थ्यांसाठी आयोजित केलेली ही कार्यशाळा मार्गदर्शक,स्फूर्तीदायी,

रसायनशास्त्र या विषयाचे सखोल असे ज्ञान देणारी आहे.या कार्यशाळेतील तज्ज्ञ मार्गदर्शकांच्या मार्गदर्शनातून विद्यार्थ्यांना भावी उज्वल आयुष्यासाठी अनमोल असे ज्ञान मिळणार आहे.ही मुल्यवर्धित कार्यशाळा आहे.विद्यार्थ्यांचा सर्वांगीण विकास आणि शिक्षणाचा गणात्मक दर्जा उंचावणे या उद्येशातून या कार्यशाळेचे आयोजन करण्यात आले आहे, असे ते म्हणाले.

कार्यशाळेचे प्रास्ताविक डॉ.नंदिनी कोरडे यांनी केले तर आभार डॉ.युवराज सारणीकर यांनी मानले. सूत्रसंचालन प्रा.अक्षता माने यांनी केले. याप्रसंगी डॉ.जमन अनगुलवार, डॉ.आण्णाराव चौगुले,प्रा. श्रेयस माहरकर,डॉ.रवींद्र शिंदे,प्रा. राहल जाधव, डॉ.श्याम इबाते,प्रा.बी. डी.कमाले,प्रा. नवनाथ ढेकणे,प्रा.मनीषा मुंडे,प्रा.भाग्यश्री काळे,प्रा.तांबोळी आदि महाविद्यालयातील प्राध्यापक,विविध प्राचार्य,विद्यार्थी आणि शिक्षकेत्तर कर्मचारी उपस्थित होते.

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#### विद्यार्थ्यांच्या भवितव्यास रसायनशास्त्र विषय महत्त्वाचा

आयोजित केलेली ही कार्यशाळा मार्गदर्शक, स्फूर्तीदायी, रसायनशास्त्र या विषयाचे सखोल असे ज्ञान देणारी आहे. या कार्यशाळेतील तज्ज्ञ मार्गदर्शकांच्या मार्गदर्शनातून विद्यार्थ्यांना भावी उज्ज्वल आयुष्यासाठी अनमोल असे ज्ञान मिळणार आहे. ही मुल्यवर्धित कार्यशाळा आहे. विद्यार्थ्यांचा सर्वांगीण विकास आणि शिक्षणाचा गुणात्मक दर्जा उंचावणे या उद्येशातून या कार्यशाळेचे आयोजन करण्यात आले आहे.असे ते म्हणाले.कार्यशाळेचे प्रास्ताविक डॉ. नंदिनी कोरडे यांनी केले. सूत्रसंचालन प्रा. अक्षता माने यांनी केले. तर आभार डॉ. युवराज सारणीकर यांनी मानले. याप्रसंगी डॉ. जमन अनगुलवार, डॉ. आण्णाराव चौगुले, प्रा.श्रेयस माहुरकर, डॉ. रवींद्र शिंदे, प्रा. राहुल जाधव, डॉ. शाम इबाते, प्रा. बी. डी.कमाले, प्रा. नवनाथ ढेकणे, प्रा. मनीषा मुंडे, प्रा. भाग्यश्री काळे, प्रा. तांबोळी आदी उपस्थित होते.

सायन्ससेस,बेंगलोर यांच्या संयुक्त विद्यमाने दि. २३ ते २५

ऑक्टोंबर दरम्यान आयोजित करण्यात आलेल्या 'मूलभूत रसायनशास्त्र' या विषयावरील तीन दिवसीय कार्यशाळेचे उद्घाटन प्रसंगी डॉ. पा-ठक बोलत होते. कार्यशाळेच्या उअध्यक्षस्थानी प्राचार्य डॉ. जयप्रकाश दरगड होते. याप्रसंगी उपप्राचार्य डॉ. एस. एस. बेल्लाळे, रसायनशास्त्र विभाग प्रमुख डॉ. युवराज सारणीकर, कार्यशाळा समन्वयक डॉ. नंदिनी कोरडे,

तांत्रिक समन्वयक डॉ. रोहिणी शिंदे, प्रा. अमोल सांजेकर यांची प्रमुख उपस्थिती होती.

अध्यक्षीय समारोपात प्राचार्य दरगड म्हणाले की, बी.एस्सी.तृतीय डॉ. ਰਥੰ रसायनशास्त्र विषयाच्या विद्यार्थ्यांसाठी

लातूर: आज करोना काळातही ऑनलाईन शिक्षणामुळे शिक्षणाची दारे उघडी आहेत.

ऑनलाईन शिक्षण हा करोना काळातील शिक्षणासाठीचा योग्य पर्याय आहे. विद्यार्थी हे देशाचे भवितव्य आहेत. विद्यार्थ्यांनी समाजात काळजीपुर्वक वावरावे आणि कठल्याही चकीच्या गोष्टीचे समर्थन करू नये. याचबरोबर रसायनशास्त्रसारखा विषय विद्यार्थ्यांच्या भवितव्यासाठी अत्यंत महत्त्वाचा आहे, त्यात

करिअर करावे,असे प्रतिपादन हैदराबाद विद्यापीठाच्या भौतिकशास्त्र विभागातील माजी प्रो. डॉ. आनंद पाठक यांनी केले.

दयानंद विज्ञान महाविद्यालयातील रसायनशास्त्र विभाग व इंडियन ॲंकॅंडमी ऑफ





रसायनशास्त्र विषयातही विद्यार्थ्यांनी करिअर करावे

डॉ. आनंद पाठक; रसायनशास्त्र विषयावर कार्यशाळा

लात्र, ता. २३ (बातमीदार) : कोरोना काळातही ऑनलाइन शिक्षणामुळे शिक्षणाची दारे उघडी आहेत. ऑनलाइन शिक्षण हा कोरोना काळातील शिक्षणासाठीचा योग्य पर्याय आहे. विद्यार्थी हे देशाचे भवितव्य आहेत. विद्यार्थ्यांनी समाजात काळजीपूर्वक वावरावे, कुठल्याही चकीच्या गोष्टीचे समर्थन करू नये. यासोबत रसायनशास्त्रसारखा विषय विद्यार्थ्यांच्या भवितव्यासाठी अत्यंत महत्त्वाचा अस्न. त्यातही करिअर करावे, असे आवाहन हैदराबाद विद्यापीठाच्या भौतिकशास्त्र विभागाचे माजी प्राध्यापक डॉ. आनंद पाठक यांनी केले.

दयानंद विज्ञान महाविद्यालयातील रसायनशास्त्र विभाग व बेंगलोरच्या इंडियन ॲकडमी ऑफ सायन्ससेसच्या वतीने आयोजित 'मूलभूत रसायनशास्त्र' या विषयावरील तीन दिवसीय कार्यशाळेच्या उद्घाटनप्रसंगी ते बोलत होते. अध्यक्षस्थानी प्राचार्य डॉ. जयप्रकाश दरगड होते. उपप्राचार्य डॉ. एस. एस. बेल्लाळे, रसायनशास्त्र विभाग प्रमुख डॉ. युवराज सारणीकर, कार्यशाळा समन्वयक डॉ. नंदिनी कोरडे, तांत्रिक समन्वयक डॉ. रोहिणी शिंदे व प्रा. अमोल सांजेकर यांची प्रमुख उपस्थिती होती. प्राचार्य डॉ. दरगड यांनी कार्यशाळा मार्गदर्शक व स्फूर्तिदायी तसेच रसायनशास्त्र विषयाचे सखोल असे ज्ञान देणारी असून, कार्यशाळेतील तज्ज्ञ मार्गदर्शकांच्या मार्गदर्शनातून विद्यार्थ्यांना भावी उज्ज्वल आयुष्यासाठी अनमोल ज्ञान मिळणार असल्याचे मांगितले.

कार्यशाळेत डॉ. जमन अनगुलवार, डॉ. आण्णाराव चौगुले, प्रा. श्रेयस माहुरकर, डॉ. रवींद्र शिंदे, प्रा. राहुल जाधव, डॉ. श्याम इबाते, प्रा. बी. डी. कमाले, प्रा. नवनाथ ढेकणे, प्रा. मनीषा मुंडे, प्रा. भाग्यश्री काळे यांच्यासह विविध महाविद्यालयाचे प्राचार्य, प्राध्यापक व विद्यार्थी सहभागी झाले होते. प्रा. अक्षता माने यांनी सूत्रसंचालन केले.

Aurangabad, Latur-Today 24/10/2021 Page No. 1

Coordinator

Dr. Nanda S. Korde Dept. of Chemistry, Dayanand Science college Latur-413512

Principal

Dr.J.S.Dargad

PRINCIPAL Dayanand Science College LATUR



Indian National Science Academy, New Delhi The National Academy of Sciences India Pravagraj SEP/LW/October/2021

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#### Indian Academy of Sciences

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#### The National Academy of

Sciences, India Prayagraj V P Dimri Paramjit Khurana Swapan K Ghosh Gadadhar Misra

#### **Contact Address**

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#### Telephone

91-80-2266 1207 91-80-2266 1210 Fax: 080 2361 6094

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### **SCIENCE ACADEMIES' EDUCATION PROGRAMME**

P.B. No. 8005, C.V. Raman Avenue, Sadashivanagar Post, Bengaluru 560 080 Telephone: (080) 2266 1207, 2266 1210, Fax: (080) 2361 6094 Email: sep@ias.ac.in Website: www.ias.ac.in

18 August 2021

Dr N.S. Korde Asst. Professor Dept. of Chemistry Dayanand Science College Latur 413 512

Sub: Virtual Lecture Workshop on "Fundamental Chemistry" at Dayanand Science College, Latur during 23-25 October 2021.

Dear Madam,

Thank you for submitting the proposal for conducting the virtual Lecture Workshop on "Fundamental Chemistry" at Dayanand Science College, Latur during 23-25 October 2021.. The budget of Rs. 41,500/- (Rupees forty-one thousand and five hundred only, capital items ie., webcam, microphone etc. will not be paid by the Academy) has been approved by the Academy. Please note that the plat form charges and incidental charges are limited to Rs.I0,000 and Rs.3000/- respectively. Honorarium for supporting staff is not applicable for virtual workshops.

After the completion of the Workshop we need the following:

- I. a brief report of the workshop
- 2. time-table of the workshop
- 3 Statement of receipts and payments certified by finance personnel of your institution or a Chartered accountant.
- 4. Detailed statement of accounts (in the prescribed format)
- along with copies of vouchers/bills.
- 5. Utilization certificate as per GFR 19A (enclosed)

Please settle all the claims at your end and send us the final expenditure statement for releasing the amount.

We wish the Workshop all success.

With regards,

SA C S Ravi Kumar

Coordinator, Science Education Programmes

Please find below a note about the 75th year of Indian independence (Azadi ka Amrut Mahotsav). We would like you to include this note in all the publication material about the workshop. You might even consider displaying this prominently at the venue.

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



#### UNIVERSITY OF HYDERABAD SCHOOL OF PHYSICS CENTRAL UNIVERSITY P.O., HYDERABAD 500 046, INDIA

Prof Anand P Pathak F Inst. P, C Phys. : F N A Sc

08Aug 2021

To Dr J S Dargad Principal, Dayanand Science College LATUR , Maharashtra

Dear Dr Dargad

Thank you for your letter dated 04<sup>th</sup> August 2021, asking me to be the convener for three days short duration Science Academies virtual Lecture workshop on Fundamental Chemistry for B Sc III year students during 23-25 Oct 2021. I am glad to give my consent and accept the assignment.

Appail

Anand P Pathak

 Phones : (office) +91 40 2313 4316 :: (Res.) 2301 0747 Fax : +91 40 2301 0227

 Email appsp@uohyd.ernet.in, anandp5@yahoo.com, anand.pathak@uohyd.ac.in

 Home page <a href="http://sop.uohyd.ac.in/~appsp/">http://sop.uohyd.ac.in/~appsp/</a>

|            |   |                           | (23-25th   | 1.                       |  |                          | Period  |   |       |                   |                              |                               |             |
|------------|---|---------------------------|--|--------------------------|--|--------------------------|---|---|-------|-------------------|------------------------------|-------------------------------|-------------|
| Date       | <u>Period</u><br><u>I</u><br>10:00<br>am<br>-<br>11:30                                  | 11:30<br>am<br>-<br>11:45 | <u>Period</u><br><u>II</u><br>11:45<br>am<br>-<br>1:15 | 1:15<br>pm<br>           | Period<br>III<br>2:15<br>pm<br>-<br>3:45   | 3:45<br>pm<br>-<br>4:00  | <u>Period</u><br><u>IV</u><br>4:00<br>pm<br>-<br>5:30<br>pm | 5:30<br>pm<br>-<br>6:00<br>pm                                 |       |                   |                              |                               |             |
|            | am  | am                        | pm<br>Chemical Kinetics                                | pm                       | pm<br>Chemical Kinetics  | pm                       | Nanomaterial  |   |       |                   |                              |                               |             |
| 23/102021  | Nanomaterial Chemistry<br>Prof. Anand Pathak  |                           | Dr. N.S.Korde  | Lunch                    | Dr. N.S.Korde<br>Coordination chemistry  | Tea<br>Brea              | Chemistry<br>Prof. Anand<br>Pathak<br>Bio-organic           | •   |       |                   |                              |                               |             |
| 24/10/2021 | Bio-organic chemistry<br>Prof. Nattu A. A   | Interval                  | chemistry<br>Prof. B. C.                               | chemistry<br>Prof. B. C. | chemistry  | chemistry<br>Prof. B. C. | Break   | Break   | Втеак | Prof. B. C. Khade | k chemistry<br>Prof. Nattu A | chemistry<br>Prof. Nattu A. A | Valedictory |
| 25/10/2021 | Short lived species:<br>Characterization and<br>Dynamics<br><b>Prof. Anunay Samanta</b> |                           | Chem. Biology<br>Prof. Musty J.<br>Swamy               |                          | Fluorescence Spectroscopy:<br>Fundamentals and some<br>applications<br><b>Prof. Anunay Samanta</b> |                          | Chem. Biology<br>Prof. Musty J.<br>Swamy                    | function<br>S<br>PRINCIPAL<br>PRINCIPAL<br>PRINCIPAL<br>ATTUR |       |                   |                              |                               |             |

| List o | f Resource Person wit  | h Topic   |  |
|--------|--|---|--|
| Q      | Prof. Anand P. Pathak<br>F Inst. P (London), F Inst. P, C<br>Phys. F N A Sc<br>School of Physics,<br>University of Hyderabad-<br>500046 Email:<br>anandp5@yahoo.com                            | Nanomaterial<br>Chemistry                               |  |
| 1 A D  | Prof. A. A. Natu<br>IISER Pune<br>Email: <u>aanatu@iiser.pune.ac.in</u>  | Bio-organic<br>Chemistry                                |  |
|        | <b>Prof. Musti J. Swamy</b><br>F A Sc, F N A Sc<br>Scholar of Chemistry<br>University of Hyderabad<br>Hyderabad -500046<br>Email: <u>mjswamy@uohyd.ac.in</u>                                   | Chemical<br>Biology                                     |  |
|        | Prof. Anunay Samanta<br>F A Sc, F N A Sc, F N A<br>J.C.Bose National Fellow<br>School of Chemistry<br>University of Hyderabad<br>Hyderabad -500046<br>Email: <u>anunay@uohyd.ac.in</u>         | Short lived<br>species,<br>Fluorescence<br>Spectroscopy |  |
| æ,     | Prof. Bhimrao C. Khade<br>Head of Dept. (Chemistry)<br>Dnyanopasak College,<br>Parbhani-431401<br>Email: <u>bckhade@yahoo.com</u>  | Coordination<br>Chemistry                               |  |
| G      | Dr. Nanda Sheshrao Korde<br>(Member, Board of Studies in<br>Chemistry,SRTMU, Nanded)<br>Dept of Chemistry<br>Dayanand Science College,<br>Latur - 413512<br>Email:<br>nandineekorde0@gmail.com | Chemical<br>Kinetics                                    |  |

## CHIEF PATRONS

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Organizing Chair Dr. Jaiprakash Dargad , Principal -Dayanand Science College, Latur

**Co-ordinator** Dr. Nanda Sheshrao Korde

Convenor Prof. Anand P. Pathak F Inst. P (London), F Inst. P, C Phys. F N A Sc School of Physics, University of Hyderabad -500046

## Organization Committee

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 Dr. R. S. Shinde

 (HoD, Dept. of Chem, DSCL)
 Dr. S. S. Mahurkar

 Dr. S. N. Ibatte
 Dr. A. M. Chougule

 Dr. J. A. Angulwar
 Mr. R. K. Jadhav

## **Registration Link**

https://bit.ly/3lTuzJ7 Last Date of Registration No Registration fees Only 100 Seats available



Dayanand Education Society's DYANAND SCIENCE COLLEGE, LATUR (UGC-CPE,DST-FIST,NAAC Re-Accredited "A "Grade College, Best College Award by SRTMUN, Best Principal Award by SRTMUN) Organizing Virtual Lecture Workshop on Fundamental Chemistry (For B.Sc III Yr Chemistry Students)

23-25th October 2021





Indian Academy of Sciences, Bengaluru Indian National Science Academy, New Delhi The National Academy of Sciences India, Prayagraj

## ABOUT THE INSTITUTION & COLLEGE

Dayanand Arts, Science and Commerce college established in 1961 and separated in three different colleges in 1967. Now "Dayanand Science College, Latur" is one of the well-known and reputed Science College in Maharashtra State. Initially, the college offered under graduate (UG) course with the basic subjects like Physics, Chemistry, Mathematics, Botany and Zoology. Keeping the pace with time and sensing the needs of the students, applied subjects like Industrial Chemistry, Microbiology, Fishery Science and Electronics were introduced.

Post Graduate (PG) courses in Chemistry and microbiology introduced in 1992 and now a days college introduced PG courses in Physics, Computer Science, Biotechnology, Mathematics, Botany and Zoology. Our college runs Ph.D. courses (In Chemistry, Physics, Mathematics, Microbiology) and different COC and Value added courses.

Due to the quality education, the college received different National and International awards and schemes. In the year 2012, our institution received Shahu-Phule-Ambedkar Award by Maharashtra State Government. In 2013, the college received DST- FIST recognition. In the year 2014, College had been awarded "A" grade in NAAC Accreditation 2nd cycle with CGPA 3.14 out of 4.00. In the year 2015, College received Best College (Urban) Award from SRTM University, Nanded. In the year 2016, College has been awarded "College with Potential for Excellence Award (CPE)" by UGC and able to receive grant of Rs.5 Crore in three phases. Our Principal Dr. J.S. Dargad has been recently awarded by "Best Principal Award" by SRTM University, Nanded. The college is well known about the development of "Latur pattern of Education" in the state of Maharashtra for the meritorious pattern.

In last five years college organized 15 Inspire camps, 3 refresher courses, 3 International, 17 National, 14 State/ Regional conferences and workshops. Dayanand Science college having 22 acres fully Eco-Friendly Campus with solar system. Highly Qualified Teaching Faculty is working in this college. Digital Classrooms and Laboratory facilities are available with Wi-Fi campus.

### Mission

- To establish and sustain a Meritorious Dayanand Pattern striving for excellence
- To enlighten students of rural area and empower them to contribute their services for national development

## **GOALS AND OBJECTIVES**

- To provide quality academic environment for effective teaching, learning and research in basic sciences
- To develop a scientific temperament through a strong academic foundation coupled with practical exercises
- To acquaint students with modern technology, advance research and its applications to enable them to face global challenges
- To motivate students for acquiring scientific skills and creativity
- To collaborate with stakeholders of higher education for quality science education and research
- To create socio-environmental awareness among students and masses around
- To build multidimensional personality of students

## ABOUT THE DEPARTMENT

- UG as well as PG courses
- SET/ NET cell
- Students got university gold medals in UG as well as in PG.
- Available instruments such as:
  - 1. Infrared Spectrophotometer -FTIR-7600 (lambda scientific)
  - PC based double beam spectrophotometer 2202 (systronic)
  - 3. Chemito UV 2100
  - 4. Gas Chromatography (GC 8204)
  - 5. Digital muffle furnace
  - 6. Rota evaporator etc.

## **OBJECTIVES OF THE WORKSHOP**

- To give the opportunity to B. Sc. T.Y. students to learn about Fundamental Chemistry in greater detail than it is possible during their regular classes as part of curriculum.
- To develop more interest in chemistry.
- To increase numerical problem-solving skills than memorization.
- To motivate these students to complete their PG (M.Sc.) in chemistry.
- To develop greater interest for research in chemistry after completion of UG/PG.
  - \_\_\_\_\_



Dayanand Education Society's

## DAYANAND SCIENCE COLLEGE, LATUR

(UGC-CPE,DST-FIST,NAAC Re-Accredited "A "Grade College, Best College Award by SRTMUN, Best Principal Award by SRTMUN) Organized Science Academies' Virtual Lecture Workshop

On

"FUNDAMENTAL CHEMISTRY" (For B.Sc. III Chemistry Students) (Ref. No: SEP/LW/October/2021 Date: 18/08/2021) In collaboration with

Indian Academy of Sciences, Bengaluru Indian National Science Academy, New Delhi The National Academy of Sciences India, Prayagraj

# Certificate of Participation

This is to certify that Mr/Miss Landge Dhanashree of Dnyanopasak Mahavidyalaya, Parbhani actively participated in Virtual Lecture Workshop on "FUNDAMENTAL CHEMISTRY" for B.Sc. III Chemistry Students organized by Department of Chemistry, Dayanand Science college,Latur on 23<sup>rd</sup> to 25<sup>th</sup> October, 2021.



Coordinator Dr.N.S. Korde

**Prof. Anand Pathak** 

Principal Dr.J.S.Dargad



Dayanand Education Society's

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## DAYANAND SCIENCE COLLEGE, LATUR

(UGC-CPE,DST-FIST,NAAC Re-Accredited "A "Grade College, Best College Award by SRTMUN, Best Principal Award by SRTMUN) Organized Science Academies' Virtual Lecture Workshop

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Indian Academy of Sciences, Bengaluru Indian National Science Academy, New Delhi The National Academy of Sciences India, Prayagraj

# Certificate of Participation

This is to certify that Mr/Miss Pawar Abhijeet of shri hawagiswami collage udgir actively participated in Virtual Lecture Workshop on "FUNDAMENTAL CHEMISTRY" for B.Sc. III Chemistry Students organized by Department of Chemistry, Dayanand Science college,Latur on 23<sup>rd</sup> to 25<sup>th</sup> October, 2021.

Coordinator

Dr.N.S. Korde

Principal

Prof. Anand Pathak

Dr.J.S.Dargad

## **Name and Address of Mentors**

| Prof. Anand P.Pathak                            |  |
|---|--|
| F Inst. P (London), F Inst. P, C Phys. F N A Sc |  |
| School of Physics,                              | 079-723  |
| University of Hyderabad                         | =  |
| Hyderabad-500046                                |  |
| Email:anandp5@yahoo.com                         |  |
| Prof. Arvind A.Natu                             |  |
| IISER   |  |
| Pune  |  |
| Email:aanatu@iiser.pune.ac.in                   |  |
| Prof. Musti J. Swamy                            | and the second s |
| F A Sc, F N A Sc                                |  |
| School of Chemistry                             |  |
| University of Hyderabad                         | A A A  |
| Hyderabad-500046                                |  |
| Email:mjswamy@uohyd.ac.in                       |  |
| Prof. AnunaySamanta                             |  |
| F A Sc, F N A Sc, F NA                          | (ac)   |
| J.C.Bose National Fellow                        | 100 Lan  |
| School of Chemistry                             |  |
| University of Hyderabad                         |  |
| Hyderabad -500046                               |  |
| Email:anunay@uohyd.ac.in                        |  |
| Prof. Bhimrao C. Khade                          |  |
| Head of Dept. (Chemistry)                       | 125  |
| Dnyanopasak College,                            |  |
| Parbhani-431401                                 | and the second second  |
| Email:bckhade@yahoo.com                         |  |
| Dr. Nanda Sheshrao Korde                        |  |
| (Member, Board of Studies in Chemistry, SRTMU,  |  |
| Nanded)   |  |
| Dept of Chemistry                               |  |
| Dayanand Science College,                       |  |
| Latur -413512                                   |  |
| Email: nandineekorde0@gmail.com                 |  |

| Attendance list of the student |  |                                     |  |  |  |
|--------------------------------|--|-------------------------------------|--|--|--|
|                                | Lecture Workshop On Fundamental Chemistry              |                                     |  |  |  |
|                                | Date: 23 <sup>rd</sup> - 25 <sup>th</sup> October 2021 |                                     |  |  |  |
| Sr.                            | Name of the student                                    | Name of the institition             |  |  |  |
| No.                            |  |                                     |  |  |  |
| 1                              | Aakash Singare   | Shri. Kumarswami Mahavidyalaya Ausa |  |  |  |
| 2                              | Landge Dhanashree Madhavrao                            | DSM College Parbhani                |  |  |  |
| 3                              | SHINDE DIPAK MANIKRAO                                  | Dnyanopasak mahavidyalay Parbhani   |  |  |  |
| 4                              | Govind Siral   | DSM COLLEGE PARBHANI                |  |  |  |
| 5                              | Waghmare shubham attam                                 | DSM college parbhani                |  |  |  |
| 6                              | Landage Pooja Vijaykumar                               | SRTMUN fundamental chemistry        |  |  |  |
| 7                              | Shaikh Nishad Shaikh Mahebub                           | D.S.M College Parbhani              |  |  |  |
| 8                              | Nikita anant suryawanshi                               | Dayanand science college latur      |  |  |  |
| 9                              | Ambhure Savita Ashok                                   | DSM college parbhani                |  |  |  |
| 10                             | Pratiksha Laxman More                                  | Dayanand science College latur      |  |  |  |
| 11                             | Kendre Suchita Madhav                                  | Dayanand science college Latur      |  |  |  |
| 12                             | Reshma gore  | Dayanand science college latur      |  |  |  |
| 13                             | Kadam Satyesh Bhagwan                                  | DSM College parbhani                |  |  |  |
| 14                             | Mule Rutuja Rajkumar                                   | Dayanand science college latur      |  |  |  |
| 15                             | JANARDHAN NANDKUMAR BHATANE                            | DAYANAMD SCIENCE COLLEGE ,LATUR     |  |  |  |
| 16                             | Kadam Hanuman Balasaheb                                | DSM College Parbhani                |  |  |  |
| 17                             | Gutte Anuja Gopalrao                                   | Rajshri shahu Mahavidyalaya latur   |  |  |  |
| 18                             | Pawar omkar rajendra                                   | Dayanand Science College Latur      |  |  |  |
| 19                             | Pooja Sanjit Jadhav                                    | Dayanand Science College Latur      |  |  |  |
| 20                             | Sayyad Lajina Sayyad Musa                              | Dhyanopasak mahavidyalay Parbhani   |  |  |  |
| 21                             | Shinde Dipali Balaji                                   | Dyanopasak college                  |  |  |  |
| 22                             | Samale Nikita Anil                                     | DSM college Parbhani                |  |  |  |
| 23                             | Shastri Apoorva Anil                                   | Dayanand science Clg latur          |  |  |  |
| 24                             | Anuja Ghumbre  | DSM college Parbhani Maharashtra    |  |  |  |
| 25                             | kale Shridevi Laxman                                   | Dayanand science college latur      |  |  |  |
| 26                             | Chavan Sachchidanand shyam                             | Dayanand science College latur      |  |  |  |
| 27                             | Anuradha harishchandra vibhute                         | Dayanand science college latur      |  |  |  |
| 28                             | Aboli dhondiram kamble                                 | Dayanand science College latur      |  |  |  |
| 29                             | Shirure Nishant Suryakant                              | Dayanand Science College,Latur      |  |  |  |
| 30                             | Kshitija lahu waghmare                                 | Dayanand science collage latur      |  |  |  |
| 31                             | Karuna santoshrao Deshpande                            | Dayanand science College latur      |  |  |  |
| 32                             | Vaishnavi bhujang kamble                               | Dayanand science College Latur      |  |  |  |
| 33                             | Sana Shafi Gadiwan                                     | Dayanand science College, Latur     |  |  |  |

| 34 | JATAL NAGESH TRIMBAK         | DSM College Parbhani                      |
|----|------------------------------|---|
| 35 | Barse Anuradha Tukaram       | D.S.M college parbhani                    |
| 36 | Sayyad Lajina Sayyad Musa    | D S M college parbhani                    |
| 37 | Komal Raosaheb Kute          | DSM COLLEGE PARBHANI                      |
| 38 | GAIKWAD MOHIT MAHADEV        | Dayanand science college, latur           |
| 39 | Priya sadashiv chavan        | dayanand science College Latur            |
| 40 | Chetke virbhadra Rameshwar   | Dayanand sci College latur                |
| 41 | Vyas vaishnavi sanjay        | Dayanand science college latur            |
| 42 | Deshmukh shamal Chandrakant  | Dnynopasak shikshan mandal parbhani       |
| 43 | Jogdand Sandhyarani Satish   | Shivaji College, Renapur                  |
| 44 | Qureshi Humera Abdulrauf.    | Shivaji College Renapur.                  |
| 45 | Bajrang Karad                | Shahu college latur                       |
| 46 | Shaikh shireen mohammed      | Rajarshi shahu mahavidyalay, latur        |
| 47 | More Madhav Narsing          | Kai. Rashika Mahavidyalaya, Deoni         |
| 48 | Kukade Nitin Ashok           | Shivaji Mahavidhyalaya Renapur            |
| 49 | dhoble ganesh jaysing        | shivaji mahavidyalay renapur              |
| 50 | Vitthal panchal              | Shivaji mahavidhyalay renapur             |
| 51 | Maniyar saba nasim           | Shivaji mahavidyalay renapur              |
| 52 | Shaikh shahana farid         | Shivaji collage renapur                   |
|    |                              | Shree kumarswami college                  |
| 53 | Patil Aditi ramchandra       | Ausa.                                     |
|    |                              | Shree kumarswami college                  |
| 54 | Varekar Pratibha dnyneshvar  | Ausa                                      |
|    |                              | Nagnath Arts Commerce and Science College |
| 55 | Rathod Vijay Baburao         | Aundha                                    |
| 56 | Ganesh Gulabrao Jadhav       | Mahatma Basweshwar Mahavidyalaya , Latur. |
| 57 | Jadhav prashant jayprakash   | Mahatma basweshwar collage latur          |
| 58 | Ambegave Kapil Rajendra      | Dayanand science College Latur            |
| 59 | Dhabekar Rupali Ramhari      | Dayanand science college ,latur           |
| 60 | Kshirsagar puja sopan        | Shankarrav chavan mahavidyalya aardhapur  |
| 61 | Sayyed Sadiya Begum Rahimali | Shivaji Collage, Renapur.                 |
| 62 | Kulkarni keyur krishna       | Dayanand science college latur            |
| 63 | Wagh Shreya Uttamkumar       | Dayanand science college latur            |
| 64 | Gadekar shushama ajay        | Aazad Mahavidyalaya ausa                  |
| 65 | Satish Ramesh Pawar          | Shivaji Mahavidyalaya, Renapurr           |
| 66 | Parit Pooja Vasantrao        | Dayanand Science College,Latur            |
| 67 | SURAJ RAJKUMAR BARAMADE      | Shivaji college renapur                   |
| 68 | Sapte vaishnavi Gunderao     | Shivaji mahavidyalaya udgir               |
| 69 | Rani Shyam Bhale             | Shivaji mahavidyalaya Udgir               |

| 70  | Shradha Dilip Potdar               | Shivneri Mahavidyalaya, Shirur Anantpal    |
|-----|------------------------------------|--|
| 71  | Madiha Khanam Musa Khan            | Shivaji Mahavidyalaya Udgir                |
| 72  | Sontakke Dropadi Kishan            | Shivneri mahavidhyalaya shirur anantpal    |
| 73  | Devarshe Shradha Ganpatrao         | Shivaji Mahavidyalay Udgir                 |
| 74  | Mangesh Balaji Somase              | Shivaji Mahavidyala, Udgir                 |
| 75  | Dhanshette Akanksha suryakant      | Shivaji mahavidyalay, udgir.               |
| 76  | More Shankar venkatrao             | Shivaji Mahavidyalaya udgir                |
| 77  | Kale Pratiksha Gyanbarao           | Narayanrao Waghmare college Ak. Balapur    |
| 78  | Rutuja Rajesh Patange              | Narayan waghmare college Akhada balapur    |
| 79  | Poonam prabhakar sonale            | Narayan Waghmare college Akada Balapur     |
| 80  | Upare vaishnavi vitthalrao         | Narayanrao Waghmare Mahavidya ak. Balapur  |
|     |                                    | Narayanrao Waghmare MhaVidhyalaya AK       |
| 81  | Nirmal Sushma sunil                | Badlapur                                   |
| 82  | Bayas Ajitsinh Surendrasinh        | Narayanrao Waghmare College Ak. BALAPUR    |
| 83  | Patange Vishal Rajkumar            | N W College Ak Balapur                     |
| 84  | Avinash Devidas Bondhare           | Narayanrao Waghmare Ak.Balapur             |
| 85  | Krishna Prabhakar Ingole           | N.W COLLEGE AKHADA BALAPUR                 |
|     |                                    | N W College                                |
| 86  | Patange Vishal Rajkumar            | Ak Balapur                                 |
| 87  | Bayas Ajitsinh Surendrasinh        | Narayanrao Waghmare College Ak. Balapur    |
| 88  | Shridhar pandurangrav patange      | Narayan vaghmare coolej akakhada balapur   |
| 89  | Shaikh shaista Anam MD khaja pasha | Narayan Rao WaghmareCollage                |
|     |                                    | Naraynrao waghmare college                 |
| 90  | Kalyankar Sandhya Sakharam         | Ak.Balapur                                 |
| 91  | Sapte Vaishnavi Gunderao           | Shivaji Mahavidyalaya Udgir                |
| 92  | Bhagawt Prakash Mudhol             | NW College Ak Balapur                      |
| 93  | Waghmare vaishnavi purbhaji        | Narayanrao waghmare college Ak Balapur     |
| 94  | Dawangave sneha balaji             | Shivneri mahavidyalaya shirur anantpal     |
| 95  | Prathmesh patange                  | Narayanrao waghmare ak. Balapur            |
| 96  | Rutuja Patange                     | Narayan waghmare college Akhada balapur    |
| 97  | Sandip Rameshrao patange           | N.W college .akhada balapur                |
| 98  | Kashide Pooja gajanan              | N.W.collage ak .balapur                    |
| 99  | Kale Arti Dnyaneshwar              | Narayanrao Waghmare college Akhada Balapur |
| 100 | Upare sandhya sahebrao             | Narayanrao waghamare college ak balapur    |
| 101 | Vaibhav Subhashrao Khandare        | Narayanrao Waghmare college akhada balapur |
| 102 | Mundkar shivshankar                | Shri Havagi Swami mahavidyalaya udgir      |
| 103 | Khede Swati Dattatreya             | Shri Havgiswami college Udgir              |
| 104 | Ghuge Gajanan Ashok                | Shri Havgiswami college Udgir              |
| 105 | Saware haridas shamrao             | Shri havgiswami collage udgir              |

| 6 Gaikwa    | d Rohlt Millind         | Shri hawgiswami mahavidhyalay, Udgir | 7249822028  |
|-------------|-------------------------|--------------------------------------|-------------|
| 7 Kamble    | shivaji Kashinath       | Shri Hawagiswami college Udgir       | 9665481253  |
| 08 Gurush   | ant chaudhari           | Sri hawagisawmi collage udgir        | 9604533878  |
| 09 Himans   | shu Devkumar somwanshi  | Shri Hawagiswami COLLEGE UDGIR       | 93255 15389 |
| 10 Yash ja  | adhav                   | Shri hawagiswami college udgir       | 9561422282  |
| 11 Patil st | hivkanya Ramling        | Havgiswami college udgir             | 9673808835  |
| 12 Khede    | Swati Dattatreya        | Havgiswami college Udgir             | 8282973817  |
| 13 Narha    | re shilpa vitthal       | Havgiswami college udgir             | 9699950263  |
| 14 Poorni   | ima Prashant deshmukh   | Havgiswami college Udgir             | 8298201657  |
| 115 Gavha   | ane Pranita yadavrao    | Havagiswami college                  | 8767937820  |
| 116 Gurus   | hant chaudhari          | Shri hawagisawmi vidalaya udgir      | 9604533878  |
| 117 Wadg    | aonkar yogini dattatray | Shri Hawgiswami mahavidyalay udgir   | 7498532544  |
| 118 Kapil   | Sonwale                 | Dayanand science college latur       | 9370438932  |
| 119 Naga    | palle swapnali Nagnath  | Hawgiswami mahavidyalay udgir        | 8830838301  |
| 120 Pratik  | ksha umakant hippalge   | Havagiswami college                  | 9148542733  |
| 121 Sush    | ma sanjay patange       | NW college AK balapur                | 9021924645  |
| 122 Sami    | rin. Mehtab. Kasar      | Shivaji mahavidyalay udgir           | 7798428983  |
| 123 Priya   | nka Gulabrao Deshmukh   | N W college AK balapur               | 8767192827  |
|             | de Pooja Babruvan       | Shivaji mahavidyalay udgir           | 9370047713  |
|             | ar Abhijeet             | shri hawagiswami collage udgir       | 9890938343  |

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Coordinator Dr.N.S.Korde

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Principal

Dr.J.S.Dargad

PRINCIPAL Dayanand Science College LATUR

## Dayanand Science College, Latur. Department of Chemistry Events organized during the Academic year 2021-22

## (Conference/Workshop/Symposium/Seminar/Guest Lecture/Special Day Celebration/open day/Exhibition/welcome function/ farewell function/Sport activates /NSS activates/ NCC activates/ Portfolio activates etc.)

| 1.                                | Name of the Department               | : Chemistry                                       |
|-----------------------------------|--------------------------------------|---|
| 2.                                | Complete name/ title of the Activity | : Fundamental chemistry workshop                  |
|                                   | Dates or Duration (fromto)           | :23 <sup>rd</sup> -25 <sup>th</sup> October 2021  |
| 4.                                | Venue of the Event                   | : Dayanand Science College, Latur                 |
| 5.Sponsor/Collaborations (if any) |                                      | : Indian Academy of Sciences, Bengaluru           |
|                                   |                                      | Indian National Science Academy, New Delhi        |
|                                   |                                      | The National Academy of Sciences India, Prayagraj |

6. Level of the event (encircle) : State

International / National / State / University / District / College / Department etc.

7. Purpose / aim / objective and outcome of the event:

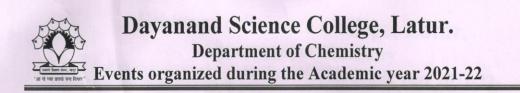
Objectives:

- To give the opportunity to B. Sc.T.Y. students to learn about Fundamental Chemistry in greater detail than it is possible during their regular classes as part of curriculum.
- To develop more interest in chemistry.
- To increase numerical problem-solving skills than memorization

#### Outcomes:

- This workshop helped the students to learn and understand the impact of the chemistry in societal and environmental context and demonstrate the knowledge & need for sustainable development.
- · This workshop assists participant students to communicate the views and opinion
- This workshop provided opportunity to the students to interact with Sr. Scientists, Researchers and Professors
- 8. Beneficiaries / participants (Type/number, etc.):
  - Total of 125 students, 06 Resource Persons
- 9. Other major staff / student / Institution involved in the organization of the activity:

Activities of Department / College during the year -2021-22



• Principal, Vice-Principal, Head of Department, Coordinator, Co-cordinator

10. Any other information / comment / qualitative remarks:

• This workshop boosts the students to apply the knowledge of chemistry to the solution of complex chemistry problems and Participant students learned new techniques to enhance knowledge

11. Photographs (with captions) submitted (number) :

▶ 06

12. Evidence produced (Certificate, letters, newspaper cuttings etc.)

- Sanction Letters from Indian academy of Sciences, Bengaluru
- Sample certificate of Participation
- Sample certificate of Participation
- Brochure of workshop
- News paper cutting



13. Name and Signature of Coordinator: Dr. Nanda Sheshrao Korde

1 & U.G. In Chemistry Devanand Science College LATUR

**IQAC-Coordinator IQAC** - Coordinator Dayanand Science College, Latur, M.S. (INDIA)

Principal Principal Dayanand Science College LATUR 413512