

5. Dr Meeta Bhardwaj
6. Dr Mansi Verma
7. Dr Aditi Kothari
8. Dr Nimisha Sinha
9. Dr Amit Vashistha
10. Dr Neeti Mehla
11. Dr Rajender Phartyal
12. Dr Swaran Singh
13. Dr P.Jayaraj
14. Dr. Nupurnima Yadav
15. Dr Kameshwar Sharma YVR
16. Dr. Vandana Malhotra

THE OBJECTIVE

The first collaborative TROP ICSU workshop entitled “**CLIMATE ACROSS THE CURRICULUM: RESOURCES FOR INTEGRATING CLIMATE TOPICS IN DISCIPLINE-SPECIFIC TEACHING**” for teachers was successfully organized by IQAC, Sri Venkateswara College (University of Delhi) during 13-14th October 2018.

The objective of the TROP ICSU project was to make the students, across the world, understand that the climate change issue is an essential step toward achieving the Sustainable Development Goals. As the aim of the project is not to introduce Climate Education as a stand-alone topic, but to integrate it with the core curriculum of Science, Mathematics, and Social Sciences. With this objective in mind, the project aims to introduce the collection of digital teaching resources on the TROP ICSU website to teachers of various disciplines or subjects to improve the understanding of climate change among the students in their classroom while simultaneously enhancing their conceptual understanding of topics in respective disciplines.

During this workshop, participants learnt to use digital teaching resources

- Of Different Types: Laboratory Activities, Visualizations, Micro-lectures and Videos, Models and Simulators, and Games
- For Different Grade Levels: High School and Undergraduate

PARTICIPANTS OF TROP ICSU at Sri Venkateswara college

The workshop was attended by 80 undergraduate-level teachers, across the Delhi University, from various disciplines, including the Biological Sciences, Chemistry, Physics, Mathematics, Statistics, Economics, Food and Nutrition, Environmental Studies, Electronics, and Instrumentation. The workshop introduced the participants to digital teaching resources

for teaching topics in the respective disciplines using climate-related examples, case studies, and activities.

*list of participants attached

LEARNING OUTCOMES

- Most of the participants have shown their enthusiasm in developing the lesson plans and have responded that the published lesson plan was very effective in explaining the topic to students.
- Participants found the hands-on, interactive group sessions to be very useful and engaging.
- Peer discussions in groups helped in the exchange of ideas and enhanced participants' learning.
- Most importantly, the Educators can use these new educational tools and innovative teaching practices in their classroom to enhance the conceptual understanding of topics in different disciplines while increasing awareness of climate change.

Lesson Plans contributed by SVC faculty at the TROPICSU page

- The interactive and hands-on workshop was well received by the participants. The participants from various disciplines submitted ideas of new lesson plan ideas. Some of the new lesson plans created by the participants were on the following topics:
- Climate Change and Respiratory Health (Biological Sciences)
- Climate Change and Pollination (Biological Sciences)
- Zika and Climate Change (Biological Sciences)
- Shadow Price of Carbon for Developing and Developed Countries (Economics)
- Basic Statistical Techniques to Model Climate Science Data (Statistics)
- Effect of Population Growth on Climate Change (Mathematics)
- Heat Equation to Understand the Greenhouse Effect of the Atmosphere (Physics)

Overall, the participants were enthusiastic to learn about the usage of the digital teaching resources in the classroom and to integrate climate science/climate change-related topics in their existing curriculum.

METHODOLOGY

Day-1

- Introduction to the TROP ICSU project by the TROP ICSU team, overview of teaching resources (teaching tools/discipline, lesson plan), with examples
- Group-based activity by the participants (groups organized by disciplines)

Day-2

- Creation of a new lesson plan
- Presentation of new lesson plans by participants
- Open Discussions with participants and feedback

FEED BACK OF PARTICIPANTS

Some feedback from participants:

“Congratulations to the entire SVC TEAM and TROPICSU members for organizing the workshop. Everyone is going to be benefited.”

“It was a wonderful experience. The level and diversity of discussion were outstanding. Thanks SVC and TROPICSU team.”

“It was really a great and unique learning experience.... very well organized and great hospitality”

• LIST OF PARTICIPANTS-DISCIPLINE WISE

S. No	regnumbe r	desi g	candname	orgname
	Botany			
1	TRPS9417 88121519	Dr	Ruchi vir	Zakir Husain Delhi college
2	TRPS6290 63111519	Dr	Saloni Bahri	Miranda House, University of Delhi
3	TRPS8251 41282019	Dr	shubhra Barwa	Bhaskaracharya college of Applied Sciences, University of Delhi
4	TRPS2282 83542019	Dr	Sujata Bhardwaj	Bhaskaracharya college of applied sciences (DU)
5	TRPS2182 16133019	Ms	Aakrati Agarwal	University of Delhi
6	TRPS2745 49292919	Dr	Roma Katyal	Dyal Singh College/University of Delhi
	Microbiol ogy			
7	TRPS8577 29581519	Dr	Ruchi Gulati Marwah	Bhaskaracharya College of Applied Sciences, University of Delhi
8	TRPS2760 59431719	Dr	Neha Bansal	Bhaskaracharya College of Applied Sciences, University of Delhi
9	TRPS6935 39331519	Dr	Ashok Saini	Institute of home economics /Delhi University
	Biochemis try			
10	TRPS6826 90481719	Dr	Sunita Singh	Shivaji College
11	TRPS9889 6171719	Dr	Anita Sondhi	Bhaskaracharya College of Applied Sciences
12	TRPS4523 21241719	Dr	Neena R Wadehra	Shivaji College
13	TRPS1961 75341719	Dr	Sarika Yadav	Sri Venkateswara College
14	TRPS9929 29171719	Dr	Jayita Thakur	Shivaji College
15	TRPS8621 51191919	Dr	Renu Baweja	Shivaji College
	Zoology			

16	TRPS7859 06361519	Dr	Sudhir Verma	Deen Dayal Upadhyaya College
17	TRPS2823 21341519	Dr	Simran Jit	Miranda House, University of Delhi
18	TRPS1434 55451519	Dr	Jyoti Arora	Miranda House, University of Delhi
19	TRPS9167 94561519	Dr	Jaspreet Kaur	Maitreyi College, DU
20	TRPS8189 89262019	Dr	Rashmi Kumari	Deen Dyal Upadhyaya College
21	TRPS6797 92471919	Dr	Mamta Pandey	Maitreyi College, Bapudham Complex, Chanakyapuri, New Delhi-110021
22	TRPS2485 5272519	Dr	Divya Bajaj	Hindu college
23	TRPS7720 2292719	Ms	Varsha Yadav	Hindu College
24	TRPS4371 87562119	Dr	Renu Solanki	Deen Dayal Upadhyaya College, University of Delhi, Sec 3 Dwarka, New Delhi 110 078
25	TRPS1778 55422019	Dr	Kamlesh Kumari	DDU college
	Chemistry			
26	TRPS4071 81531519	Dr	GARIMA KHANNA	Gargi College, University of Delhi
27	TRPS3941 90271619	Dr	Taruna Singh	Gargi College
28	TRPS4963 35251819	Dr	Manjeet Singh Barwa	Bhaskaracharya College of Applied Sciences, Dwarka
29	TRPS6991 01481819	Dr	Pragya	SVC
30	TRPS5319 58361819	Dr	Akanksha Gupta	Sri Venkateswara College
31	TRPS3697 45222019	Dr	Prashant Singh	ARSD college
32	TRPS9220 68271919	Dr	Kiran Soni	Maitreyi
33	TRPS8467 84542819	Dr	Vinod Kumar	Kirori Mal College
34	TRPS5615 6682119	Dr	Upasana Issar	Kirori Mal College, University of Delhi
35	TRPS6902 15182119	Dr	RICHA ARORA	Shivaji College, DU
36	TRPS5754 3632119	Dr	Shalini Jaiswal	Amity University greater Noida

37	TRPS9712 0492619	Dr	Pooja	Sri Venkateswara College
38	TRPS3746 48522719	Dr	Ravinder Kumar	Ramjas college, University of Delhi
39	TRPS5855 3082619	Ms	Saya Laishram	Sri Venkateswara College
40	TRPS2322 9322219	Dr	VINITA KAPOOR	SRI VENKATESWARA COLLEGE
41	TRPS1724 31551519	Dr	Pooja Saluja	Shivaji College, University of Delhi
42	TRPS8490 64502919	Dr	Dr. Shilpa Mehta	Ramjas College, University of Delhi
	Food Technology			
43	TRPS2967411 1919	Dr	SHALINI SEHGAL	BHASKARACHARYA COLLEGE OF APPLIED SCIENCES
	Environmental Studies			
44	TRPS1542074 82019	Ms	NEHA GOYAL	Sri Guru Gobind Singh College of Commerce, University of Delhi
45	TRPS5970521 41519	Ms	Ifrah Rehman	Janki Devi Memorial College
	Physics			
46	TRPS1015832 71519	Dr	Piyush Kumar Parashar	Sri Venkateswara College
47	TRPS7800425 51619	Dr	Garima Saxena	Sri Venkateswara College
48	TRPS7783943 52119	Dr	Dr. Preeti Singh Bahadur	Amity University , Greater Noida
49	TRPS2197003 22319	Mr	Mohd Sadiq	ARSD
50	TRPS5604958 2119	Dr	Yogesh Kumar	Deshbandhu College
51	TRPS6743950 2119	Ms	Poonam Jain	Sri Aurobindo College
52	TRPS6100023 82519	Dr	Raghvendra Pandey	A.R.S.D. College, University of Delhi
53	TRPS5451832 32019	Dr	Manoj Giri	Sri Venkateswara College (University of Delhi)- 110021
54	TRPS5742834 12919	Dr	PRADEEP KUMAR	HANSRAJ COLLEGE

55	TRPS6811794 22919	Mr	ARVIND KUMAR	RAMJAS COLLEGE
56	TRPS1980575 72919	Dr	Parvendra Kumar	Bhagini Nevidita College
	Electronics			
57	TRPS7302881 1519	Dr	Geeta Mongia	Bhaskaracharya college of Applied Science
58	TRPS2990622 61719	Dr	JITENDER KUMAR	BHASKARACHARYA COLLEGE OF APPLIED SCIENCES
59	TRPS4175221 22619	Ms	Himani Dua Sehgal	Shaheed Rajguru College of Applied Sciences for Women, University of Delhi
60	TRPS7081373 22619	Mr	Puneet Sehgal	Atma Ram snatan Dharma college
61	TRPS4170553 02519	Dr	Nutan Kala Joshi	Sri Venkateswara College
62	TRPS2220622 52319	Dr	NEHA SHARMA	KESHAV MAHAVIDYALAYA, UNIVERSITY OF DELHI
63	TRPS9982034 81519	Dr	Inderbir Kaur	Bhaskaracharya College of Applied Science, University of Delhi
	TRPS9803232 32919	Mr	Prashant Kumar	Keshav Mahavidyalaya
	Mathematics			
64	TRPS9857756 1519	Dr	Swarn Singh	Sri Venkateswara College
65	TRPS2693443 21519	Ms	Rajni Arora	Sri Venkateswara College
66	TRPS5062361 1719	Dr	Ankit Gupta	Bharati College, University of Delhi
67	TRPS6963135 41719	Dr	KUMARI PRIYANK A	Shivaji College
68	TRPS1920147 1819	Mr	Amit Kumar	Sri Venkateswara college
69	TRPS4642559 2419	Dr	Jyoti darbari	Lady shri ram college
70	TRPS5232792 22119	Mr	ABHISHEK	PDM University
71	TRPS9320931 12119	Mr	Mayank Choudhary	Sri venkateswara
72	TRPS2953811 32219	Ms	Sunita Sharma	Kalindi college

73	TRPS2258114 12419	Ms	neha mongia	Sri Venkateswara college
74	TRPS7392015 62619	Dr	Garima Virmani Arora	Sri Venkateswara College
75	TRPS7310023 02519	Ms	Deepti Jain	Sri Venkateswara College
76	TRPS4248003 31519	Dr	Nisha Bohra	Sri Venkateswara College
	Statistics			
77	TRPS6329225 92719	Dr	Dipika	Sri Venkateswara college
78	TRPS8492425 12319	Dr	Alok Kumar Singh	Sri Venkateswara College
79	TRPS4380805 43019	Mr	Akash	Sri Venkateswara College
	Political Science			
80	TRPS5838961 01619	Dr	chanchal	Janki Devi Memorial College, University of Delhi
	Economics			
81	TRPS7753189 2019	Ms	Megha Jacob	Jesus and Mary college
	Instrumentation			
82	TRPS2543619 2519	Ms	Shweta Dua	Bhaskaracharya College of Applied Sciences
	Foods and Nutrition			
83	TRPS1596042 72419	Dr	Aditika Agarwal	Lady Irwin College

PROOFS & DOCUMENTS ATTACHED (Tick mark the proofs attached):

Notice & Letters	Student list of participation	Activity report	Photos	Feedback form
Feedback analysis The feed back analysis is shown in the link attached https://tropicsu.org/wp-content/uploads/2018/10/Report_TROPICSUWorkshopSVCDelhi_Oct2018.pdf	List attached	Attached	Any other	Feed back form was shared by team TROPICSU and

Photos





NAME OF TEACHER & SIGNATURE	NAME OF HEAD/ COMMITTEE INCHARGE & SIGNATURE	IQAC COORDINATOR (SEAL & SIGNATURE)
Dr. Shefali	Dr. P.Hemalatha Reddy Dr. Shefali Shukla	Dr. N. Latha

IQAC Document No: SVC/2018-2019/ Departmental file no: FDP	Criterion No: II/VII IQAC file No; 2018-2019	Metric No: 7
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For Reference

Criterion I	Curricular Aspects (planning & Implementation)	Criterion V	Student Support & Progression
Criterion II	Teaching Learning & Evaluation	Criterion VI	Governance
Criterion III	Research, Innovations & Extension	Criterion VII	Institutional Values & Best Practices
Criterion IV	Learning Resources and Infrastructure		



TROP ICSU:
Transdisciplinary Research-Oriented
Pedagogy for
Improving Climate Studies
and Understanding



INTERNATIONAL
COUNCIL
FOR SCIENCE



Faculty Development Program cum Workshop

CLIMATE ACROSS THE CURRICULUM: RESOURCES FOR INTEGRATING CLIMATE TOPICS IN DISCIPLINE-SPECIFIC TEACHING

Organized by: Sri Venkateswara College, University of Delhi

In Collaboration with IISER Pune

Date: October 13th -14th, 2018

Venue: Seminar Hall, Sri Venkateswara College

Sri Venkateswara College is a constituent college of the University of Delhi. The college was set up in 1961 under the benign auspices of Tirumala Tirupati Devasthanams (TTD). It is a NAAC accredited "A" Grade college and was awarded with Potential for Excellence by UGC (2004) and DBT Star College Status (2016). The college is committed to provide all the latest technologies needed to produce graduates who are well equipped with demands of 21st century. The humanities and social sciences are the subjects of strong choice and serve as the bedrock for human values and social concerns. The College has been awarded more than 50 major research projects from DST, DBT, DRDO and is extensively involved in undergraduate research and teaching for the past six decades.

About the Workshop

This workshop is designed to

(i) Introduce the participants to digital educational tools and innovative teaching practices in their classroom to teach topics in different disciplines using climate-related examples, case studies, and activities and

(ii) Demonstrate a new pedagogical approach to help improve the understanding of climate change among students while simultaneously enhancing their conceptual understanding of topics in different disciplines.

In this interactive workshop, participants will carry out hands-on activities through the use of different types of digital teaching tools. Participants will also develop their own lesson plans that can be used to teach topics from different disciplines using climate-related activities, examples, and case studies.

Registration

Who should attend ?

Undergraduate-level teachers of all disciplines (Biology, Physics, Chemistry, Mathematics, Statistics, Social Sciences, Humanities, Economics, Geography, and Earth Sciences)

Registration : Free

Number of Seats: 50

As the seats are limited, early registration is recommended.

How to Enroll?

The registration form can be downloaded from www.svc.ac.in

Kindly fill the registration form and mail it on or before 30th September 2018 at tropicsu@svc.ac.in.

* All the participants are requested to bring their laptops during the workshop.

Last date for receipt of completed registration form is 30th September 2018.

For more information contact:

Dr. Shefali Shukla (Mobile: 9873412988)

Write us at tropicsu@svc.ac.in



Sri Venkateswara College

(University of Delhi)

NAAC- A, DBT Star College

In Collaboration with **IISER Pune**

Organizes

**Faculty Development Program cum
Workshop**

on

**CLIMATE ACROSS THE CURRICULUM:
RESOURCES FOR INTEGRATING
CLIMATE TOPICS IN DISCIPLINE-
SPECIFIC TEACHING**

October 13th -14th, 2018

Venue : For Inauguration - Seminar Hall
Hands-on Training - ICT Lab



Faculty Development Program (FDP) cum Workshop

on



Climate Across the Curriculum: Resources for Integrating Climate Topics in Discipline-Specific Teaching

CERTIFICATE OF PARTICIPATION

This is to certify that Dr./Mr./Ms. from
..... has attended the Faculty Development Program cum
Workshop on '**Climate Across the Curriculum: Resources for Integrating Climate Topics in
Discipline-Specific Teaching**' organised by IQAC, Sri Venkateswara College (SVC), University
of Delhi (DU), India in collaboration with TROPICSU, a Climate Education Project funded by the
International Council for Science (ICSU) & IISER, Pune, India on 13th-14th October, 2018.

Dr. P. Hemalatha Reddy
Principal
Sri Venkateswara College

Prof. L. S. Shashidhara
Chair (Biology) IISER Pune
Secretary-General, IUBS