



Report

Science Academies' Lecture Workshop on "Basic Chemistry" (5th -6th March 2024)

in sponsorship of

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



[Ref: SEP/LW/Feb/2024, Date: 27.02 2024]

Organized By
Dayanand science college, Latur-413512
Maharashtra, India



REPORT

Science Academies' Lecture Workshop was organized from 5th to 6th March, 2024 at Dayanand Science college, Latur in sponsorship of Indian Academy of Sciences (Bengaluru), Indian National Science Academy (New Delhi) and The National Academy of Sciences, India (Prayagraj) entitled **“Basic Chemistry”**.

This was a two day Lecture Workshop Programme where various related topics were discussed in detail by eminent educationists, academicians and a very beneficial academic environment was experienced by the participants.

The first technical session was started on 5th March 2024 at 10:00am to 11:15am on the topic **Colligative Properties**. The Resource Person was **Dr.Nanda S.Korde**, Associate Professor, Dayanand Science college, Latur discussed about Osmotic Pressure, Relative Lowering of vapour pressure, Elevation in boiling point and Depression in freezing point.





The formal Inaugural Ceremony was started on 5th March 2024 at 11:15am with the Lamp Lightening ceremony followed by Saraswati Poojan. The dignitaries were welcomed by the **Principal Dr. Jaiprakash Dargad** and presented shawl and bouquet of flower. In his welcome address he mentioned that participant students must gain the updated knowledge of Basic Chemistry from Resource Person, Academicians and Scientists which will be useful to society.

Lecture Workshop Coordinator, **Dr. N.S.Korde**, Associate Professor, Dayanand Science college, Latur presented introductory speech and explained the need and importance of this Workshop on Basic Chemistry .

Chief Guest Professor Anand Pathak, F N A Sc, F Inst P (London), C Phys, School of Physics, University of Hyderabad, Hyderabad spoke in his key note address that Indian Culture is the BEST culture among the world. Student must respect to their parents and teachers and be behave very gentle and polite like Bharatnaratna A.P.J.Kalam. Inauguration session ended with vote of thanks by Mr. Rahul Jadhav, assistant Professor, Department of Industrial Chemistry, Dayanand Science college, Latur.





The second technical session was on the topic Numerical Solving session at 11:30am- 12:45pm. The guest speaker was **Dr. N.S.Korde**, Associate Professor, Dayanand Science college, Latur. She solved numerical on the topics relative lowering of vapour pressure, elevation in boiling point and depression in freezing point. She discussed about how to enhance numerical reasoning skills for success. She also told that regular practice is key to improve numerical reasoning skill. The more you practice, the more familiar

you become with different types of questions. Student participants also tried to solve numerical.



At 12:45pm -2:00pm Lunch break.



The third and fourth technical sessions were conducted by guest speaker Prof. Anand Pathak, F N A Sc, F Inst P (London), C Phys, School of Physics, University of Hyderabad, Hyderabad on the topic Nano-material Chemistry. He taught about the properties of nano-materials, principles of nano-chemistry and various applications of nano-materials. After his sessions some students took photos with him. Overall all sessions are very informative and knowledgeable.



The first and second technical sessions were started on 6th March 2024 at 10:00am to 12:45pm on the topic Bioinorganic Chemistry and Guest Speaker was **Dr. Bhimrao C. Khade**, Professor and Head of Dept. (Chemistry), Dnyanopasak College, Parbhani . He taught about essentials and trace

elements in biological processes, metalloporphyrine with special reference to hemoglobin & myoglobin & nitrogen fixation.





In this session various questions were raised by participants on the topic which made the discussion very lively.

At 12:45pm -2:00pm Lunch break





On the same day third and fourth sessions were held by **Soma Venugopal Rao**, FSPIE, FNASc, FRSC, F.Inst.P, FIAAM, Senior Professor, School of Physics & ACRHEM University of Hyderabad online and he discussed about **Nanomaterials & Raman Techniques for Defence Applications**. He gave information about nanomaterials, Raman effect, different applications of Raman effect & applications of Raman Techniques in defence.





Workshop was concluded with a valedictory ceremony. **Valedictory function** was started on 5:00pm and chaired by Professor Dr. Anand Pathak and Dr.S.S.Bellale, Vice-Principal was the president of valedictory function. In this function participants gave very good feedback. The president of the function Vice-Principal Dr. S.S.Bellale appreciated the coordinator for conducting such intellectual workshop for the benefit of young scholars and students and also congratulated the participants.







In valedictory programme some of the participants were given Participation certificates by the hands of Convener Prof. Anand Pathak and Vice-Principal Dr.S.S.Bellale and Dr. Y.P. Sarnikar, HOD of department.



Dr. Nanda Korde, Workshop Coordinator proposed vote of thanks. In the end all assembled arose to sing the National Anthem.



Conclusions and outcomes of Lecture Workshop:

In this workshop total 154 students participate among them 112 students were from Dayanand Science college, Latur, 01 from Mahatma Basweshwar Mahavidyaaya, Latur, 05 from Shri Kumarswamy Mahavidyalaya, Ausa, 06 from Rajarshi Shahu Mahavisyalaya, Latur, 26 from Sanjeevani Mahavidyalaya, Chapoli, 03 from Azad Mahavidyalaya, Ausa and 01 from Yogeshwari Mahavidyalaya, Ambajogai.

In the concluding session the feedbacks were given by participants. They told that the workshop was informative and helpful to them to learn recent knowledge in basic chemistry. Resource Persons shared their academic rich knowledge and expertise with them so every one of them has fruitful and meaningful exchanges in them. Many participants requested that similar workshops must organize in various colleges in this region.

Outcomes:

- ❖ This Lecture workshop was a very worthwhile for students to learn the different aspects and to increase the scientific temper in the students.
- ❖ The Lecture workshop was informative and helpful to learn recent inventions in the region of chemical sciences.
- ❖ This workshop offered a space for discussion and problem-solving and developed more interest in chemistry.
- ❖ This Lecture Workshop motivated these students to complete their PG (M.Sc.) and research work in chemistry.

मूलभूत रसायनशास्त्राचे ज्ञान वृद्धिंगत करण्याची आवश्यकता - प्रा. आनंद पाठक

महाराष्ट्र विप्रेक्ष/मातृ जगाचा पाठीवर भारतीय संस्कृती ही सर्वश्रेष्ठ असून प्रत्येक विद्यार्थ्यांनी 'मातृदेवी भव,पितृदेवो भव आणि आचार्य देवोभव' या शिकवणीप्रमाणे जीवनात आचरण केले पाहिजे. आई-वडील मुलांनाच आदर करीत आहेत त्या डॉ.ए.पी.जे.अब्दुल कलाम यांच्याप्रमाणे विनम्रतेने वागले पाहिजे. पीएच.डी.पदवी प्राप्त केली म्हणजे सर्व शिक्षण संपले असे नाही.कारण शिक्षण ही निरंतर चालणारी प्रक्रिया आहे.म्हणूनच विद्यार्थ्यांनी मूलभूत रसायनशास्त्राचे अध्यापन ज्ञान जमनीत-जस्त वृद्धिंगत करण्याचे आवश्यकता आहे.असे प्रतिपादन हैदराबाद विद्यापीठातील स्कूल ऑफ फिजिक्सचे माजी प्रा.आनंद पाठक यांनी केले.

दयानंद विज्ञान महाविद्यालयातील 'मूलभूत रसायनशास्त्र' या विषयावरील दोन दिवसीय कार्यशाळेचे उद्घाटन

दयानंद विज्ञान महाविद्यालयात अखंडमी ऑफ सायन्सेस, बेंगळूर, आणंदपार, नवी दिल्ली आणि एनएसआय, प्रयागराज यांच्या संयुक्त विद्यमाने ०५ व ०६ मार्च २०२४ या दिवसांत आयोजित करण्यात आलेल्या 'मूलभूत रसायनशास्त्र' या विषयावरील दोन दिवसीय कार्यशाळेचे उद्घाटन झाले.यावेळी ते प्रमुख पाहुणे म्हणून वेंकटराव शिंदे या उद्घाटन कार्यक्रमाच्या अध्यक्षपदी महाविद्यालयाचे प्राचार्य डॉ.जयप्रकाश दराड होते.प्रा.आनंद पाठक यांनी सादरपणे विषय प्रस्तुत होत असताना सारणीकर,काशीराव समनव्यक डॉ.



प्रा.आनंद पाठक यांच्या अध्यक्षतेखाली झालेले उद्घाटन कार्यक्रमाचे प्रमुख पाहुणे म्हणून वेंकटराव शिंदे यांचे उद्घाटन करताना सारणीकर,काशीराव समनव्यक डॉ.जयप्रकाश दराड असे म्हाणारे प्रा.आनंद पाठक यांच्या संयुक्त विद्यमाने आयोजित करण्यात आले. यावेळी प्रा.आनंद पाठक यांनी 'मूलभूत रसायनशास्त्र' या विषयावरील दोन दिवसीय कार्यशाळेचे उद्घाटन करताना सारणीकर,काशीराव समनव्यक डॉ.जयप्रकाश दराड असे म्हाणारे प्रा.आनंद पाठक यांच्या संयुक्त विद्यमाने आयोजित करण्यात आले.

लातूव भ्रमाचाव मूलभूत रसायनशास्त्राचे ज्ञान वृद्धिंगत करण्याची आवश्यकता-प्रा.आनंद पाठक



लातू/प्रतिनिधी:- जगाच्या पाठीवर भारतीय संस्कृती ही सर्वश्रेष्ठ असून प्रत्येक विद्यार्थ्यांनी 'मातृदेवी भव, पितृदेवो भव आणि आचार्य देवोभव' या शिकवणीप्रमाणे जीवनात आचरण केले पाहिजे.आई-वडील मुलांनाच आदर करीत आहेत त्या डॉ.ए.पी.जे.अब्दुल कलाम यांच्याप्रमाणे विनम्रतेने वागले पाहिजे.पीएच.डी.पदवी प्राप्त केली म्हणजे सर्व शिक्षण संपले असे नाही.कारण शिक्षण ही निरंतर चालणारी प्रक्रिया आहे.म्हणूनच विद्यार्थ्यांनी मूलभूत रसायनशास्त्राचे अध्यापन ज्ञान जास्तीत-जास्त वृद्धिंगत करण्याची आवश्यकता आहे,असे प्रतिपादन हैदराबाद विद्यापीठातील स्कूल ऑफ फिजिक्सचे माजी प्रा.आनंद पाठक यांनी केले. येथील दयानंद विज्ञान महाविद्यालयात इंडियन अकॅडमी ऑफ सायन्सेस,बेंगळूर,आयएनएसए, नवी दिल्ली आणि एनएसआय, प्रयागराज यांच्या संयुक्त विद्यमाने दि.०५ व ०६ मार्च २०२४ या दिवसांत आयोजित करण्यात आलेल्या विज्ञान अकादमीच्या 'मूलभूत रसायनशास्त्र' या विषयावरील दोन दिवसीय कार्यशाळेचे उद्घाटन झाले.यावेळी ते प्रमुख पाहुणे म्हणून बोलत होते. या उद्घाटन कार्यक्रमाच्या

अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ. जयप्रकाश दराड होते.याप्रसंगी रसायनशास्त्र विभागाचे प्रमुख डॉ.यु.वाराज सारणीकर,कार्यशाळा समनव्यक डॉ.नंदिनी कोरेडे,प्रा.राहुल जाधव यांची प्रमुख उपस्थिती होती. अध्यक्षीय समारोप करताना प्राचार्य डॉ.जयप्रकाश दराड असे म्हणाले की,महाविद्यालयात विद्यार्थी, प्राध्यापक यांच्या सर्वांगीण विकासासाठी विविध कार्यशाळा,सेमिनार,रिसेशर कोर्सेस व विविध उपक्रमांचे आयोजन सातत्याने केले जाते.याचाच भाग म्हणून रसायनशास्त्राचे मूलभूत ज्ञान विद्यार्थ्यांना मिळाले पाहिजे.कार्यशाळेतील तज्ज्ञ मार्गदर्शक, वैज्ञानिकांच्या अध्यापन ज्ञानातून विद्यार्थी घडला पाहिजे व त्या ज्ञानाचा उपयोग समाजासाठी झाला पाहिजे,या उद्देशातून ही कार्यशाळा आयोजित करण्यात आली.

मराठवाडा नेता मूलभूत रसायनशास्त्राचे ज्ञान वृद्धिंगत करण्याची आवश्यकता : प्रा.आनंद पाठक

लातू (म. नेता)..... जगाचा पाठीवर भारतीय संस्कृती ही सर्वश्रेष्ठ असून प्रत्येक विद्यार्थ्यांनी 'मातृदेवी भव,पितृदेवो भव आणि आचार्य देवोभव' या शिकवणीप्रमाणे जीवनात आचरण केले पाहिजे. आई-वडील मुलांनाच आदर करीत आहेत त्या डॉ.ए.पी.जे.अब्दुल कलाम यांच्याप्रमाणे विनम्रतेने वागले पाहिजे. पीएच.डी.पदवी प्राप्त केली म्हणजे सर्व शिक्षण संपले असे नाही.कारण शिक्षण ही निरंतर चालणारी प्रक्रिया आहे. म्हणूनच विद्यार्थ्यांनी मूलभूत रसायनशास्त्राचे अध्यापन ज्ञान जमनीत-जस्त वृद्धिंगत करण्याचे आवश्यकता आहे,असे प्रतिपादन हैदराबाद विद्यापीठातील स्कूल ऑफ फिजिक्सचे माजी प्रा.आनंद पाठक यांनी केले.



दयानंद विज्ञान महाविद्यालयात अखंडमी ऑफ सायन्सेस, बेंगळूर, आणंदपार, नवी दिल्ली आणि एनएसआय, प्रयागराज यांच्या संयुक्त विद्यमाने दि.०५ व ०६ मार्च २०२४ या दिवसांत आयोजित करण्यात आलेल्या 'मूलभूत रसायनशास्त्र' या विषयावरील दोन दिवसीय कार्यशाळेचे उद्घाटन झाले.यावेळी ते प्रमुख पाहुणे म्हणून बोलत होते. या उद्घाटन कार्यक्रमाच्या अध्यक्षस्थानी महाविद्यालयाचे प्राचार्य डॉ.जयप्रकाश

दराड होते. याप्रसंगी रसायनशास्त्र विभागाचे प्रमुख डॉ.यु.वाराज सारणीकर, कार्यशाळा समनव्यक डॉ.नंदिनी कोरेडे, प्रा.राहुल जाधव यांची प्रमुख उपस्थिती होती. प्रास्ताविक कार्यशाळा समनव्यक डॉ.नंदिनी कोरेडे यांनी केले तर आभार प्रा.राहुल जाधव यांनी मानले.सुसंचालन विद्या नागरिक व विद्वता राजमाने यांनी संयुक्तरीत्या केले. याप्रसंगी डॉ.रवी सोळंके, डॉ.श्रेया माहुरकर, डॉ. रवींद्र शिंदे, डॉ.विजेंद्र चौधरी, डॉ.विरमलाय मोटे, डॉ.टी. एच. मुजावर, डॉ. ईश्वर पठाण, प्रा.नवनाथ देवणे, डॉ. रामेशी शेटकर, प्रा.मेधा आराम, प्रा.मीना मुंडे, प्रा.भायशी काळे, प्रा.अच्युत शिंदे, प्रा.डायने चोपम्या इतर प्राध्यापक, शिक्षकेतर कर्मचारी आणि विद्यार्थी बसून उपस्थित होते.

अदिती एक्सप्रेस मूलभूत रसायनशास्त्राचे ज्ञान वृद्धिंगत करण्याची आवश्यकता

लातू : जगाचा पाठीवर भारतीय संस्कृती ही सर्वश्रेष्ठ असून प्रत्येक विद्यार्थ्यांनी 'मातृदेवी भव,पितृदेवो भव आणि आचार्य देवोभव' या शिकवणीप्रमाणे जीवनात आचरण केले पाहिजे.आई-वडील मुलांनाच आदर करीत आहेत त्या डॉ.ए.पी.जे.अब्दुल कलाम यांच्याप्रमाणे विनम्रतेने वागले पाहिजे.पीएच.डी.पदवी प्राप्त केली म्हणजे सर्व शिक्षण संपले असे नाही.कारण शिक्षण ही निरंतर चालणारी प्रक्रिया आहे.म्हणूनच विद्यार्थ्यांनी मूलभूत रसायनशास्त्राचे अध्यापन ज्ञान जास्तीत-जास्त वृद्धिंगत करण्याची आवश्यकता आहे,असे प्रतिपादन हैदराबाद विद्यापीठातील स्कूल ऑफ फिजिक्सचे माजी प्रा.आनंद पाठक यांनी केले.



दयानंद विज्ञान महाविद्यालयात अखंडमी ऑफ सायन्सेस, बेंगळूर, आणंदपार, नवी दिल्ली आणि एनएसआय, प्रयागराज यांच्या संयुक्त विद्यमाने दि.०५ व ०६ मार्च २०२४ या दिवसांत आयोजित करण्यात आलेल्या विज्ञान अकादमीच्या 'मूलभूत रसायनशास्त्र' या विषयावरील दोन दिवसीय कार्यशाळेचे उद्घाटन झाले.यावेळी ते प्रमुख पाहुणे म्हणून बोलत होते. या उद्घाटन कार्यक्रमाच्या



Dayanand Scienc college, Latur
In sponsorship of
Indian Academy of Sciences (Bengaluru),
Indian National Science Academy(New Delhi)
The National Academy of Sciences, India(Prayagraj)



Organizing
Science Academies' Lecture Workshop on
“Basic Chemistry”
(5th -6th March 2024)

List of Participants

Sr. No.	Name of the student	Name of the college	Email.id
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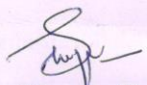
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Workshop Coordinator


Dr. Jaiprakash Dargad
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Dayanand Science College
LATUR

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IIA, Bengaluru

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Bangalore

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Calcutta Univ. Kolkata

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SEP/LW/Feb/2024

27th February 2024

Dr. Nanda Sheshrao Korde,
Associate Professor
Department of Chemistry
Dayanand Science college
Latur – 413 512

Sub: Sanction letter for Lecture Workshop on “Basic Chemistry” scheduled to be held at Dayanand Science College, Latur, during 5 & 6 March 2024

Dear Dr. Nanda,

This has reference to the letter forwarding a proposal and budget for organizing a two-day Lecture Workshop at Dayanand Science College, Latur. The Joint Science Education Panel of the three Academies will be happy to sponsor and support the Lecture Workshop. We note that Prof. Anand Pathak (University of Hyderabad) will be the workshop Convener and that you will be the Workshop Co-ordinator.

JOINT SCIENCE EDUCATION PANEL

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IISc, Bengaluru

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IASc will release funds for the Workshop, 75% of the approved amount of Rs: ~~1,71,660/-~~
(Rupees one lakh seventy-one thousand six hundred and sixty only).

- (c) Please ensure that the expenditure on individual items does not exceed the sanctioned BUDGET HEAD. If the actual expenditure exceeds the sanctioned budget, THE HOST INSTITUTION SHOULD TAKE CARE OF THE DIFFERENCE.
- (d) Lecture Workshops are sponsored and supported by the three National Science Academies – IASc, INSA and NASI. The names of INDIAN ACADEMY OF SCIENCES (BENGALURU), INDIAN NATIONAL SCIENCE ACADEMY (NEW DELHI) and THE NATIONAL ACADEMY OF SCIENCES, INDIA (PRAYAGRAJ) should therefore be mentioned in all publicity material such as programme sheet, invitation cards, etc.
- (e) It may be noted that no formal certificates should be issued to participants. A letter of attendance signed by Coordinator may be issued to those who need it.
- (f) The Workshop should be called Science Academies' Lecture Workshop: on “Basic Chemistry”.



Dayanand Education Society's
Dayanand Science College, Latur
(UGC-CPE, DST-FIST, NAAC "A+" Grade, Best College Award, affiliated to S.R.T.M.U.Nanded)




in sponsorship of
IASc (Bengaluru), INSA (New Delhi) and NASI (Prayagraj)
Science Academies' Lecture Workshop on
"Basic Chemistry"

CERTIFICATE OF PARTICIPATION

This is to certify that Masuldar Sana Fayaj
from Dayanand Science college Latur
has participated in Science Academies' Lecture Workshop on "Basic Chemistry" organized by Dayanand Science College, Latur in sponsorship of Indian Academy of Sciences (Bengaluru), Indian National Science Academy(New Delhi) and The National Academy of Sciences, India (Prayagraj) on 5th - 6th March 2024.

[Ref: SEP/LW/Feb/2024, Date: 27.02 2024]


Dr. Nanda Korde
Coordinator


Dr. Jaiprakash Dargad
Principal



Dayanand Education Society's
Dayanand Science College, Latur
(UGC-CPE, DST-FIST, NAAC "A+" Grade, Best College Award, affiliated to S.R.T.M.U.Nanded)




in sponsorship of
IASc (Bengaluru), INSA (New Delhi) and NASI (Prayagraj)
Science Academies' Lecture Workshop on
"Basic Chemistry"

CERTIFICATE OF PARTICIPATION

This is to certify that Jadhav Radha Sbashikant
from Shri Kumarswami Mahavidyalaya Ausa
has participated in Science Academies' Lecture Workshop on "Basic Chemistry" organized by Dayanand Science College, Latur in sponsorship of Indian Academy of Sciences (Bengaluru), Indian National Science Academy(New Delhi) and The National Academy of Sciences, India (Prayagraj) on 5th - 6th March 2024.

[Ref: SEP/LW/Feb/2024, Date: 27.02 2024]


Dr. Nanda Korde
Coordinator


Dr. Jaiprakash Dargad
Principal



Dayanand Science College, Latur.

Department of Chemistry

Events organized during the Academic year 2023-24

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

1. Name of the Department : Chemistry
2. Complete name/ title of the Activity : : Science Academies' Lecture Workshop on "Basic Chemistry"
3. Dates or Duration (from-----to) : 5th -6th March 2024
4. Venue of the Event : Dayanand Science College, Latur
5. Sponsor/Collaborations (if any) : Indian Academy of Sciences, Bengaluru
6. Level of the event (encircle) : National
International / National / State / University / District / College / Department etc.

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

Objectives:

- ❖ To offer a space for discussion and problem-solving. To develop more interest in chemistry
- ❖ To motivate these students to complete their PG (M.Sc.) and research work in chemistry

Outcomes:

- ❖ This Lecture workshop was a very worthwhile for students to learn the different aspects and to increase the scientific temper in the students.
- ❖ The Lecture workshop was informative and helpful to learn recent inventions in the region of chemical sciences.
- ❖ This workshop offered a space for discussion and problem-solving and developed more interest in chemistry.
- ❖ This Lecture Workshop motivated these students to complete their PG (M.Sc.) and research work in chemistry.

8. Beneficiaries / participants (Type/number, etc.):

- Total of 154 UG, PG, Research students and Faculty

9. Other major staff / student / Institution involved in the organization of the activity:

- Five teachers including Principal, Vice-Principal, Head of Department, Coordinator, Co-coordinator


10. Any other information / comment / qualitative remarks:




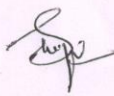
Dayanand Science College, Latur.
Department of Chemistry
Events organized during the Academic year 2023-24

The participants raised questions to the speakers and discussed about the topics. The sessions were very vibrant and participants gave very good feedback.

11. Photographs (with captions) submitted (number) :69
12. Evidence produced (Certificate, letters, newspaper cuttings etc.)
 - ❖ Participation Certificates
 - ❖ Sanction Letters from Indian Academy of Sciences, Bengaluru
 - ❖ News paper cutting
13. Name and Signature of Coordinator: Dr. Nanda Sheshrao Korde


HOD
HEAD
P.G. & U.G. in Chemistry
Dayanand Science College
LATUR


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


Principal
PRINCIPAL
Dayanand Science College
LATUR