



DST Technology Enabling Centre
University of Ladakh
(DST-TEC UoL)



विज्ञान एवं
प्रौद्योगिकी मंत्रालय
DEPARTMENT OF
SCIENCE AND
TECHNOLOGY

DST-Technology Enabling Centre (TEC) UoL

May 2024 Volume-2

NEWSLETTER

Key Activities

- DST-TEC UoL organized one-day Ladakh IDEATHON 1st Edition on 22nd March 2024 at Leh campus.
- DST-TEC UoL organized a one-day Ladakh IDEATHON 2nd Edition on 27th March 2024 at Kargil campus.
- DST-TEC UoL Organized an online interaction for the patent applicants on 9th April 2024.
- DST-TEC UoL celebrated National Technology Day on 11th May 2024 in collaboration with DRDO-DIHAR Leh.
- DST-TEC UoL invited scientist from DIHAR to deliver a talk on “Green House Technology” on 13th May 2024 at Leh campus.



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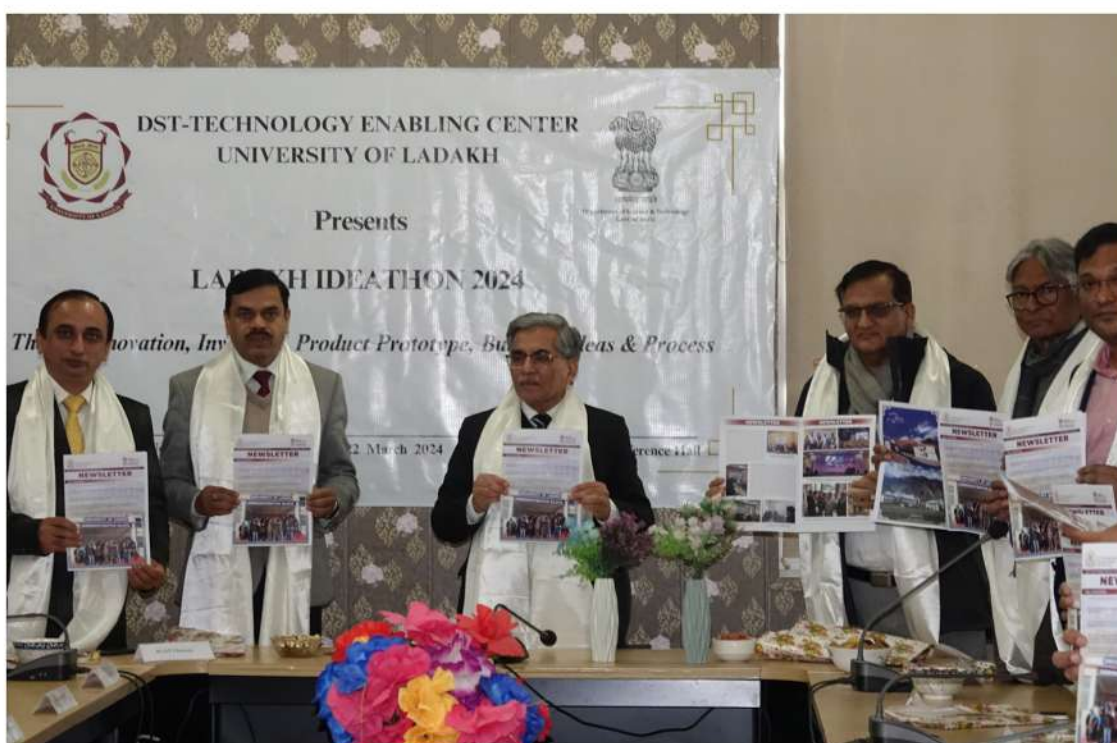
Highlights of the events:

A summarized report of activities organized by DST-TEC UoL for the period ending March-April 2024.

Ladakh IDEATHON 1st Edition 2024 at Leh Campus

22nd March 2024: DST-TEC UoL organized one day Ladakh IDEATHON 2024 under the chairmanship of Prof. S.K Mehta Hon'ble Vice Chancellor University of Ladakh. The event was attended by Dr. O.P. Chaurasia, Director DIHAR Leh, Dr. Maheshwar Singh Head CAZRI RRS Leh, Prof. Yajvender Pal Verma Registrar Panjab University, Dr. Tsering Stobdan Senior Scientist DIHAR Leh and Er. Dorjey Angchuk Head Engineer Indian Astronomical Observatory (IIA-IAO) Leh. Prof. S.K Mehta launched the official website (<https://tecuol.in>) of DST-TEC UoL. Members and special invitees offered their valuable advice and suggestions to TEC UoL and participants.

Among the above members, Dr. Maheshwar Singh Head CAZRI RRS Leh, Prof. Yajvender Pal Verma Registrar Panjab University, Dr. Tsering Stobdan Senior Scientist DIHAR Leh and Er. Dorjey Angchuk Head Engineer Indian Astronomical Observatory (IIAP-IAO) Leh acted as Jury members and evaluated the performance of participants. Each participant was allotted ten minutes to present their ideas and process. The jury members also inspected the stalls where participants were exhibiting their product prototypes.



(Inauguration of Newsletter Volume-1 by Hon'ble VC Prof. S.K Mehta during Ladakh Ideathon 2024)



(Hon'ble VC Prof. S.K Mehta felicitating Dr. O.P Chaurasia during Ladakh Ideathon 2024)

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The event was attended by students, technocrats, entrepreneurs, start-ups and researchers from various Colleges, schools, polytechnic institutes and NGO in five major sections.

1. Inventions.
2. Innovations.
3. Business Ideas.
4. Product Prototype
5. Process.



(Dignitaries listening to participants)

DST-TEC UoL also advertised the following financial and technical assistantship for the best performing innovators, start up and incubation centers.

- Financial assistance of Rupees fifty thousand.
- Support for Patent Publishing assistance.
- Industrial support.
- Incubation support.
- Training & skill development.

For the above event, DST-TEC UoL received participation applications from around 30 participants which included 28 individual participants and two group participants. The winners from each category were awarded with Certificate of appreciation and a cash prize of Rs. 20,000 and runners up were awarded with certificate of appreciation and a cash prize of Rs. 10,000. Certificates of participant were distributed to all the participants.



(Hon'ble VC Prof. S.K Mehta distributing Cash Prize Awards to Winners)

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(Hon'ble VC Prof. S.K Mehta distributing Cash Prize Awards to Winners)

Winners from various categories :

The following participants were awarded with cash prizes based on their performance during the event.

1) Product Prototype:

S. No.	Winning team/Participants	Position	Cash Prize
1	Ladakh Basket (Represented by Mr. Thinles Norbu)	First	Rs. 20,000
2	Wild to Market (Represented by Ms. Samina Anjum, Ms. Shah Jhan and Ms. Rehana Bano of Govt. Degree College Nubra)	Second	Rs. 10,000

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2) Innovation:

S. No.	Winning team/Participants	Position	Cash Prize
1	Suicide Savior Fan (Indian Patent Application no.202421005637) By Ms. Anuska Nanda Miner's Mask: An Essential Tool for the prevention of silicosis (Indian Patent Application no.202421003038) By Ms. Anuska Nanda B K Birla Public School, Kalyan Mumbai	First	Rs. 20,000

3) Business Ideas:

S. No.	Winning team/Participants	Position	Cash Prize
1	Oma-Ju Travels (Represented by Mr. Lundup Dorje)	First	Rs. 20,000
2	Ladakh Orchard (Represented by Mr. Stanbatsan)	Second	Rs. 10,000
3	Serchen Flowers (Represented by Dr. Rigzin Tsewang)	Thrid	Rs. 10,000



(Hon'ble VC Prof. S.K Mehta distributing Cash Prize Awards to Winners)



(Hon'ble VC Prof. S.K Mehta distributing Cash Prize Awards to Winners)

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Ladakh IDEATHON 2nd Edition 2024 at Kargil Campus

27th March 2024: DST-TEC UoL organized one day Ladakh IDEATHON 2024 under the chairmanship of Prof. S.K Mehta Hon'ble Vice Chancellor University of Ladakh. The event was attended by Dr. O.P. Verma Assistant Professor from NIT-Jalandhar, Dr. Ajay Sharma Assistant Professor from UIET Panjab University and Prof. Sudarshan. K.Valluru from Delhi Technological University. Members and special invitees offered their valuable advice and suggestions to TEC UoL and participants.

The above members acted as Jury members and assessed the performance of participants. Each participant was allotted ten minutes for presenting their ideas and process. The jury members also inspected the stalls where participants were exhibiting their product prototypes.

The event was attended by students, technocrats, entrepreneurs, start-ups and researchers from various Colleges, schools, polytechnic institutes, and NGO.

For the above event DST-TEC UoL received around 40 participants. The winners from each category were awarded with Certificate of appreciation and a cash prize of Rs. 20,000 and runners up were awarded with certificate of appreciation and a cash prize of Rs. 10,000. Certificates of participant were distributed to all the participants.

Winners from various categories :

Following participants were awarded with cash prizes based on their performance during the event.

1) Innovation:

S. No.	Winning team/Participants	Position	Cash Prize
1	AI Based Early Warning System for Brown Bear Intrusion detection. (Represented by Mr. Shujayat Hussain and his team)	First	Rs. 20,000
2	Automatic number plate recognition system. (Represented by Mr.Rachit Gupta)	Second	Rs. 10,000



(Participants presenting their idea)

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1) Business Ideas:

S. No.	Winning team/Participants	Position	Cash Prize
1	Rilungs Organic Tea (Represented by Mr. Tsewang Namgyal)	First	Rs. 20,000
2	Delicious Doksa Brew Tea (Represented by Mr. Stanzin Yangjor)	Second	Rs. 10,000

2) Invention:

S. No.	Winning team/Participants	Position	Cash Prize
1	Electric Cart. (Represented by Mr. Mohmmad Kumail and his team from PM Shri Kendriya Vidyalaya Kargil)	First	Rs. 20,000
2	How to reduce chest pain, pneumonia and asthma (Represented by Ms. Fatima Sugra from Government Higher Secondary School Trespone)	Second	Rs. 10,000



(Hon'ble VC Prof. S.K Mehta distributing Cash Prize Awards to Winners)

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National Technology Day in collaboration DIHAR DRDO

11th May 2024: DST-TEC UoL organized National Technology Day on 11th May 2024 in collaboration with DRDO-DIHAR Leh at DIHAR Campus. The program was graced by Hon'ble Vice Chancellor University of Ladakh Prof. S.K Mehta as Chief guest, Dr. O.P Chaurasia Director DIHAR-Leh as guest of honor and Dr. Tsering Stobdan Scientist-F DIHAR as special guest. Faculty members and students from various departments of University of Ladakh and Scientists from DIHAR attended the program. While shedding light on the importance of Technology Day, Dr. Tsering Stobdan, Scientist 'F' DIHAR highlighted the roles played by DIHAR (formerly FRL) in improving the lives of people and defense personnel living in the region of Ladakh. Subsequently, Dr. Anand Kumar Katiyar, Scientist 'E' DIHAR presented a detailed presentation on the ***"Greenhouse Technology for High Altitude Ladakh Region"***. He was awarded the certificate of achievement for his immense contribution to the high-altitude agriculture practice and greenhouse technology. Later, Dr. O.P Chourasia, Director, DIHAR in his speech, appraised the audience about the technological intervention DIHAR has done so far for the betterment of the people living or serving in Ladakh.



(Welcome Speech by DIHAR official during Technology Day)

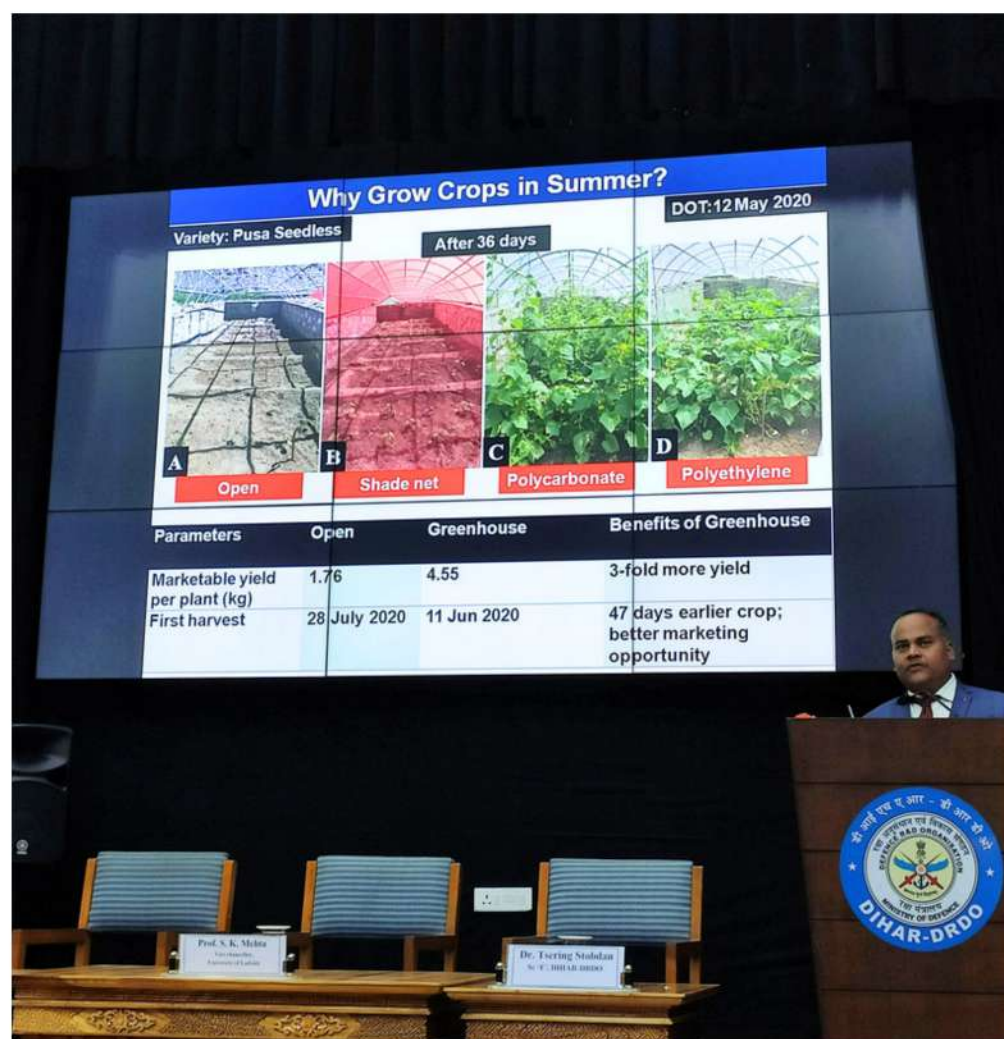
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While addressing the gathering, the chief guest, Prof. S.K Mehta highlighted the various academic and research achievements of the University of Ladakh in the technology sphere. He urged the audience to think out of the box for innovating new technologies for the betterment of society. It is worthwhile to mention here that the Technology Enabling Centre at the University of Ladakh was sanctioned by the Department of Science and Technology, Govt. of India, for creating a conducive environment for technological intervention to solve the prevalent problems.

The program culminated with a formal vote of thanks by Mr. Tsewang Tamchos, Technical Officer, DIHAR Leh.



(Hon'ble VC Prof. S.K Mehta Sharing his views during Technology Day)

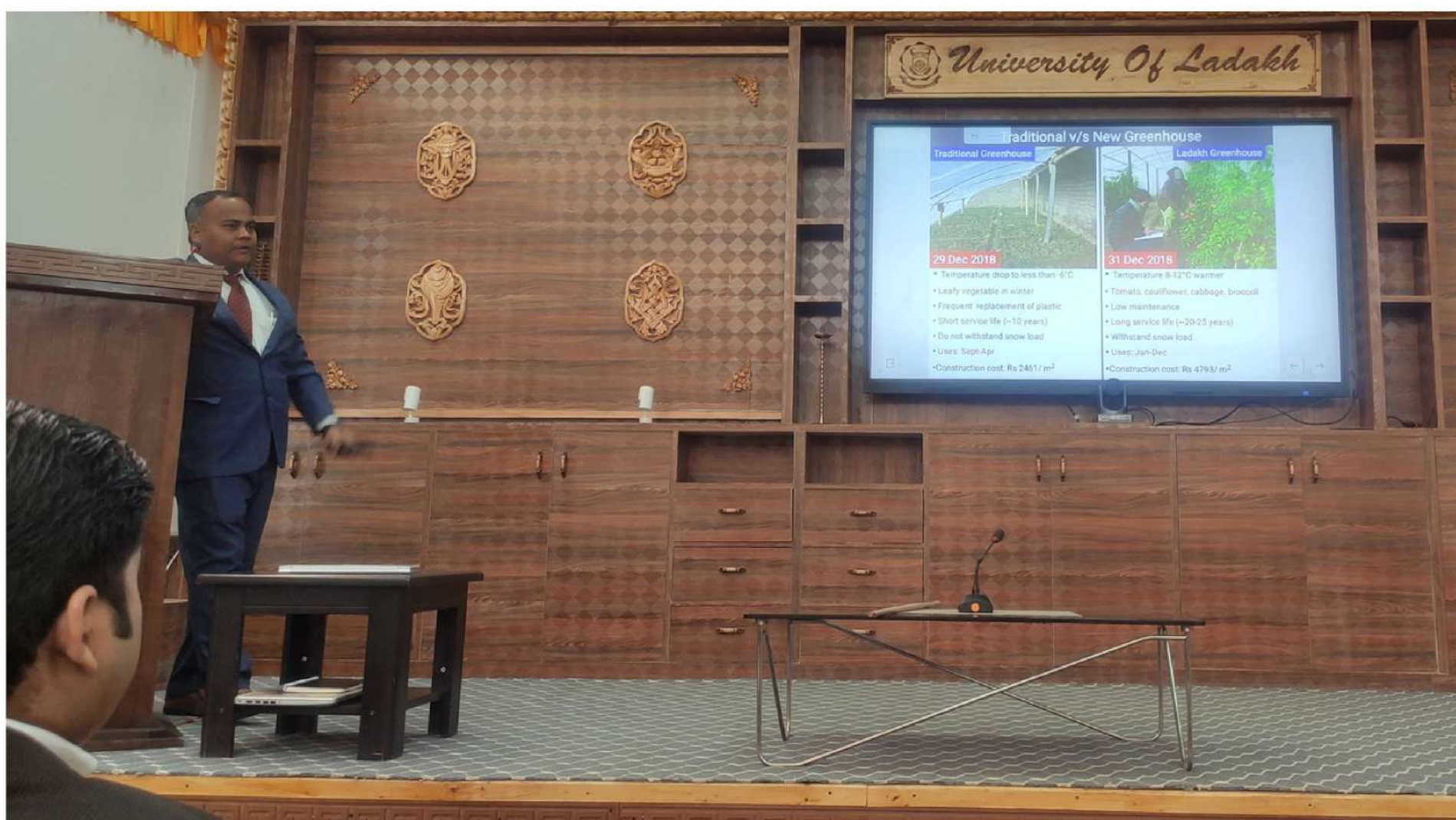


(Dr. Anant Kumar delivering his talk on Greenhouse Technology during Technology Day)

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Invited Talk by Dr. Anant Kumar Katiyar Scientist-E, DRDO-DIHAR

13th May 2024: TEC UoL invited Dr. Anant Kumar Katiyar Scientist-E DRDO-DIHAR to deliver a lecture on the theme **“Greenhouse Technology for Vegetable Cultivation in High Altitude Ladakh Region”** on the sideline of Technology Day on 13th May 2024. The invited lecture was organized to familiarize faculty and students with the greenhouse technology for Ladakh.



(Dr. A.K Katiyar Scientist-E delivering his talk at University of Ladakh)

Dr. Anant Kumar Katiyar highlighted the evolution of Green House Technology developed by Defence Institute of High Altitude and the progressive research advancement made to tackle the harsh climate conditions and the performance related to vegetable cultivation in Ladakh greenhouse developed by DIHAR. He also mentioned the technical, financial and crop cultivation impact of Greenhouse Technology in harsh cold regions like Ladakh for vegetables and fruits cultivation for defence personnel and local farmers.



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(Invited talk by Dr. A.K Katiyar Scientist-E at University of Ladakh)

DST-Technology Enabling Centre, University of Ladakh, organized an online interaction with patent attorneys.

During Ladakh Ideathon 2024, two groups of students presented organic Tea as their product prototypes and both teams were awarded with cash prizes. The Hon'ble Vice Chancellor University of Ladakh strongly suggested to look for patent filing procedures for them. Two patent attorneys were consulted for their inputs regarding patent filing procedures, and they suggested to conduct a nutritional analysis from a lab/institute so that ingredients composition or ratio of ingredients, Bioavailability data, Absorbability, non-toxicity and efficacy studies can be confirmed technically.

The nutritional analysis is to be conducted tentatively from Sri Sathya Sai University Karnataka and Guru Nanak Dev University Punjab.

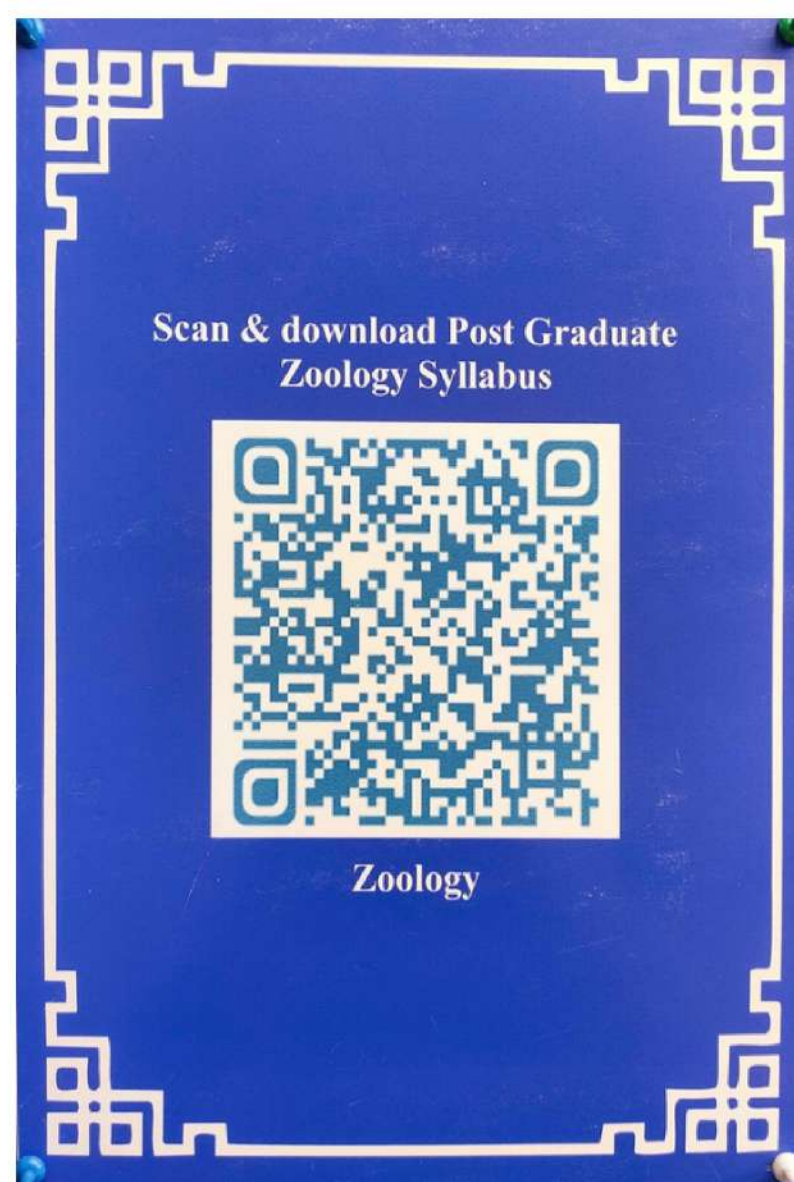
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Digitalisation of all academic syllabi and department information.

To enable easy access of academic syllabi and department information digitally, DST-TEC UoL has facilitated QR codes for all academic syllabi and respective departments information. This initiative was executed so that the students of both the campuses can access their syllabi, faculty profiles and department information by scanning QR Codes. Along with these QR codes information about University of Ladakh, Academic Profile of Hon'ble Vice Chancellor and Information about Central library were also facilitated by DST-TEC UoL. This initiative was suggested by Hon'ble Vice Chancellor Prof. S.K Mehta as a part of digitalization of university campuses.



(QR code for Department of Zoology)



(QR code for Zoology Syllabus)

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Upcoming events at DST-TEC UoL (June 2024):

DST-TEC UoL will be hosting two events related to technological advancement and exploration in the agriculture sector and Pashmina sector in two editions. First edition in the Leh Campus, and second edition in the Kargil Campus. Winners from each category will be rewarded with cash prizes. Additionally, progressive farmers adopting technology in farming, agro-business, Textile business, the top innovator, institute, startup, or incubation center will get seed funding, support for patent publication, incubation assistance and skill development training etc.

The themes for upcoming events will be based on the following agendas (not limited to):

Agriculture:

1. Crop & Horticulture farming.
2. Farm mechanization.
3. Digital agriculture & automation.
4. Post harvesting, food technology & value addition.
5. Supply chain & logistic management.
6. Automation in harvesting & ploughing.



Pashmina:

1. e-Market for pashmina.
2. Spinning technology
3. Automation for precision spinning.
4. Wool gathering & Processing.

All the participants shall be awarded with certificate of participation,
The winner and Runner-ups in each category shall be awarded with certificates and cash prizes respectively along with the assistance and mentorship of the experts at TEC-UoL.
The best Innovator/Institute/Startup/Incubation centre shall be benefited with:

- Incubation Support
- Support for patent publishing
- Training and skill development
- Industry exposure



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