



Directorate of Outcome
Outcome Report(Event/Activity Organized @ AUH)

1. General Information

Date: 10 – 14 January 2022

Event Type: Online Training Programme

Event Title: Building Urban Resilience Through Advanced Technology

Event Theme: IPR/Entrepreneurship

Venue: Zoom

Web/Video Link of the Event:

Organized by: Amity Mega Centre for Natural and Man-made Calamities (AMCNAMC)

In collaboration with: National Institute of Disaster Management, (NIDM)

Event Level: Institutional

Student Participation*: No. of Students from AUH (Course wise):-NA

Faculty Participation*: No. of Faculty Members from AUH (Deptt. wise):- 05

Participation from outside AUH*: No. of Students & Faculty Members- 35

(Enclose attendance sheets in given format)

Event Coordinator(s) with designation: Dr. Ila Gupta, Director, Amity School of Architecture and Planning, AUH

Details of Expert/Speaker/Resource Person/Judge:

SN	Country Name	Expert Name	Organization Name	Designation	Specialization	Contact No.	E-mail Id	CV of Expert (Yes/No)	Major Areas where Amity can Collaborate with expert	Recommended by
1	India	Dr Piyooch Rautela	Uttarakhand State Disaster Management Authority	Executive Director	Urbanization and Disaster	NA		Yes	Urban and Regional Planning, Disaster Management	Dr. Ila Gupta
2	India	Dr Sudhakar Shukla	Remote Sensing Applications Centre, U.P., Lucknow	Head, School of Geo-informatics & Scientist	Disaster Management and Urban Resilience	NA		Yes	Disaster Management and Urban Resilience	Dr. Ila Gupta
3	India	Dr. Sweta Baidya,	NIDM	Consultant,	Architecture and Planning	NA	drswetabaidya@gmail.com	Yes	Disaster Management and Urban Resilience	Dr. Ila Gupta
4	India	Dr.Kopal Verma,	NIDM	Junior Consultant,	Geography, Urban and Regional Planning	NA		Yes	Disaster Management and Urban Resilience	Dr. Ila Gupta
5	India	Dr. P P Nageswara Rao,	ISRO (Rtd)	Outstanding scientist	GIS	NA		Yes	Spatial Data Infrastructure	Dr. Ila Gupta

Criteria of Inviting Resource Person/Judge/Speaker/Judge (Write a paragraph):

All the resource person were quite familiar with the theme entitled ‘Building Urban Resilience Through Advanced Technology’ of the training programme. They were experts in their respective research domains such as GIS, Spatial Data Infrastructure, Urban Resilience, City Planning, Geology, Disaster management etc.

Were the guest known in advance and if yes, from what previous interaction (Write a paragraph)?

All experts were invited and informed beforehand via email. Dr. Ila, Director, ASAP has requested the guest to give a brief presentation. She has also requested to the speakers to discuss and interact with the participants so that they can get better knowledge on urban resilience by using appropriate tools and advanced technology. All guest were agreed to conduct the session from 10 – 14th January 2022.

2. Outcome of the Event with Time Lines (Proposed/Achieved)

Envisaged Outcome	Tangible/ Intangible	Achieved/ Proposed	Target date & responsibilities (if proposed)	Details of outcome
1. Outcome related to Academia Connect				
a) Collaborations for Research Papers/Conference Papers/ Book Chapter etc.				
b) Collaborations & MOU for Research Guidance [PhD, PG & UG (summer training, Dissertation)] & Projects/Use of Instruments etc.				
c) Collaboration for Funded Projects				
2. Outcome related to Industry Connect				
a) Placement				
b) Collaborations for Research Papers				
c) Collaborations & MOU for Research Guidance [PhD, PG & UG (summer training, Dissertation)] & Projects/Use of Instruments				
d) Collaboration for Funded Projects				
3. Outcome related to Society Outreach				
a) Benefit to society in terms of Health & Hygiene				
b) Benefit to society in terms of Education				
4. Outcome related to Students Learning & Grooming				
5. Any other				

3. Event Report along with glimpses of the event(Photographs)

3.1 General Introduction of the Events-

Amity Mega Center for Natural and Man-Made Calamities (AMCNCAMC) is one of the critical Research Clusters of Amity University. The cluster focuses on reducing the risk of natural & manmade disasters through Data Management, Multi-Disciplinary Research, Training and Generating Public Awareness for Resilience Building. The Cluster includes Faculty and Scholars from all Amity Campuses who are experts in Geo-Informatics, Engineering, Architecture, Urban Planning, Information Technology, Biotechnology, Public Health and other related fields required for addressing effective disaster management.

Inspiration & Objectives of the Event: Building Urban Resilience is crucial and this Training Programme would focus on achieving the following objectives:

1. To understand major disaster risks in urban setting of Indian Context and the need for advance technology.
2. To develop an understanding about the components of urban resilience.
3. To understand the integration and application of advanced technologies like drones, robotics, sensors, GIS, Virtual reality, digital twins, AI and Machine Learning used for building urban resilience.
4. To develop network among participants for active role in near future for capacity building of urban resilience.

3.2 Brief about the address/talk of speakers

Dr. Piyoosh Rautela is presently Executive Director of Disaster Mitigation and Management Centre, an autonomous institute of the Department of Disaster Management, Government of Uttarakhand, India.

Dr. Sudhakar Shukla is the present **Head** of School of Geoinformatics RSAC – UP who has secured his M-Tech from the prestigious IIT – Roorkee. He possesses a PGDEE as well as a Ph.D degree. His current responsibilities are directed towards the Surface Water Resources Division and the School of Geoinformatics. He is also proficient in applying satellite Remote and GIS techniques for surface and ground water management, geo – environmental assessment and also for disaster management at the state level. Shukla has also worked as an assistant professor in the Department of Geology, University of Lucknow. In his work experience of 28 years he has written and published 50 research papers.

Dr. Sweta is a Consultant at National Institute of Disaster Management, Ministry of Home Affairs, wherein she helps organizations to develop disaster management strategies, sectoral policies and capacity building. She works extensively with WHO, UNICEF, GIZ, Universities and Ministries on policy formulation, planning and capacity building. Sweta has been a visiting faculty at national universities and is a regular speaker at international conferences on business continuity and green growth. She is passionate about solving climate disasters and applying emerging technologies for building resilience and adaptation.

Sweta is a PhD in Climate Change from National Institute of Oceanography and Post Graduate from Banaras Hindu University. Areas of expertise: Climate Change, Disaster Management, Oceanography, Glaciology

Mr. P. P. Nageshwar Rao, His current research is on applying the geospatial technologies for crop yield estimation, crop condition assessment using multi-sensor and multi-temporal data analysis. The aim is to develop methodologies to estimate crop losses at the village-level. He is presently working as a Faculty Member teaching the students of MTech Geoinformatics. Also assisting the Government of the Karnataka state. Serving as Honorary professor at Karnataka State Rural Development and Panchayat Raj University, Gadag.

‘Take Homes’ for the Guest and Attendees:

1. Development of understanding about the components of urban resilience.
2. Understand of major disaster risks in urban setting of Indian Context.
3. Understanding the integration and application of advanced technologies like drones,
4. robotics, sensors, GIS, Virtual reality, digital twins, AI and Machine Learning used for building urban resilience.
5. Developing a network among participants for active role in near future for capacity building of urban resilience.

3.4 Future plan for utilizing the contacts developed with the Invited Guests: Amity Mega Centre for Natural and Man-made Calamities (AMCNAMC) will look forward for organizing many more session with the guest.

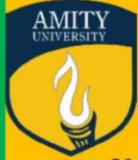
3.5 Budget of the Event(Budget Sanctioned, Total Expenditure&Revenue Generated): Nil

3.3 Details of Awards if Any:

Awardee Details	Award / Position / Recognition Secured	Title of Innovation/ Start-up Secured the Award / Recognition	Award/Recognition/ Achievement Received for

3.6 Photographs with caption *(also share high resolution JPEG files of photographs)*

Event Brochure



Amity Mega Center for Natural and Man-made Calamities
In collaboration with
National Institute of Disaster Management, Ministry of Home Affairs, Govt. of India

Organizing
Five day Online Training Programme
on
‘Building Urban Resilience through Advanced Technology’



Date: 10th -14th January 2022 | Time:14:00 Hrs - 17:00 Hrs IST

No registration Fee

PATRONS



Maj. Gen. Manoj Kumar Bindal
Executive Director,
NIDM, New Delhi



Dr. W. Selvamurthy
President, ASTIF
Chancellor,
Amity University, Chhattisgarh

CONVENERS



Prof. (Dr.) Anil K. Gupta
Head, Division of Environment Climate Change &
Disaster Risk Management, NIDM, New Delhi



Prof. (Dr.) S. M. Veerabhadrapa
Chairperson, AMCNAMC
Director, AIGRS, Amity University UP, Former
Scientist G & Director, DRDO, Ministry of Defence.

SPEAKERS



Dr. Piyoosh Rautela
Executive Director,
Uttarakhand State Disaster
Management Authority



Mr. Sudheer Dwivedi
Joint Director
DMI, Bhopal



Dr. Sweta Baidya
Consultant, NIDM



Mr. Manish Kumar
Sr. Water Resources Engineer,
DHI (India) Water & Environment
Pvt Ltd



Dr. Sudhakar Shukla
Head, School of Geo-informatics
Scientist, Remote Sensing
Applications Centre, U.P



Dr. P P Nageswara Rao
Outstanding scientist (Rtd.),
ISRO



Mr. Michael Islery
Junior Consultant, NIDM



Dr. Kashif Imdad
Department of Geography, Kanpur University
Member, Expert panel for smart cities/ Urban
transportation



Prof. (Dr.) Chandan Ghosh,
Head,
Resilient Infrastructure Division,
NIDM, New Delhi



Mr. Sushil Kumar Sharma
Former General Manager, NTPC
Limited.



Dr. Kopal Verma
Junior Consultant, NIDM



Dr. Mani Madhukar
Program Manager,
Global University Programs,
IBM Research



Mr. Leo Peter Charles
Managing Director,
Jane Aerospace



Ms Fatima Binte Amin
Young Professional, NIDM

CO-CONVENERS:

Dr. Madhuri Kumari
Coordinator, AMCNAMC
Professor, Dept of Civil Engg.
Dy. Director, ASET, Amity
University, Noida

Dr. Ila Gupta
Coordinator, AMCNAMC
Professor and Head,
ASAP, Amity University
Gurugram

ORGANIZING SECRETARY

Prof. Alpana Srivastava
Program Director Head, Operation
Management, Statistics, Economics, IT
Amity Business School, Amity University,
Lucknow Campus

COORDINATORS:

Dr. Sweta Baidya Consultant,
ECDRM, NIDM
Dr. P. Mahakavi, Asst. Professor
Department of Civil Engineering,
ASET, AUMP, Gwalior Campus
Ar. Siddharth S. Jadon, Asst. Prof.
Amity School of Architecture &
Planning, Gwalior Campus

Session Links:

Day 1 : <https://youtu.be/LRjFQCICrFM>
Day 2 : <https://youtu.be/bqj4Ahy6c2k>
Day 3 : <https://youtu.be/LzpKq6n0BUc>
Day 4 : <https://youtu.be/PcJYWm5Kwfm>
Day 5 : <https://youtu.be/JFYzr9rr96Q>

For Registration & Details Visit:

<https://training.nidm.gov.in/>

Joining Link:

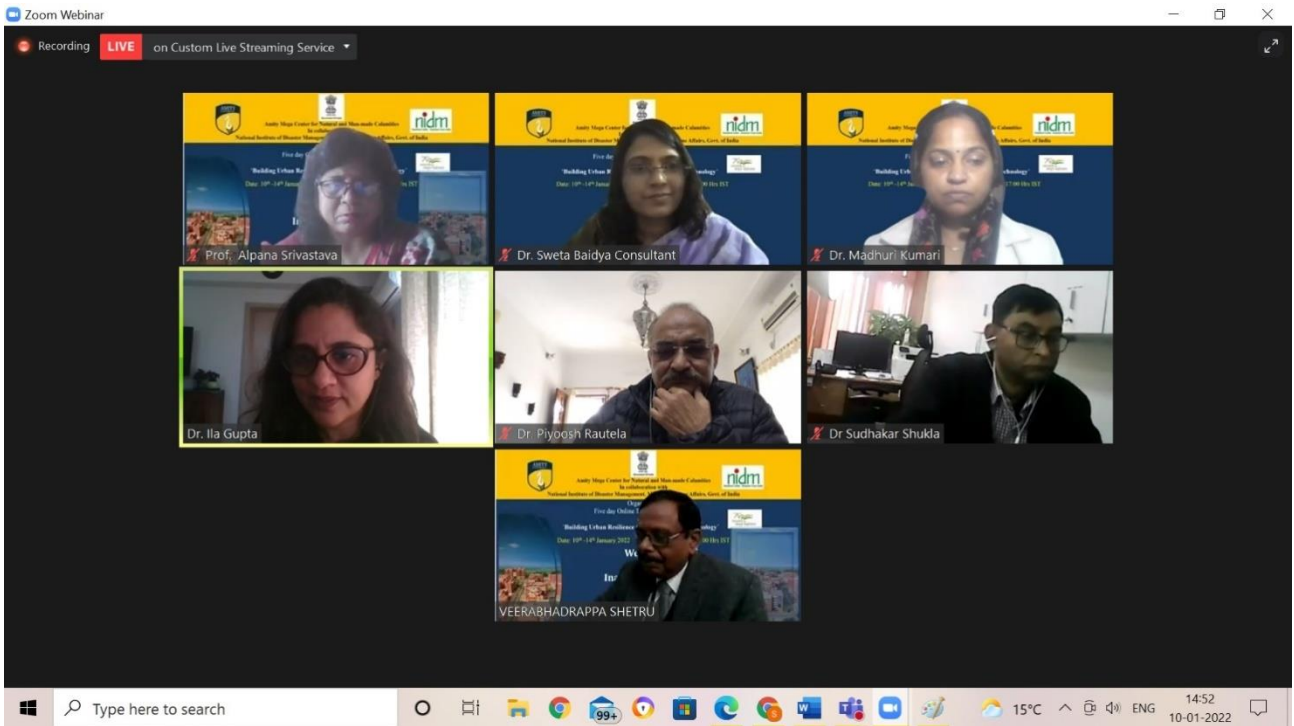
<https://amityuni.live/81393574273>

[/nidmmaindia](#) [/nidmindia](#)

Website: www.nidm.gov.in



Inaugural Session of the workshop



Climate change risk management

Categories:

Mitigation—efforts to reduce greenhouse gas emissions;

Adaptation—increasing society’s capacity to cope with changes in climate;

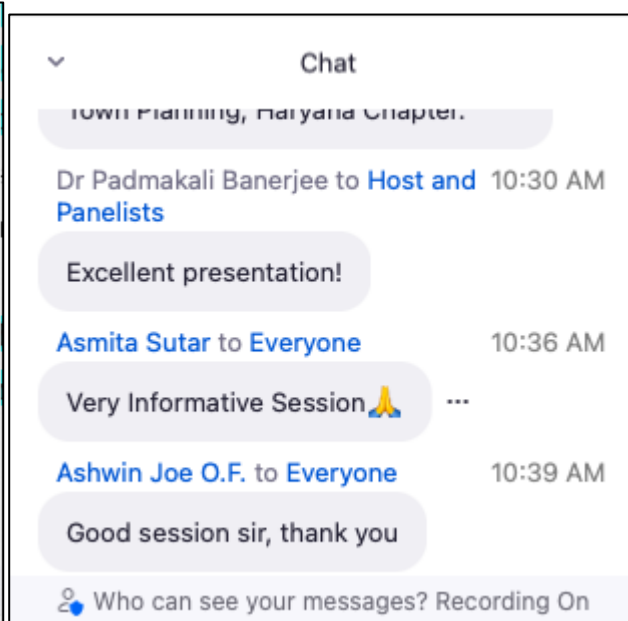
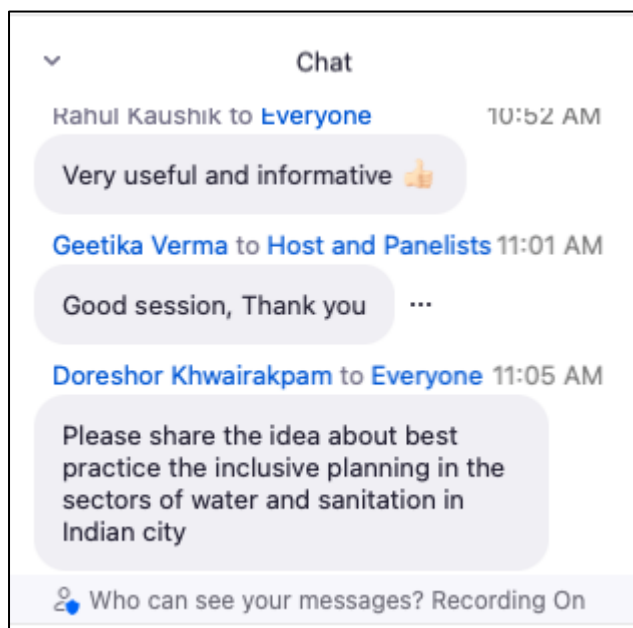
Geoenengineering or climate engineering—additional, deliberate manipulation of the earth system that is intended to counteract at least some of the impacts of greenhouse gas emissions; and

Knowledge-base expansion—efforts to learn and understand more about the climate system, which can help support proactive risk management.



3.9 Scanned copy of attendance sheets

3.10 Few Scanned feedback forms of participants



Attendance Sheet of Faculty Members (AUH)

Event Title: **Building Urban Resilience through Advanced Technology**

Date: 10 – 14th January 2022

S.No.	Participant Faculty Name	School	Designation	Signature
1	Dr. Ila Gupta	ASAP	Professor, Director	
2	Dr. Pallavi Sharma	ASAP	Professor	
3	Ar. Geetika Verma	ASAP	Assistant Professor	

4	Ar. Dilip S Kushwaha	ASAP	Assistant Professor	
5	Dr. Shashi Mehta	ASAP	Assistant Professor	
6	Mr Nitish Kumar	ASAP	Assistant Professor	

Dr. Ila Gupta

Name & Signature of the Event Coordinator

Attendance Sheet of Participants from outside (AUH)

Event Title: **Building Urban Resilience through Advanced Technology**

Date: 10 – 14th January 2022

S. No.	Name of the Participant	Email Address
1	A. K. M. THOHIDUL ALAM KHAN	thohidul.ce@gmail.com
2	Aashlesha Roy	aashlesharoy07@gmail.com
3	Aimen Abedi	abediainen@gmail.com
4	Ajay Gupta	Ajaygupta.mnc@gmail.com
5	AJEET SINGH	ajitsainpur96@gmail.com
6	Akanksha	techakankshabihar@gmail.com
7	Amar Sinha	sinhaamar21@gmail.com
8	Angelita C. Noses	angelitaknowcease@gmail.com
9	Anjali Mishra	anjalmishraanju15@gmail.com
10	Ankit Tiwari	at372340@gmail.com
11	Ankita Saha	ankita2203slg@gmail.com
12	Anurita Bhatnagar	anurita.bhatnagar@gmail.com
13	ArGeetika Verma	gverma@ggn.amity.edu
14	Ar. Raina Garg	raina.garg06@gmail.com
15	Ar. Rajeev Parashar	rparashar@gwa.amity.edu
16	Arveen Kaur	arveenkaur1991@gmail.com
17	Ashwin Joe O.F.	oashwinjoe@gmail.com
18	Aswathy.K	aswathykumar2020@gmail.com
19	Barsha Paul	2020mtplm006@spab.ac.in
20	Bobysingh	Bobytawar92@gmail.com
21	Chandan Dutta	duttachandan974@gmail.com
22	CHANDAN KISHORE	chandankishore321@gmail.com
23	Deepak kumardubey	deepak.dubey97@gmail.com

24	Deepak Singh Chahar	sandy786candy@gmail.com
25	Dr Ambrish Kumar Pandey	akpandey@lko.amity.edu
26	Dr ARUN BHADAURIA	abhadauria@amity.edu
27	Dr Ashok Kumar Yadav	akyadav1@amity.edu
28	Dr CharuBisaria	charubisaria1@gmail.com
29	Dr DAVINDER SINGH	manhasgis@gmail.com
30	Dr Himanshu Rastogi	hrastogi@lko.amity.edu
31	Dr Khushboo Agnihotri	kagnihotri@lko.amity.edu
32	Dr Manpreet Ola	mola@ggn.amity.edu
33	DR MOHAMMED OSAMA	osama4447@gmail.com
34	Dr Nimish Gupta	ngupta@lko.amity.edu
35	Dr Pratibha Singh	pratibha.economic@gmail.com
36	Dr R K Tomar	rktomar@amity.edu
37	Dr Sana Moid	sanamoid14@gmail.com
38	Dr Tanuj Mathur	tmathur@lko.amity.edu
39	Dr Upendra Nath Shukla	unshukla@lko.amity.edu
40	Dr. Arpita Bhattacharya	abhattacharya@amity.edu
41	Dr. G. SHARMILA BANU	gsharmilabanu@gmail.com
42	Dr. Imran Ahmad Khan	iakhan@gwa.amity.edu
43	Dr. Ajay Kumar Dadoria	akdadoria@gwa.amity.edu
44	Dr. Ashutosh Barua	abarua@gwa.amity.edu
45	Dr. Kumar Ganesan	kumarg@hku.hk
46	Dr. Pallavi Sharma	psharma3@ggn.amity.edu
47	Dr. Rajendra Kumar	Amity Business School, Amity University Uttar Pradesh
48	Dr. Renu Singh	renujmi@gmail.com
49	Dr. Sanjana Sharma Marwaha	ssharma37@amity.edu
50	Dr. Shashi Mehta	smehta@ggn.amity.edu
51	Dr. Shatrughan Singh	ssingh9@jpr.amity.edu
52	Dr. Sonali Banerjee	spbanerjee@amity.edu
53	Dr Usharani K	usharaniks2003@yahoo.com
54	Dr. Vimal Kumar Gupta	vkgupta@gwa.amity.edu
55	Dr. Zahoor Ahmad Rather	ratherzahoor1@gmail.com

56	Dr.Suniti Rani Bora	srbora@amity.edu
57	Dr.Vartika Singh	vsingh3@amity.edu
58	EDRIC J	edric2905@gmail.com
59	Gautam Makwana	gautam_makwana@hotmail.com
60	GOPAL BANSAL	gopalbansalgzb@gmail.com
61	Govind Kumar	ar.govind.kr@gmail.com
62	GURUDAS BAROI	gurudas22051999@gmail.com
63	Gurudath B S	gdath35@gmail.com
64	Harshita Srivastava	srivastavaharshita7697@gmail.com
65	Hemverna Dwivedi	hemvarna.d24@gmail.comn
66	Jai Karan Singh	mr.jaikaransingh@gmail.com
67	Juhi Priyanka Horo	juhipriyanka06@gmail.com
68	K. Akil	kannan.akil@gmail.com
69	Kadam pandurangkailas	pandurangkadam1630@gmail.com
70	Kadam ujalaramesh	Ujwala@123
71	Kamlesh Pandey	kpandey@amity.edu
72	Kishore Kumar Shah	gond.kkshah@gmail.com
73	LAU NAI KIN	launaikin@gmail.com
74	Lubna Siddiqui	s_lubna2004@yahoo.co.in
75	Lutmon sari	lutmonsari20@gmail.com
76	Madhavi Nikose	madhavinikose015@gmail.com
77	MalinHansepi	hansepimalyn07@gmail.com
78	Manisha Gawande	manisha.g.1611@gmail.com
79	Mankar Shital Balasaheb	shitalmankar2412@gmail.com
80	Manoj Kumar Jha	manoj61367@gmail.com
81	MANORANJAN NAYAK	drmnayak007@gmail.com
82	Mohammad Arif Shaikh	geoarifb4u@gmail.com
83	Mohsina Rizvi	mohsinarizvi3@gmail.com
84	Mr. AkshayjitPodder	chem.akshayjit.aus@gmail.com
85	Mr. Sukanta Debnath	sdn1j1974@gmail.com
86	Mridu Datta Ghosh	mridughosh@gmail.com
87	Mrs Savita Anant Wakchoure	savita31wakchoure@gmail.com
88	Narendra Kumar Garg	nkgarg41@gwa.amity.edu

89	Neeru Gupta	neeruelocity@gmail.com
90	Neha Gautam	neha.gtm19@gmail.com
91	Nidhi Khandelwal	nidhi.janu.khandelwal@gmail.com
92	NISHANT MISRA	nmishra.pratapgarh@gmail.com
93	Nishtha Ranjan	nranjan@amity.edu
94	Nishtha Verma	nverma1223@gmail.com
95	Nitesh Kumar Mourya	princeofmouryaempire@gmail.com
96	NITIN SUDHAKAR SHIURKAR	nsure2020@gmail.com
97	PANKAJ KUMAR BANSAL	pankajkumarbansalgzb@gmail.com
98	PATIL DATTATRAYA BHANUDAS	dattatrayap47@gmail.com
99	Pragya Mishra	pragya.mishra8315@gmail.com
100	Prakhar Duggal	prakharduggal@gmail.com
101	Prakhar Tripathi	prakhar2419tripathi@gmail.com
102	Pratibha Singh	pratibha.economics@gmail.com
103	Pravin Dhat	pravindhat@gmail.com
104	Prof Rohit Kushwaha	rkushwaha@lko.amity.edu
105	Prof.Dr.I.Manavalan	imanavalan56@gmail.com
106	Prosun Roy Chowdhury	prosunrc2017@gmail.com
107	Rahul Gupta	rgupta10@amity.edu
108	RAJESH AGRAWAL	ar.rajeshagrawal@gmail.com
109	RAM SHANKAR SAH	ramshankarsah@gmail.com
110	RAMESH P	rameshketpoly10@gmail.com
111	Ramya Singh	ramyasingh1997@gmail.com
112	Rashmi Tripathi	rtripathi@lko.amity.edu
113	RAVINDRA REDDY M	ravindraoudepts@gmail.com
114	Ripudaman Singh	ripudaman1@hotmail.com
115	Rushil Varma	rushil.varma.93@gmail.com
116	Samarth Pande	spande2@lko.amity.edu
117	Sana Rafi	snrafi18@gmail.com
118	Sanjeev Gupta	fdpsanjeevpreeti@gmail.com
119	Shiny. P. K	Shinyprajod@gmail.com
120	Shubham Badola	shubham.badola@gmail.com
121	SIDDHARTH P.BETTAJEWARGI	spbettajewargi@ggn.amity.edu

122	Siddharth Singh jadona	ssjadon@gwa.amity.edu
123	Sidrat Ul MuntahaAnees	s.anees13@gmail.com
124	Simran Sahu	simransahu8887@gmail.com
125	Smita Kumari	aksaryaaks@gmail.com
126	Sonika Gupta	sonika_gupta008yahoo.com
127	Subhajit Dey	subhajitdeygeo@gmail.com
128	Vaibhava Singh	vaibhav867@gmail.com
129	Vinod Shankar Tripathi	vinod.vin3577@gmail.com
130	VIRENDRAKUMAR M. THAKKAR	virendrakumarthakkar@gmail.com
131	WAFULA PETER	pwafula69@gmail.com
132	Zarana Upadhyay	tlshcommerce@gmail.com
133	SURESH CHANDRA NAYAK	sureshchandranayak1@gmail.com

Dr. Ila Gupta

Name & Signature of the Event Coordinator

Signature of HOI

Stamp of the Department