





# **IGDTUW Anveshan Foundation**

A Business Incubator Promoted by INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN (IGDTUW)

# PAVING WAY FOR WOMEN ENTREPRENEURSHIP THROUGH ORGANIC DEVELOPMENT



#### Inside this issue:

- Message from Chairperson
- Board of Directors
- Awards and Accolades
- Events Conducted
- Our Incubatees and Pre-Incubation
- Towards Sustainable Development



# **ABOUT US**



'IGDTUW – Anveshan Foundation' is a business incubator, as section 8 company promoted by Indira Gandhi Delhi Technical University for Women (IGDTUW) Delhi and recognized by Department of Science & Technology (DST), GoI as Technical Business Incubator.

Working towards the advent of a new age of entrepreneurial pursuits of youth that focus of autonomous generation of employment opportunities and global competition by nurturing budding innovators to tap into their uncharted reserves of prowess and potential, Anveshan Foundation facilitates Next Generation Entrepreneurship, expediently blending creativity, innovation and engineering, product design, and leveraging emerging technologies to evolve out-of-the-box applications.

IGDTUW – Anveshan Foundation was set into stone on 13th October 2016 to develop entrepreneurial eco-system, start-ups and all business incubation related activities that can contribute towards the expansion of the employment sector, social and economic development while imparting real-world, relevant professional experience.

Indira Gandhi Delhi Technical University for Women (IGDTUW) is a technical university exclusively for women and therefore it is our commitment also towards the upliftment and empowerment of women in the society by promoting and assisting Women Entrepreneurs and Enterprises. The Main objective of our business incubator is to facilitate the inception of start-ups and entrepreneurial culture among pioneering innovators.

# Vision, Mission & Objective

#### Vision

To serve as a national platform for innovation and business incubation in order to support and assist women in entrepreneurship and to promote the concept of technology entrepreneurship, and convert business ideas into successful business opportunities.

#### Mission

- To encourage technological innovation and accelerate the development of commercially viable businesses in technology and allied sectors by providing a nurturing and supportive environment in fostering entrepreneurial ecosystem.
- To accord significant contribution in the economic health through attracting new women enterprises in technological and allied sectors/industries and helping existing businesses to be more successful.
- To promote excellence in learning and training, technology development & transfer and external engagement that promotes innovation and entrepreneurship through collaboration and partnership.

### Objective

- To conduct multiple propitious programs, sessions, workshops, boot camps and competitions in the domain of entrepreneurship and start-up to motivate students and scholars.
- To motivate and shape students into autonomous employers in the society through creation of successful business ventures.
- To facilitate the availability of IGDTUW Anveshan Foundation's resources and seed-money to the incubates in a mutually beneficial way throughout their incubation period.
- To provide guidance and mentoring to budding entrepreneurs, boosting their confidence and helping them to take their business ideas to market in minimum possible time frame.
- To provide a conducive working environment to the e-cell members and incubates to nurture their innovative ideas.



# FROM THE CHAIRPERSON'S DESK



IGDTUW Anveshan Foundation is committed to contribute its best in the development of Start-up Ecosystem in India. We believe in capturing and nurturing talent to convert them future leaders. These leaders make their organizations strong and actually play important role in employment generation which is in line with the sustainable development goals of UNDP.

Anveshan is supported by Government of NCT of Delhi and is now a technical business incubator of Department of Science & Technology, Gol. Apart from all the state of art facilities at Anveshan, mentoring has always proven as our strong strength. We have a capable pool of mentors, faculty mentors and other technical experts for prototyping and MVP developments. Anveshan provides freedom to the students and young entrepreneurs to do mistakes and learn from failures. It is believed that useful innovation appears only after mistakes.

We are working very close to the National Education Policy – 2020 of MoE. Anveshan, not only believes in 'Learning' rather it focuses in 'Learn, how to learn'. Along with our education system, entrepreneurial education and development at Anveshan is at par with global standards.

Dr. (Mrs.) Amita Dev Chairperson





# FROM THE MANAGING DIRECTOR'S DESK



To have a positive impact and future ready compliances we need to understand the importance of 'Make in India for the World'. Today India has highest youth population of the world which has both its pros & cons and we need to convert it as an opportunity. World need useful innovations, job market creations, economic values and peace.

Our mission is to encourage technological innovation and accelerate the development of commercially viable businesses in technology and allied sectors by providing a nurturing and supportive environment in fostering entrepreneurial ecosystem.

I would personally extend my gratitude to the Honourable Chairperson and other board members of Anveshan Foundation for their continuous vital support. Students who are inclined as budding entrepreneurs are welcome to interact with us.

Together we will bring a positive change in the society for the society.

Dr. Arun Sharma Managing Director

Em Garme



# FROM THE CHIEF EXECUTIVE OFFICER'S DESK



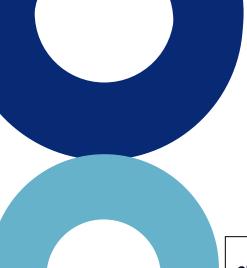
Welcome to 'IGDTUW Anveshan Foundation', Delhi's best incubation center exclusively for women entrepreneurs (and women enterprises). Whether you are starting with just an idea or looking for a growth path or at the situation of sustainability, we are committed for your long-term success.

Anveshan provides best facilities for its pre-incubatees and incubatees. We also have provision of seed funding. For the harness of the entrepreneurial ecosystem, Anveshan also runs various programs and events for students, budding entrepreneurs, faculty members and mentors from all over India (both online and offline) and co-incubation support.

I urge the entire budding women entrepreneur to feel confident in contacting us. Your contribution and hard work will not only fulfil your dreams but also pivotal for the society and thereby national interest.

With best wishes,

Dr. V K Arora Chief Executive Officer



# **BOARD OF DIRECTORS**



Dr. (Mrs.) Amita Dev
Chairperson – IGDTUW Anveshan Foundation &
Vice- Chancellor, IGDTUW



Dr. Arun Sharma

Managing Director – IGDTUW Anveshan Foundation

& Professor – IT Department, IGDTUW



Dr. Ranu Gadi
Director – IGDTUW Anveshan
Foundation &
Professor – Applied Sciences and
Humanities, IGDTUW



Dr. Jasdeep Kaur Dhanoa
Director – IGDTUW Anveshan
Foundation &
Professor - ECE Department,
IGDTUW



Dr. Manoj Soni
Director – IGDTUW Anveshan
Foundation &
Professor –MAE Department,
IGDTUW

### **OUR TEAM**



Dr. V K Arora
Chief Executive Officer
IGDTUW Anveshan Foundation

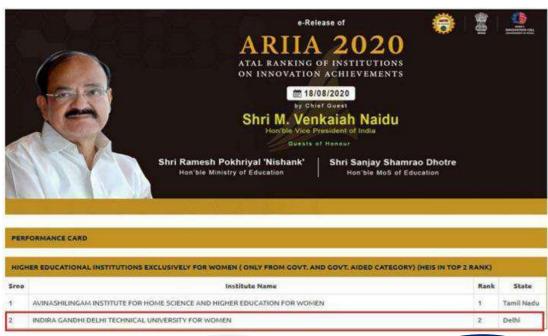


Mr. Rahul Sachdeva
Dy. Manager
IGDTUW Anveshan Foundation

# **AWARDS AND ACCOLADES**

IGDTUW was accredited with the 'Rank-2' under Women Colleges and Universities and in 'Band A' under Overall Ranking in Atal Ranking of Institutions on Innovation Achievements (ARIIA)-2020 Award by Hon'ble Vice President of India on August 18, 2020





# **AWARDS AND ACCOLADES**

IGDTUW has secured 77<sup>th</sup> position in the overall "World's Universities with Real Impact (WURI)" Ranking, "WURI: Innovative Universities for 2020". The University also placed 21<sup>st</sup> in the special category "Entrepreneurial Spirit" of WURI ranking, 2020.

#### WURI 2020: Global Top 100 Innovative Universities (1-100)

Rank	Name	Country	Rank	Name	Country
- 9	Stanford University	USA	26	University of Tokyo	Japan
2	Massachusetts Institute of Technology	USA	27	University of Gothenburg	Sweden
3	Aalto University	Finland	28	Tampere University	Finland
4	Harvard University	USA	29	Ohio State University	USA
- 6	Minerva Schools at Keck Graduate Institute	USA	30	University of California, Merced	USA
65	California Institute of Technology	USA	3.1	University of Chicago	USA
7	Arizona State University	USA	32	Peking University	China
10	University of Pennsylvania	USA	33	Yale University	USA
9	Hanze University of Applied Sciences	Netherlands	33-6	Simon Fraser University	Canada
10	Qinghua University	China	35	Incheon National University	Korea
11	University of Cambridge	UK	36	RWTH Aachen University	Germany
12	Princeton University	USA	37	Cheung Kong Graduate School of Business*	China
13	National University of Singapore	Singapore	38	University of Bonn	Germany
14	University of California, Berkeley	USA	39	Northwestern University	USA
10	Seoul National University	Korea	40	Sussex University	UK
16	Singularity University	USA	41	Abdullah Gül University	Turkey
17	Ecole 42*	France	42	Hong Kong University of Science and Technology	Hong Kon
10	University of Oxford	UK	43	Deggendorf Institute of Technology	Germany
19	University of Copenhagen	Denmark	44	Aix-Marseille University	France
20	Olin College of Engineering*	USA	45	University of Twente	Netherland
21			46	Florida State University	USA
21	Kyoto University	Japan	47	Northern Arizona University	USA
	Boston University				
23	Free University of Bertin	Germany	48	Trinity College	USA
24	Duke University	USA	49	University of Basel	Switzerland
25	Columbia University	USA	50	University of Technology Sydney	Australia
Rank	Name	Country	tank	Name	Country
51	Flinders University	Australia	76	Printeger and Allesta and Alextaneously.	Kere
52	Beijing Normal University	China	77 1	Indira Gandhi Delhi Technical University for Women	India
53	University College Dublin	Ireland		- sweeting-er-eight	CONTROL OF THE PARTY OF THE PAR
54	George Mason University	USA	79	Badr University in Cairo	Egypt
55	University of Vienna	Austria	80	Burapha University	Theiland
56	Franklin University Switzerland	Switzerland	81	University of Catania	Italy
57	Kyushu University	Japan	82	Belgorod State National Research University	Russia
58	University of Oulu	Finland	83	IEDC-Bled School of Management	Slovenia
		Primings.			
59	Hankuk University of Foreign Studies	Korea	84	University of Denver	USA
60					
	Hankuk University of Foreign Studies	Korea	84	University of Denver	USA
60	Hankuk University of Foreign Studies University of Antwerp	Korea Belgium	84	University of Denver Maharania Cluster University	USA
60	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School	Korea Belgium UK	84 85 86	University of Denver Maharanis Cluster University Tra Vinh University	USA India Vietnam
60 61 62	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College	Korea Belgium UK USA	84 85 86 87	University of Denver Maharania Cluster University Tra Vinh University Northern Kentucky University	USA India Vietnam USA
60 61 62 63	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute*	Korea Belgium UK USA Japan	84 85 86 87 88	University of Denver Maharanis Cluster University Tra Vinh University Northern Kentucky University Beijing Technology and Business University	USA India Vietnam USA China USA
60 61 62 63 64	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University	Korea Belgium UK USA Japan Australia	84 85 86 87 88	University of Deriver Meharanis Cluster University Tre Vinh University Northern Kentucky University Beijing Technology and Business University Foundry Colleger	USA India Vietnam USA China USA Indonesia
60 61 62 63 64 65	Hankuk University of Foreign Studies University of Antwerp Brighten and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University College London	Korea Belgium UK USA Japan Australia UK	84 85 86 87 88 89	University of Denver Maharania Cluster University Tra Vinh University Northern Kentucky University Beijing Technology and Business University Foundry College* Tellkom University	USA India Vietnam USA China
60 61 62 63 64 65 66	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University College London Florida Gulf Coast University	Korea Belgium UK USA Japan Australia UK USA	84 85 86 87 88 89 90 91	University of Deniver Meharanis Cluster University Tre Vinh University Northern Kentucky University Beijing Technology and Business University Foundry Colleger Telkom University For Eastern University	USA India Vietnam USA China USA Indonesia Philippines
60 61 62 63 64 65 66 67	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University Gone University Cueen's University	Korea Belgium UK USA Japan Australia UK USA Canada	84 85 86 87 88 89 90 91 92	University of Denver Meharanis Cluster University Tra Vinh University Northern Kentucky University Beijing Technology and Business University Telkonology and Business University Far Eastern University Far Eastern University Kensel University	USA India Vietnam USA China USA Indonesia Philippines Japan
60 61 62 63 64 65 66 67 68	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University College London Florida Gulf Coast University Queen's University Samsung Art and Design Institute*	Korea Belgium UK USA Japan Australia UK USA Canada Korea	84 85 86 87 88 89 90 91 92 93	University of Denver Meharanis Cluster University Tre Vinh University Northern Kentucky University Beijing Technology and Business University Foundry Colleger Telkom University Far Eastern University Kensel University University of Delhi	USA India Vietnam USA China USA Indonesia Philippiner Japan India
60 61 62 63 64 65 66 67 68 69 70	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University College London Florida Gulf Coast University Queen's University Samsung Art and Design Institute* Rensselaer Polytechnic Institute University of Lincoln	Korea Belgium UK USA Japan Australia UK USA Canada Korea USA UK UK	84 85 86 87 88 89 90 91 92 93 94 95	University of Deniver Meharanis Cluster University Tra Vinh University Northern Kentucky University Beiging Technology and Business University Foundry Colleger Telkom University Far Eastern University Kensai University University of Delhi University of Athens Hamburger University	USA India Vietnam USA China USA Indonessa Philippine Japan India Greece USA
60 61 62 63 64 65 66 67 68 69 70 71	Harrkut, University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University College London College London College London Guernis University Samsung Art and Design Institute* Renselaer Polytechnic Institute University of Unicoln Temple University	Korea Belgium UK USA Japan Australia UK USA Cariada Korea USA UK UK	84 85 86 87 88 89 90 91 92 93 94 95 96	University of Deniver Maharanis Cluster University Tra Vinh University Northern Kentucky University Beijing Technology and Business University Foundry College' Telkom University Kansai University University of Delhi University of Delhi University of Delhi University of University American University of Res Al Khalmah	USA India Vietnam USA China USA Indonesia Philippinei Japan India Greece USA
60 61 62 63 64 65 66 67 68 69 70 71	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University College London Florida Gulf Coast University Queen's University Samsung Art and Design Institute* Renssetaer Polytechnic Institute University of Lincoln Temple University Polytechnic Institute Gregança	Korea Belgium UK USA Japan Australia UK USA Canada Korea USA UK USA VXA Portugal	84 85 86 87 88 89 90 91 92 93 94 95 96	University of Denver Meharanis Cluster University Tra Vinh University Northern Kentucky University Beijing Technology and Business University Foundry Colleger Telkom University Far Eastern University Kansai University University of Delhi University of Delhi University of Athens Hamburger University American University American University Ras Al Khalmah Cranfield University	USA India Vietnam USA China USA Indonesia Philippine Japan India Greece USA UAE UK
60 61 62 63 64 65 66 67 68 69 70 71 72 73	Harrkutk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University Gollege London Florida Guif Coast University Samsung Art and Design Institute* Rensselaer Polytechnic Institute University of Unicoln Temple University Polytechnic Institute of Bregança Dubtin City University	Korea Belgium UK USA Japan Australia UK USA Canada Korea USA UK USA UK USA UK USA UK USA UK USA UK USA UK USA UK USA UK USA UK UK USA UK UK UK UK UK UK UK UK UK UK UK UK UK	84 85 86 87 88 89 90 91 92 93 94 95 96 97	University of Deriver Maharanis Cluster University Tre Vinh University Tre Vinh University Northern Kentucky University Beijing Technology and Business University Foundry College* Telkom University Far Eastern University Kanesi University Kanesi University University of Albens Hamburger, University American University of Res Al Khalmeh Cranfield University University of the People*	USA India Vietnam USA China USA Indonesia Philippines Japan India Greece USA UAE UKA
60 61 62 63 64 65 66 67 68 69 70 71	Hankuk University of Foreign Studies University of Antwerp Brighton and Sussex Medical School Sarah Lawrence College Toyota Technological Institute* Monash University University College London Florida Gulf Coast University Queen's University Samsung Art and Design Institute* Renssetaer Polytechnic Institute University of Lincoln Temple University Polytechnic Institute Gregança	Korea Belgium UK USA Japan Australia UK USA Canada Korea USA UK USA VXA Portugal	84 85 86 87 88 89 90 91 92 93 94 95 96	University of Denver Meharanis Cluster University Tra Vinh University Northern Kentucky University Beijing Technology and Business University Foundry Colleger Telkom University Far Eastern University Kansai University University of Delhi University of Delhi University of Athens Hamburger University American University American University Ras Al Khalmah Cranfield University	USA India Vietnam USA China USA Indonesiis Philippine Japan India Greece USA UAE UK

# WURI 2020: Top 50 (Entrepreneurial Spirit)

Rank	Name	Country	Rank	Name	Coun
1	Aalto University	Finland	26	Beijing Technology and Business University	Chin
2	Hanze University of Applied Sciences	Netherlands	27	Foundry college*	US/
3	Princeton University	USA	28	University of Athens	Gree
4	University of California, Berkeley	USA	29	Hupan University*	Chin
5	University of Tokyo	Japan	30	Minerva Schools at KGI*	USA
6	University of Chicago	USA	31	Toyota Technological Institute*	Japan
7	Simon Fraser University	Canada	32	Draper University*	USA
8	Deggendorf Institute of Technology	Germany	33	Arizona State University	USA
9	University of Twente	Netherlands	34	Ajou University	Korea
10	University of Basel	Switzerland	35	King Mongkut's Institute of Technology Ladkrabang Business School	Thailand
11	George Mason University	USA	36	Riga Technical University	Latvia
12	Kyushu University	Japan	37	Kyungpook National University	Korea
13	University of Oulu	Finland	38	Duke University	USA
14	Monash University	Australia	39	Soonchunhyang University	Korea
15	Queen's University	Canada	40	Burapha University	Thailand
16	Samsung Art and Design Institute*	Korea	41	Vytautas Magnus University	Lithuania
17	Rensselaer Polytechnic Institute	USA	42	University of Tartu	Estonia
18	Temple University	USA	43	University of Minho	Portugal
19	Polytechnic Institute of Bragança	Portugal	44	University of Aveiro	Portugal
20	Dublin City University	Ireland	45	Chitkara University	India
21	Indira Gandhi Delhi Technical University for Women	India	46	Singapore Management University	Singapore
22	University of Catania	Italy	47	University of York	UK
23	IEDC-Bled School of Management	Slovenia	48	Linnaeus University	Sweden
24	Tra Vinh University	Vietnam	49	Hamad Bin Khalifa University	Qatar
25	Northern Kentucky University	USA	50	Ashesi University	Ghana

# AWARDS AND ACCOLADES Student's Achievement

# GANDHIAN YOUNG TECHNOLOGICAL INNOVATION AWARD



The Hon'ble Vice President of India, Shri M. Venkaiah Naidu awarded the Gandhian Young Technological Innovation (GYTI) Award to Manasi Mishra, Indira Gandhi Delhi Technical University for Women (IGDTUW) at the Awards function held at Vigyan Bhawan

#### **FACEBOOK ANNUAL CONFERENCE**



Ms. Shubhangi Misra, CSE was the only Indian women HACKATHON participant awarded the invitation to 'FACEBOOK' Annual Conference and Won prizes:

- Global Prize Award of USD 10,000
- Regional Prize Award of USD 3,000



# AWARDS AND ACCOLADES Student's Achievement

#### **SMART INDIA HACKATHON 2020 WINNERS**



#### Team 1:

- 1. Shivalika Goel (7th Sem- IT)-Team Leader
  - 2. Ragini Sharma (7th Sem-IT)
  - 3. Surmayi Sharma (7th Sem-IT)
  - 4. Anushree Mishra (5th Sem-ECE)
  - 5. Aarushi Singh (7th Sem-CSE 1)
  - 6. Nimisha Gupta (7th Sem-CSE 1)

#### Team 2:

- 1.Akanksha Chandna (CSE 2 )- Team Leader
  - 2.Komal Kirti (7th Sem-CSE 2)
  - 3.Lubhani Agarwal(7th Sem-CSE 2)
  - 4. Pallavi Bishnoi(7th Sem-CSE 2)
    - 5. Kuja(7th Sem-CSE 2)
  - 6. Yaashi Madan(7th Sem-CSE 2)





# PRESTIGIOUS COLLABORATIONS

IGDTUW Anveshan Foundation is now DST funded 'Technology Business Incubator'. A total of 5.04 Crore funding over five years' time span is to be disbursed to make Anveshan self-reliant. State of art laboratories like advanced 3D Lab, Advanced Robotics Cell, Rapid Prototyping Lab, Drone Lab and full ICT infrastructure are to be created.



In prestigious collaboration with GiZ Germany (i.e. Deutsche Gesellschaft für Internationale Zusammenarbeit, GmbH), Anveshan Foundation is organising various activities like a) Boot camps, b) Networking with other incubators (CEO Meets), c) Training & Workshops for capacity building and Demo/ Pitch Days.









IPR Cell i.e. Intellectual Property Rights Division is formed to help students, scholars, incubatees and faculty members on Trademarks, Copyrights, Patents, Design registrations and trade secrets. A fruitful MoU with Ennoble IP has been signed on this regard.

**INNOPRENEUR – Business Plan Competition** 



IGDTUW Anveshan Foundation, with relentless support and assistance from IGDTUW conducted a regional level competition 'Innopreneur - 2020'. The event served as a zealous opportunity for aspiring contestants to present and showcase their unique business ideas. The program was conducted in association with Lemon Ideas, Lemon School of Entrepreneurship and GiZ on 03<sup>rd</sup> January 2020 at Indira Gandhi Delhi Technical University for Women, Delhi.

Twenty-three teams from various institutions and incubation centers (of Northern India) had participated in the contest. Five teams were shortlisted to proceed to the National level, out of which the following two teams were the Incubatees of IGDTUW Anveshan Foundation.

- a) ETI Labs Private Limited promoted by Ms. Manasi Mishra
- b) SteamEdu Learning Private Limited founded by Dr. Rashmi Tyagi





MENTORSHIP SESSIONS FOR STARTUPS: SERIES



The prime objective of IGDTUW Anveshan Foundation is to motivate and facilitate budding women entrepreneurs towards their successful entrepreneurial journey, proving their success story, contributing entrepreneurial spawning and ultimately converging benefits to the society. Furthermore, to achieve this objective various mentoring session to mentor/ advice startups, incubatees, entrepreneurship aspirants and to foster entrepreneurial and startup ecosystem were organized by IGDTUW Anveshan Foundation. One such initiative was 'Mentorship Session: Startup Series', under which various sessions were conducted in recent time by calling various experts from startup ecosystem. Each session was followed with one to one Question and Answer round. These questions were answered using pragmatic experience of the experts. This initiative was also supported by the Indo-German project on innovation promotion (MSME) and GIZ i.e. Deutsche Gesellschaft für Internationale Zusammenarbeit, GmbH which has been providing technical and strategic support to the incubators to carry on startup promotion activities as well.

## MENTORSHIP SESSIONS FOR STARTUPS: SERIES

Anveshan Foundation left no stone unturned and strived hard in achieving success by adopting and shifting to newer means of imparting education and conducting events online. A detail of Eleven such sessions is mentioned below.

Sr. No.	Mentorship Session	Date of Conduct	Speaker(s) for the Mentorship Session
1	Mentorship Sessions for	25-02-2020	1. Dr. Poonam Sinha, Director, NIESBUD
1.	Startups: <b>Series 1</b>	25-02-2020	2. Mr. Prasun Kumar, Marketing Head, Magicbricks
2.	Mentorship Sessions for	03-05-2020	1. Shri. Arvind Jha, Pariksha Labs Private Limited
۷.	Startups: <b>Series 2</b>	03-03-2020	2. Ms Arushi Tangri, Advocate, Delhi High Court
			1. Mr. Harish Kalra Advisor, Finance Optima (Fintech)
3.	Mentorship Sessions for	17-05-2020	and Tail spinner
J.	Startups: <b>Series 3</b>	17-03-2020	2. Ms. Apurva Chawla, Investment Team Member, India
			Quotient
4.	Mentorship Sessions for	24-05-2020	1. Ms. Aarti Kalra Regulatory, Lead, Startup India
т.	Startups: <b>Series 4</b>	24 03 2020	2. Mr. Ajit Jain, Agile Coach, WIPRO Digital
	Mentorship Sessions for		1. Ms. Tripti Singhal Somani, CEO & MD, KGS Advisors
5.	Startups: <b>Series 5</b>	12-07-2020	LLP
	•		2. Mr. Anuj Goel, Director, VQMS Private Limited
6.	Mentorship Sessions for	09-08-2020	1. Ms. Anila Alam, Founder, Mitti Café
0.	Startups: <b>Series 6</b>	05 00 2020	2. Mr. Rahul Lakhmani, CEO and MD , Skiify
7.	Mentorship Sessions for	06-09-2020	1. Mr. Arun Sharma, Executive Director, KPMG, Gurgaon
/.	Startups: <b>Series 7</b>	00 03 2020	2. Ms. Geetika Dayal, Executive Director, TiE, Delhi NCR
			1. Mr. Erik Azulay, Executive Director, Nexus Incubation
8.	Mentorship Sessions for Startups: <b>Series 8</b>	13-09-2020	Hub
0.			2. Mr. Mayank Sood, Partner and Patent Attorney at K &
			S Partners
	Mentorship Sessions for		1. Ms. Sushma Morthonia, Director General, India SME
9.	Startups: <b>Series 9</b>	31-10-2020	Forum
	Startaps. Cerres 5		2. Mr. Harish Chandra, CTO, Sarovar Hotels and Resorts
			1. Dr. Sudeendra Koushik, Chief Innovator & Co-Founder,
			PRASU
10.	Mentorship Sessions for	28-11-2020	2. Ms. Mamta Chauhan, Chief Coordinator-International
	Startups: <b>Series 10</b>		Business, Institute of Entrepreneurship Development,
			Lucknow
	Mentorship Sessions for		1. Sh. Arun Nagpal, Co-founder & MD, Mrida Group
11.	Startups: Series 11	06-12-2020	2. Ms. Sowmya Moni, Director – Marketing, Incuture
			Technologies

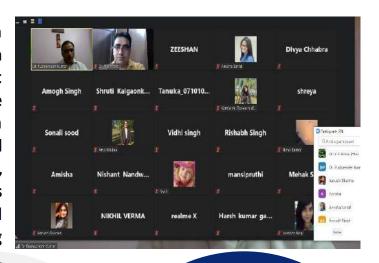
#### ONLINE SUMMER INTERNSHIP FOR SIX WEEKS

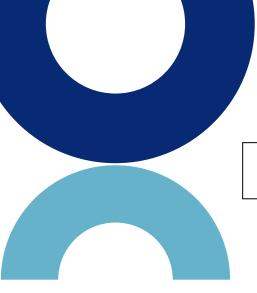


Under these unprecedented time, Anveshan Foundation took initiate by undertaking an extensive exercise of shifting to newer means of imparting education by launching Six Weeks Online Internship Program on 'Startup Management' from 15<sup>th</sup> June 2020 till 24<sup>th</sup> July 2020

The program commenced on 15<sup>th</sup> June 2020. Dr. Amita Dev, the honorable Vice-Chancellor, Indira Gandhi Delhi Technology University for Women (IGDTUW) resided as the Chief Guest of the Inaugural Event and Shri. Harish Chandra, CTO, Sarovar Hotels and Resorts, was the Guest of Honour for its inaugural event. All the Directors of Anveshan Foundation Dr. Arun Sharma, Dr. Ranu Gadi, Dr. Jasdeep Kaur Dhanoa, Dr. Seeja K R, and Dr. Manoj Soni too were present online.

Various topics, such as Marketing Research and Strategic Implementation, Human Resource Management for Startups, Project Reports, etc., were discussed. The initiative witnessed enthusiastic participation of from zealous innovators across the nation proved fruitful for the in such time. Dr. V K Arora, CEO, IGDTUW Anveshan Foundation served as the Chief Resource Person. Ten additional experts graced the occasion by enlightening the audience with their erudition and wisdom.





# THREE MONTH COURSE ON 'INNOVATION AND ENTREPRENEURSHIP'

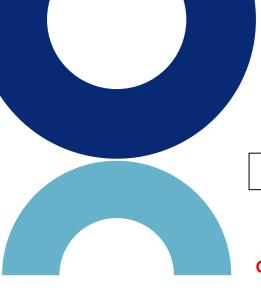


The Anveshan Foundation has undertaken an extensive exercise and modernize its academics to conduct events and launched Unique Course on 'Innovation and Entrepreneurship' to offer as Open General Elective to Students.

In association with GiZ i.e. Deutsche Gesellschaft für Internationale Zusammenarbeit, GmbH (Germany), IGDTUW Anveshan Foundation launched a unique online Course on 'Innovation & Entrepreneurship' to enlighten aspiring entrepreneurs on their endeavors to success. The course's objectives were to foster innovation and agility among the spearheads of innovation, especially women led initiatives through the additional, meticulous delivery of the pioneering keys of business success and assist the participants to develop a profound cognizance of the Indian Entrepreneurial Ecosystem and explain them the keys for business success.

Program was inaugurated on 21st September 2020, in presence of Honourable Vice-Chancellor and Chairperson IGDTUW Anveshan Foundation Prof. Amita Dev and the Guest of Honour Mr. Vinod Kumar, President, India SME Forum. Program is expected to conclude by 31st December 2020.

The National Level program witnessed enthralling participation from budding innovators across the nation.



#### **GANDHI YOUNG INNOVATIVE IDEA AWARD – 2020**

On the 151st Birth Anniversary Celebration of Mahatma Gandhi on 02/10/2020, Gandhi Young Innovative Idea (GYII)

Award – 2020 was organized



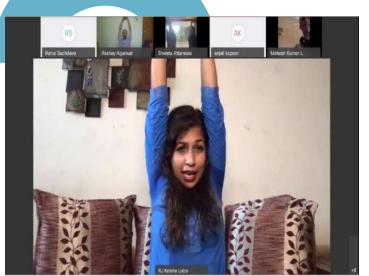
The competition witnessed immense participation from the students of IGDTUW. Students submitted various viable and feasible ideas with the prime objective to facilitate the resolution of social/industry problems with the expedient assistance and application of technology. Selected students were further guided for pre-incubation and incubation under IGDTUW — Anveshan Foundation. Students pertaining to diverse educational background participated in the event and the pioneering ideas were accredited with cash prizes.

#### Awardees of the GYII were as below:

Position	Name	Cash Award	Dept. / Sem	Project Title
1st	Kshitija Shekhar Mansi Bansal Shubhangi Gupta	INR 5,000/-	B.Tech. CSE 7th Sem	RAAHEE -AN APP FOR MENTAL HEALTH SERVICES
2nd	Muskan Jain	INR 3,000/-	B.Tech. ECE 7th Sem	BSAFE - WEARABLE WOMEN SAFETY DEVICE
3rd	Pooja Gambhir Surbhi Khurana	INR 2,000/-	Ph.D. Scholars	VOICE ASSISTIVE SMART STICK FOR THE VISUALLY IMPAIRED
Consolation	Bhumika Banswal	INR 1,000/-	B.Tech. IT 3rd Sem	DAAN UTSAV
Consolation	Jyoti Meena	INR 1,000/-	M. Plan 1st Sem	PREVENTING ENCROACHMENT USING URBAN INFORMATICS
Consolation	Akanksha Saini Vandna Choudhary Rashmin & Shivani	INR 1,000/-	B.Tech. IT 3rd Sem	ONSCREENPAPER
Consolation	Virali Purbey	INR 1,000/-	B.Tech. CSE 7th Sem	GET SET LEARN

## **WELLNESS BOOTCAMP**

'Good Health: A Key for Entrepreneur Success'





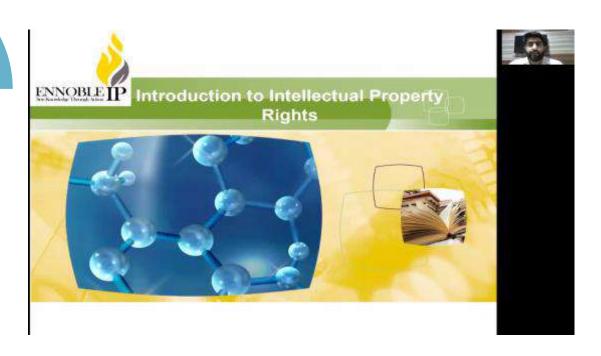
In Association with GiZ- Deutsche Gesellschaft für Internationale Zusammenarbeit, GmbH (Germany), Anveshan Foundation conducted a two-day Online Boot Camp on Good Health in collaboration with SwasthAayu, on 27th – 28th Nov, 2020. The primary aim of the program was to increase the participants' awareness towards the indispensible importance of holistic health and how it can positively impact their businesses.

Participants from all over India registered for the program and actively engaged in the bootcamp. Details of the sessions and their respective speakers are given below.

Title/ Activity	Speaker	Description	
Inaugural	Inauguration of the Program		
Session 1	Mr. Akshay Agarwal	Staying Healthy Daily – a time saving	
	Founder, SwasthAayu	health strategy	
Session 2 Dr. Shewta Attarwala		Dance Therapy for Stress Management	
	Founder, SwasthAayu		
Session 3	Ms. Keisha Lobo	Change Management (Who moved my	
RJ and Dance Movement Therapist		Cheese)	
Session 4	Dr. V K Arora, CEO	Time, Network & Stress Management for	
	IGDTUW Anveshan Foundation	Entrepreneurs	



**WORKSHOP ON 'INTELLECTUAL PROPERTY RIGHTS'** 



An Online Workshop on Intellectual Property Rights for the incubatees, scholars and faculty members of IGDTUW was organized on 6th Nov, 2020. Workshop was conducted by Mr. Khushal Juneja, General Manager, Ennoble IP and Dr. V K Arora, CEO, Anveshan Foundation. The event witnessed extensive participation from individuals from diverse educational background, including research scholars, incubates and faculty members.

A multi-dimensional perspective on Intellectual Property Rights was imparted through the conscientious choice of topics of imperative necessity for the sessions. Few of the subjects deliberated upon included various aspects and need to protect IPR, Patents, Design Registrations, Trademarks, Copyright, GIs, Trade Secrets etc.

The program assisted the student and faculty audience to grow cognizant towards the need to protect IPR, Intellectual Property offices in India and the importance of patent, types of patentable innovations.



# **Women Incubatees**

Total number of Incubatee Companies: 15 Number of Pre-Incubatee Companies: 20





<u>DST Recognition:</u> IGDTUW-Anveshan Foundation Incubator Center has been recognized by the Department of Science & Technology (DST), Government of India as

"Technology Business Incubator (TBI)"

## **Women Incubatees**



VISIT: www.etilabs.com



igniting minds to innovate

VISIT: www.steamedu.in



Scripting Stories

VISIT:www.familyscript.com



VISIT:naturefabstore.com



VISIT: www.ciep.in



VISIT: www.skywalkers.in



VISIT:www.raahee.app/



VISIT: www.easestudies.com

# PROVOTEX RESOURCES PVT LTD

VISIT:www.provotex.com

# **ElectroKRITI**

Promoted by Ms. Anukriti

# Inspire2Invent

Promoted by Ms. Priya Maurya

# **UAcelt**

Promoted by Ms. Ria Bhatia & Team

# **Deadlock Solutions**

Promoted by Ms. Avishi Goyal

# **Pre-Incubation**

# Cisco thingQbator



In Prestigious Collaboration with NASSCOM & CISCO, thingQbator Lab is established to help young women entrepreneurs to build up prototype models for their ideas.



# **Community Outreach by Incubatee**

# STEAMEDU

(Incubated under IGDTUW - Anveshan Foundation)





STEAMEDU LEARNING (Incubated under IGDTUW Anveshan Foundation) took an initiative to support SINDHU SHIKSHA ABHIYAN, a community outreach project to mentor young minds at Leh Ladakh for innovation and entrepreneurship.

A community outreach program with the assistance of their student interns was done to make the S.T.E.A.M. Education (Science, Technology, Engineering, Arts and Mathematics) accessible to all deserving candidates from diverse backgrounds, by reaching out to the secluded geographical pockets as well as education centres where a stigma for such fashion and methodologies of modern education still lingers.

Young girls from different schools at Leh Ladakh were meticulously mentored by Team STEAMEDU for developing mobile apps to address local, imperative quandaries during the 5-day community outreach program – GENIUS(Girls Empowering New India Using STEAM) at World's Highest Altitude Region Leh-Ladakh by STEAMEDU (incubated under IGDTUW – Anveshan Foundation).

Team of three students of IGDTUW (Ms Shivani, Ms Vani and Ms Shubhangi) led by Cofounder of STEAMEDU LEARNING Mr. Dharamraj Panwar had visited Ladakh and mentored young girls selected from BVN School, Leh and Mahabodhi School, Leh at SINDHU TECH CENTER at Choglamsar, Leh for developing android apps to address their local community problems using design thinking and MIT App inventor.



# SUSTAINABLE DEVELOPMENT GSALS

The **Sustainable Development Goals set by United Nations (UN)** are a universal call to act on 'Poverty, Peace and Prosperity'. With a total of 17 goals, it was implemented in the year 2015 and was made a must to be adopted by all UN Member States, targeting 2030 as the year of culmination for all solutions. With only one decade remaining, we need to improve and move fast For People-For Planet, possible only through Global Action, Local Action and People Action.

As a local action, 'Government of NCT of Delhi' has funded and facilitated eleven incubation centres in the region of Delhi. All of these incubation centres are working on various parameters of SDGs to facilitate the cummulative fulfillment of 'Global Goals'.

IGDTUW Anveshan Foundation is also working hard on Sustainable Development Goals. Our initiatives and endeavors are primarily governed by the principles of 'No Poverty', 'Quality Entrepreneurial Education', 'Women Entrepreneurship', 'Economic Growth', 'Innovations' and 'Strategic Partnerships for Goals' and their inherent resolutions.

# **No Poverty**

We attempt to assist our Incubatee Companies in all possible ways (along with seed fund, which is a collateral fee) to advance in their zealous endeavours and progress to success. All these efforts have had an overall contribution towars the generation of employment and thereby advancing one step in mitigating poverty in the state of Delhi.

# **Gender Equality**

**Gender Equality**: - Abiding to our prime objective, we predominantly support women entrepreneurs and enterprises. Our ultimate motto is to contribute towards the inculcation of gender equality in the corporate sector, with our relentless ardour.



Snapshoot Session being conducted by Ms. Anila Alam, Founder, Mitti Café on Topic - Achieving Sustainable Development Goals through Social Entrepreneurship

# **Quality Education**

Apart from the regular schemes of curriculum for various educational programs conducted by the University, we have additionally conducted several workshops, bootcamps, mentorship sessions, internships and courses focusing on entrepreneurship, social entrepreneurship and intrapreneurship. Online interaction of Ms. Anila Alam, Founder, Mitti Café on 'Achieving Sustainable Goals through Social Entrepreneurship' on 09th August 2020 and Mr. Arun Nagpal, Managing Director and Co-founder, Mrida Group on 'Reflections of a Social Entrepreneur' have added value to the cognizance of our incubatees and students towards Social Entrepreneurship.

# Industry, Innovation and Infrastructure

The common business model shared by most of our incubatee companies is 'continuous innovation driven' which has potential impact on both Industry and Academia. Innovations achieved and practiced by ETI Labs, SteamEdu and Nature Fab have been truly remarkable.

# **Partnership for Goals**

We had entered in a fruitful partnership with GiZ Germany for Women Entrepreneurship and Women Empowerment in the year 2019. Under this partnership we are committed to assist and serve aspirant entrepreneurs from all over the country. Anveshan has also signed various MoUs with other colleges of the NCR Region to propagate entrepreneurship and start-ups culture among their students and scholars.

#### **CONTACT US**

IGDTUW – ANVESHAN FOUNDATION INCUBATION CENTER
Indira Gandhi Delhi Technical University For Women
KASHMERE GATE, DELHI

Email- anveshan@igdtuw.ac.in

#### How to reach IGDTUW:

#### **Arrival by AIR:**

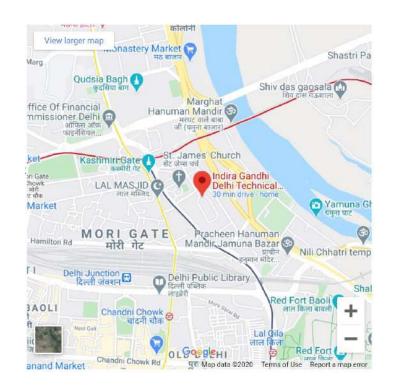
If you are coming to Delhi by air, we strongly recommended flying into Delhi Airport. The Delhi airport is located about 24 km from IGDTUW. You may hire a taxi at the airport. It takes approximately one hour to drive from the Delhi airport to the IGDTUW Anveshan Foundation.

#### **Arrival by TRAIN:**

New Delhi Railway station is well-connected to most cities in North, East and South India. IGDTUW is located at a distance of about 05 kilometers from the New Delhi Railway Station and less than one kilometer from Old Delhi Railway Station.

#### **Arrival by METRO:**

The nearest metro station is Kashmere Gate and the Gate No.7 exit has a walking distance of about 5-7 mins to the college.





IGDTUW Campus, Kashmere Gate, Delhi-110006
Business Incubator Promoted by
INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

### **INTRODUCTION**

Indira Gandhi Delhi Technical University for Women has promoted and incorporated a separate Section 8 Company 'IGDTUW Anveshan Foundation' under the company's act 2013 on 13th October 2016 to propagate entrepreneurial culture and ecosystem among women. All kind of facilitation in four phases of complete incubation and venture development cycle i.e. i) Pre-incubation, ii) Incubation, iii) Acceleration and iv) Post-incubation are provided by IGDTUW-Anveshan Foundation.

## **STRATEGIC INTENT**

#### **VISION**

To serve as a national platform for innovation and business incubation in order to support and assist women in entrepreneurship and to promote the concept of technology entrepreneurship, and convert business ideas into successful business opportunities.

#### **MISSION**

- To encourage technological innovation and accelerate the development of commercially viable businesses in technology and allied sectors by providing a nurturing and supportive environment in fostering entrepreneurial ecosystem.
- To accord significant contribution in the economic health through attracting new women enterprises in technological and allied sectors/industries and helping existing businesses to be more successful.
- To promote excellence in learning and training, technology development & transfer and external engagement that promotes innovation and entrepreneurship through collaboration and partnership.

### **CORE TEAM**

Dr. Amita Dev, honourable Vice Chancellor IGDTUW is the 'Chairperson' of IGDTUW Anveshan Foundation. Prof. Arun Sharma, HoD (AI & DS) is Managing Director of Anveshan Foundation. Apart from them three more senior faculty members (of Professor Level) from different engineering branches are the directors so that first mentoring to the start-up's aspirants can come from all the technical streams.

Dr. V K Arora has been working as the Chief Executive Officer of the company since its inception. Dr. Arora is a technocrat with PhD in Entrepreneurship and twenty years of experience. He is a learner and practicing in the realm of 'Entrepreneurship, Start-ups and Venture Development'. He has conducted over one thousand workshops pan India and has decent understanding of Entrepreneurial and start-up ecosystem of India. He is associated with a few startups across India as Mentor. His core interest is to formulate and implement Strategies for Start-ups scaling at different levels, including functional areas.

### **FACILITIES**

In Pre-incubation, activities related to Motivation, Ideation, Innovation, MVP, PoC, PoV, Feasibility, Prior Art, Intellectual Property Right, Pitching Deck, Business Plan and Presentation skills are provided to the participants by the Incubation Center i.e. IGDTUW Anveshan Foundation. There are total thirty student members in the E-Cell. In the last two years many activities and events have been organized by the E-Cell which include workshops, boot-camps, hackathons, industrial visits, inter college-university competitions, management development programs. CISCO has established complete IoT and robotics Lab 'thingQbator' worth INR 60 lakhs for Innovation through its CSR funds in the year 2018. More than fifty projects in three cohorts have been completed under this initiative.

IGDTUW Anveshan Foundation has signed a Contract with GiZ, a German organization worth INR 27.5 lakhs for Strengthening Incubation & Start-up Ecosystem specially Women Entrepreneurs under which Anveshan is performing various activities like a) Boot camps, b) Networking among other incubators (CEO Meets), c) Training & Workshops for capacity building and Demo/ Pitch Days.

Total twelve companies are working as startup Incubatees with IGDTUW Anveshan Foundation. All of these incubatees are women enterprises. Details of all these incubatees along with their products is available in the website of IGDTUW Anveshan Foundation www.anveshanfoundation.org. Incubation Center provides facilities like Company Incorporation, fully furnished air-conditioned office space, complete ICT and free consultancies in technical, business and strategic front to all of its' incubatees. Anveshan has also provided seed fund to these startups.

IGDTUW Anveshan Foundation has a pool of consultants and mentors associated with it to augment the businesses of its incubatees which is an essential part of Acceleration Phase. Support in marketing, regular product development, supply chain, franchise models and bargaining with Investors are provided by IGDTUW Anveshan Foundation. Incubation Center has also signed many MoUs with reputed organizations to accelerate and diversify businesses of its Incubatees through various channels including exchange programs overseas. After the incubation period, at the phase of post-incubation hand holding support continues from Anveshan Foundation in consultancy, laboratories & innovation support and portfolio management.

# MAJOR EVENTS CONDUCTED BY ANVESHAN FOUNDATION (In Last Three Years)

### 1. Session on 'Global Opportunities for Women Entrepreneurs'

Sadhana Shukla, Program Manager, Aspiring Women Entrepreneurs, Nexus Incubation Hub has conducted a session on 'Global opportunities for Women Entrepreneurs' at IGDTUW-Anveshan Foundation.



Later one of the directors in our incubatee company 'Prarabhha Info Solutions Pvt. Ltd.', Ms. Dipti Chourasia has successfully participated and completed the Aspiring Women Entrepreneurship (AWE) Programme held at University of Texas at Austin for two weeks.

#### 2. DELHI BUSINESS INCUBATORS' CEOS MEET



Delhi Business Incubators' CEOs Meet-up was conducted at Indira Gandhi Delhi Technical University for Women (IGDTUW) on 21st June 2018. In this Meetup CEOs/Managers and Incharge of Nine Business Incubators (funded by Government of Delhi NCT) participated. These incubators belong to Netaji Subhas Institute of Technology (NSIT), Delhi Institute of Tool Engineering (DITE), Delhi Pharmaceuticals Sciences and Research University (DPSRU), Acharya Narendra Dev College (ANDC), Ambedkar University Delhi (AUD), Indraprastha Institute of Information Technology (IIIT), Ambedkar Institute of Advanced Communication Technologies (AIACR), Shaheed Sukhdev College of Business Studies (SSCBS) and Indira Gandhi Delhi Technical University for Women (IGDTUW).

#### 3. BUSINESS PLAN & BUSINESS CASE COMPETITION

An Intercollege Business Plan and Case Competition was organized on 5th October by the Anveshan Foundation in IGDTUW, Kashmere Gate. The response was huge. Every participant enthusiastically presented their Business Case Study.



#### **LIST OF WINNERS**

Position	Project	Members and College (Winner of Cash Prizes)
I	Project Dharini	Members: Gurmeisha Chadha, Sumedha, Muskaan Jain, Shubhi Khanna College: IGDTUW
II	Why Walk When Pedal	Members: Deepak Kumar, Rajneesh Bhardwaj, Tushar Gandhi College: Delhi Institute of Tool Engineering, IP
III	Ayuda	Members: Sanya Sethi, Palak Tyagi, Ishita Mittal College: Maitreyi College

#### 4. Entrepreneurship Awareness Camp

Indira Gandhi Delhi Technical University for Women (IGDTUW) has conducted a three-day workshop on 'Entrepreneurship Awareness Camp' (EAC) sponsored by DST-NIMAT from January 21-23, 2019. Total 76 students of IGDTUW participated in the workshop. On the first day of this program first session was conducted by Dr. V K Arora, Chief Executive Officer, IGDTUW Anveshan Foundation. Along with the concept of Entrepreneur, Entrepreneurship and different types of Organizational Structure he described how human thinking can be converted to entrepreneurial thinking. Second session was conducted by Honourable Vice Chancellor of Indira Gandhi Delhi Technical University for Women (IGDTUW) Dr. Amita Dev.



On the Second day, first session was conducted by Mr. Mayank Sood, Partner, K&S Gurugram. He enunciated technical and commercial aspects required to run a business. He explained the role of Intellectual Property Rights in technical start-ups. Second session on the second day was held by Dr. Dhanjay Yadav. A real learning session regarding business plan generation, viability and feasibility checks, and business plan preparation were critically explained.



On the third day i.e. 23rd January, an Industry visit was organized at National Small Industries Corporation (NSIC), Okhla and APJ Abdul Kalam Memorial, INA Delhi. Students

## 5. BUSINESS INTELLIGENCE FESTIVAL (BI – Fest 19)

Business Intelligence Festival was held on 25th April, 2019 in which students from IGDTUW presented their Business Intelligence Projects in form of posters. Event was organized by IGDTUW-Anyeshan Foundation.

Event was sponsored by Intuit India. Two senior executives Mr. Prashanth Seshadri and Mr. Mohan Kumar from Intuit India, Bangalore attended the event. T-shirts (to all sixty participating students) and Prizes to top four winning teams were also facilitated by Intuit.



The day began with the keynote address which was delivered by Mr. Prashanth, Head, Intuit AI who talked about the power of Intuit AI. He explained the key products offered by Intuit and how Artificial Intelligence in general and machine learning in particular is applied at Intuit. His talk was well received by students. This talk was followed by Q&A session in which students had few questions related to the recruitment process at Intuit India which were addressed by Mr. Mohan Kumar who leads talent acquisition program and university recruitment at Intuit India.

Poster presentations from students took place in post lunch session. 60 students presented and displayed total 12 projects

#### **6.** Management Development Program (MDP)

IGDTUW Anveshan Foundation has conducted a one-day Management Development Program (MDP) on "How to Pitch and Bargain with Investors" on 21 Sept 2019. Participants from JSS STEP Noida, Bhai Parmanand Institute of Business Studies Delhi, School of Open Learning DU Delhi and Indira Gandhi Delhi Technical University for Women Delhi attended this MDP.

The most crucial step of a startup – INVESTMENT – was discussed during the workshop. Participants were informed about the various measures on how to talk with angel investors with varying level of wealth. They also learned how to prepare their first official document for pitching – Pitch Deck. The importance of effective communication with the investors was discussed. In the first Session, Business Idea Formulation was explained along with Entrepreneurial Ecosystem for Startups in India. In the second session complete Pitch Deck Preparation, KPIs and KRAs, Pre-money Valuation were the topics described with pragmatic examples.

AIF, Angel Investors, VCs and VCPEs were elucidated in details in the third session whereas in the last session, Format and Component of Term Sheet and SSSHA, FAQs with Investors and Bargaining Power of/ with Promoters Vs. Investors were discussed. Workshop was conducted by Dr. V K Arora, Chief Executive Officer of IGDTUW Anveshan Foundation.

#### 7. HACK – 2019, A TWO-DAY HACKATHON

INNERVE HACKS'19 a two-day Hackathon organized by IGDTUW Anveshan Foundation on October 11 and 12, 2019 on the campus of Indira Gandhi Delhi Technical University for Women, Kashmere Gate, Delhi.

It was an inter-college – university event, in which more than fifty from colleges and universities of Delhi NCR were received. A total of fourteen teams were invited to participate in the hackathon on the basis of their idea.

E-Cell Students Members of IGDTUW Anveshan Foundation managed complete activity. On the first day, the hackathon took off from Idea Submission. The managing team did its best to make it a huge success, which indeed went far better than expected as the ideas were so innovative and useful that most of the solutions aimed at solving real-life problems at an observative aspect. The Organizing Committee did so well to make a memorable impact on the participant's lives by providing them with all the necessary amenities along with the proper support from the mentors who also have judged most of the hackathons earlier. Mentors for the hackathon are mentioned below.

- Dr. Dinesh Ganotra, Asst. Professor, IGDTUW
- Manasi Mishra, Director, ETI Labs Pvt. Ltd.
- Prashant Choudhary, Maker Expert, Nasscom Foundation.
- Arun Kumar, Maker Space Manager, Defy and Cisco Thingbator.
- Dr. V K Arora, CEO, IGDTUW Anveshan Foundation

The Ideas straight targeted towards solving the issues in a way which people could not think of solving them and all the teams those were shortlisted were so enthusiastic till the end and it was so difficult for us to decide the top amongst them.

#### The ideas which took exciting Prizes home were:

#### I Position (Prize Amount Rs. 10,000/-): Yoga.

AI is a personal tutor which teaches Yoga to it's students anytime, anywhere and on any device. It is an on-demand service which uses machine learning to get the body posture of the user using their phone's camera. An Android as well as an iOS application, which has a great trainer, who is able to teach anytime, anywhere. Therefore, one can even use it in their hectic schedules. Technologies used are Flutter and TensorFlow.

#### II Position (Prize Amount Rs. 5,000/-): MAYA:-

The virtual assistant helps to curb the feeling of anxiety or depression. All the functionalities are done via voice commands a) Uses various datasets to interact effectively & produce satisfactory outputs accordingly and b)Maya performs various activities like Music, Health advices, Stress busters & lots more...

# III Position (Prize Amount Rs. 3,000/-): Goud (गीद):-

Virtual Adoption System is a web application where various orphanages are along with the detailed description of each child residing there. Our users can adopt these children 'virtually' and pay for their basic requirements as well as their other secondary expenses like higher education, medical emergencies, etc. The users will have to buy a monthly subscription-like plan for adopting a child through our platform. The user can monitor the studies, achievements, daily activities, etc. of their adoptions through the website which will be updated regularly, thus giving our system a flavour like that of real parenting.

#### 8. INNOPRENEUR – 2019



IGDTUW Anveshan Foundation and IGDTUW have conducted a competition 'Innopreneur – 2019'. In this regional level event, contests showcased their business plans. The program was

conducted in association with Lemon Ideas, Lemon School of Entrepreneurship and GiZ on 03<sup>rd</sup> January 2020 at Indira Gandhi Delhi Technical University for Women, Delhi.

Total 23 teams participated in the contest. Five teams, as given below, are selected for the National Round of Competition in the contests.

SponsorChampz (Gurugram)	Mata Naga Sneha Sai
ETI Labs Pvt. Ltd. (Delhi)	Manasi Mishra
Steamedu Learning Private Limited (Delhi)	Rashmi Tyagi
Courier Wala (Noida)	Deepak
Vishvaksenah Agro and Dairy Pvt. Ltd (Muzaffarpur)	Krishna Gopal Singh



Out of the above five teams, two teams, a) ETI Labs Private Limited and b) SteamEdu Learning Private Limited are the Incubatees of IGDTUW Anveshan Foundation.

#### 9. MENTORSHIP SESSIONS FOR STARTUPS: SERIES

IGDTUW Anveshan Foundation, New Delhi has organized various mentoring sessions to mentor startups, incubatees, entrepreneurship aspirants to foster entrepreneurial and startup ecosystem and to disseminate the services of Anveshan Foundation amongst the academic institutions and prospective target groups.

With COVID - 2019, some of the sessions in the series are conducted online. Details of various sessions conducted are given below:

S.No	Mentorship Session	Date of Conduct	Number of Participants	Speaker(s) for the Mentorship Session
1.	Mentorship Sessions for Startups: Series 1	25-02-2020	25	Session conducted by: 1. Dr. Poonam Sinha, NIESBUD 2. Mr. Prasun Kumar, Marketing Head, Magicbricks
2.	Mentorship Sessions for Startups: Series 2	03-05-2020	100	Sessions conducted by:  1. Shri. Arvind Jha, Pariksha Labs Private Limited  2. Ms Arushi Tangri, Advocate, Delhi High Court
3.	Mentorship Sessions for Startups: Series 3	17-05-2020	50	Sessions conducted by:  1. Mr. Harsh Kalra Advisor, Finance Optima (Fintech) and Tail spinner  2. Ms. Apurva Chawla, Investment Team Member, India Quotient
4.	Mentorship Sessions for Startups: Series 4	24-05-2020	89	Sessions conducted by:  1. Ms. Aarti Kalra Regulatory, Lead, Startup India  2. Mr. Ajit Jain, Agile Coach, WIPRO Digital
5.	Mentorship Sessions for Startups: Series 5	12-07-2020	57	Sessions conducted by:  1. Ms. Tripti Singhal Somani, CEO & MD,     KGS Advisors LLP  2. Mr. Anuj Goel, Director, VQMS Private     Limited
6.	Mentorship Sessions for Startups: Series 6	09-08-2020	75	Sessions conducted by:  1. Ms. Anila Alam, Founder, Mitti Café  2. Mr. Rahul Lakhmani, CEO and MD, Skiify
7.	Mentorship Sessions for Startups: Series 7	06-09-2020	45	Sessions conducted by:  1. Mr. Arun Sharma, Executive Director, KPMG, Gurgaon  2. Ms. Geetika Dayal, Executive Director, TiE, Delhi NCR
8.	Mentorship Sessions for Startups: Series 8	13-09-2020	50	Sessions conducted by:  1. Mr. Erik Azulay, Executive Director, Nexus Incubation Hub  2. Mr. Mayank Sood, Partner and Patent Attorney at K & S Partners
9.	Mentorship Sessions for Startups: Series 9	31-10-2020	51	<ol> <li>Sessions conducted by:</li> <li>Ms. Sushma Morthonia, Director General, India SME Forum</li> <li>Mr. Harish Chandra, CTO, Sarovar Hotels and Resorts</li> </ol>
10.	Mentorship Sessions for Startups: Series 10	28-11-2020	67	Sessions conducted by:  1. Dr Sudeendra Koushik, Chief Innovator & Co-Founder, PRASU  2. Ms. Mamta Chauhan, Chief Coordinator-International Business, Institute of Entrepreneurship Development, Lucknow
11.	Mentorship Sessions for	06-12-2020	67	Sessions conducted by:  1. Mr. Arun Nagpal – Co-founder & Managing

	Startups: Series 11			Director, Mrida Group  2. Ms. Sowmya Moni, Director – Marketing, Incture Technologies
12.	Mentorship Sessions for Startups: Series 12	10-01-2021	40	Sessions conducted by:  1. CA Karan Gogia – Partner at GBC Group, A Boutique Corporate Consulting Firm  2. Mr. Gagan Ghai, Director – Crest Innovation Foundation
13.	Mentorship Sessions for Startups: Series 13	17-01-2021	40	Sessions conducted by:  1. Ms. Manasi Mishra, Director - ETI Labs Private Limited  2. Dr. Rashmi Tyagi, Director - SteamEdu Learning Private Limited  3. Ms. Jyoti Bakshi, Director - Skywalkers Techeducation Pvt. Ltd.
14.	Mentorship Sessions for Startups: Series 14	24-01-2021	50	<ol> <li>Sessions conducted by:</li> <li>Mr. Shrikant Sinha – Chief Executive Officer at Telangana Academy for Skill and Knowledge (TASK)</li> <li>Mr. Sandeep Ghai, Senior Director Human Capital, UnitedHealth Group</li> </ol>
15.	Mentorship Sessions for Startups: Series 15	06-02-2021	45	Sessions conducted by:  1. Dr. Shreekant Sharma – Associate Faculty Member, NiMSME, Hyderabad  2. Dr. Saurabh Chandra – Consultant, NIESBUD, Noida
16.	Mentorship Sessions for Startups: Series 16	07-02-2021	48	Sessions conducted by:  1. Mr. MV Somasekhar – Dy. General Manager, NSIC, Ambattur, Chennai  2. Dr. Sriparna B Baruah, Faculty & Head (CIEC), IIE, Guwahati
17.	Mentorship Sessions for Startups: Series 17	20-02-2021	40	<ol> <li>Sessions conducted by:</li> <li>Dr. Mukul Rajput, Consultant, Jaarvis         International &amp; VH venture</li> <li>Ms. Seema Sinha, Chairperson, ISTD Noida         Chapter</li> </ol>
18.	Mentorship Sessions for Startups: Series 18	21-02-2021	45	<ol> <li>Sessions conducted by:</li> <li>Ms. Chesta Agarwal, Director Ease Stuides         Private Limited     </li> <li>Ms. Dipti Chourasia, Director, Prarabdha         Info Solution Limited     </li> <li>Ms. Kanchan Kashyap, Director, Proves         Resources Pvt. Ltd.     </li> </ol>
19.	Mentorship Sessions for Startups: Series 19	06-03-2021	48	Session Conducted on SDG-5 by: 1. Ms. Bharti Birla, Project Manager & Chief Technical Advisor, ILO
20.	Mentorship Sessions for Startups: Series 20	13-03-2021	29	Sessions Conducted on SDG – 4 by:  1. Mr. Ambrish Rai, National Convener, Right to Education (RTE) Forum
21.	Mentorship Sessions for	11-04-2021	27	Sessions conducted by: Prof Avijit Banerjee, Director, GLF Business

	Startups: Series 21			School, Kolkata
22.	Mentorship Sessions for Startups: Series 22	18-04-2021	49	Sessions conducted by: Ms. Nimisha Jain, Associate Manager - Transaction Advisory, Ernst & Young Global Limited
23.	Mentorship Sessions for Startups: Series 23	24-07-2021	43	Sessions conducted by: Mr. Karan Puri Associate Vice President at Ennoble IP
24.	Mentorship Sessions for Startups: Series 24	07-08-2021	48	<ol> <li>Sessions conducted by:</li> <li>Mr. Saurabh Trivedi, Co-founder and Director, Boudhik Ventures Private Limited</li> <li>Dr. S P Mishra, Former Vice Chancellor, DSVV Haridwar &amp; Shridhar University, Pilani</li> </ol>
25.	Mentorship Sessions for Startups: Series 24	21-08-2021	46	<ol> <li>Sessions conducted by:</li> <li>Dr. C. S. Singhal, Former Professor Director, Gender Studies &amp; Development</li> <li>CA (Dr.) Prakash G. Valecha, CEO M/s Optics Exports International, Mumbai and Mauritius</li> </ol>



Participants are mentored on various topics such as forming business Plans, Enabling Entrepreneur Mind-set, Intellectual Property Rights, etc. Participants are also mentored on how to pitch their ideas to the investors and interact with them and the ways to attract funding. With COVID-2019 in place and affecting various businesses, a session on what challenges lie ahead of COVID-19 and how startups and young entrepreneurs can gain benefits and future opportunities was organized.



Each session is followed with a round of questions from the participants answered using theoretical knowledge and practical experience by the experts. Further, IGDTUW Anveshan Foundation has followed up with interested participants and explores mechanisms for future collaborations with them as an incubator.

#### 10. ONLINE SUMMER INTERNSHIP ON STARTUP MANAGEMENT

IGDTUW Anveshan Foundation has conducted a Six Weeks Online Internship Program on 'Startup Management' from 15th June 2020 till 24th July 2020.

The program was inaugurated on 15th June 2020. Dr. Amita Dev, Vice-Chancellor, Indira Gandhi Delhi Technology University for Women (IGDTUW) was the Chief Guest of the Inaugural Event and Shri. Harish Chandra, CTO, Sarovar Hotels and Resorts, was the Guest of Honour for the Event. All the Directors of Anveshan Foundation Dr. Arun Sharma, Dr. Ranu Gadi, Dr. Jasdeep Kaur Dhanoa, Dr. Seeja K R, and Dr. Manoj Soni were present online.

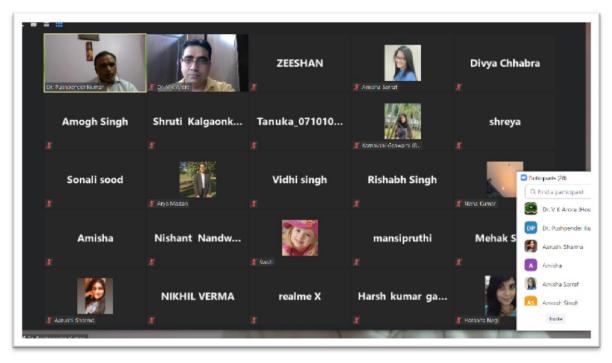


Total 30 participants from different parts of India attend the Program. Dr. V K Arora, CEO, IGDTUW Anveshan Foundation was the Chief Resource Person. Apart from him, ten other experts shared their views and knowledge during the program as mentioned below.

### Details of various experts called for the sessions are:

S.No	Name of Expert	Affiliation
1.	Dr V K Arora	CEO, IGDTUW Anveshan Foundation
2.	Dr. Pushender Singh	Faculty. Kirori Mal College
3.	CA (Dr.) Prakash G. Valecha	Member of the Institute of Chartered
		Accountants of India
4.	Ms. Jaya Misra	Financial Consultant
5.	Ms. Aparna Mishra	Consultant / Entrepreneur
6.	Dr. J C Pande	Faculty, MBA
7.	Sh. Paramjit Singh	Director, Regional Center for

		Entrepreneurship Development, Chandigarh
8.	Ms. Aditi Agarwal	Founder and MD, Adisap Systems Pvt.
		Limited
9.	Ms. Shalini Srivastava	Certified Skill Trainer
10.	Dr. Monica Verma	Professor, Dept. of Management, IIT Delhi &
		IMT Ghaziabad
11.	Sh. Amol Dhasade	Manager, Kirloskar Pneumatics Co. Ltd.



The internship was very fruitful. Feedback from participants was also very motivating of us as the organizer. E Certificates were distributed to all the participants on 31st July 2020.

### 11. THREE MONTH COURSE ON INNOVATION AND ENTREPRENEURSHIP

In association with GiZ i.e. Deutsche Gesellschaft für Internationale Zusammenarbeit, GmbH, IGDTUW Anveshan Foundation launches a unique kind of online Course on 'Innovation & Entrepreneurship' to educate and facilitate budding entrepreneurs. The course's objective is to foster innovation and agility by budding entrepreneurs specially women led initiatives and make participants understand the Indian Entrepreneurial Ecosystem and explain them the keys for business success.

Program was inaugurated on 21<sup>st</sup> September 2020, in presence of Honourable Vice-Chancellor and Chairperson IGDTUW Anveshan Foundation Prof. Amita Dev and Guest of Honour Mr. Vinod Kumar, President, India SME Forum. Program is expected to over by 31<sup>st</sup> December 2020. In total 70 participants register for the program.

Various Speakers are invited for the same. Details of some speakers are given below:

S.No	Name of Expert	Affiliation
1.	Dr V K Arora	CEO, IGDTUW Anveshan Foundation
2.	Mr. Rahul Sachdeva	Dy. Manager, IGDTUW Anveshan

		Foundation
3.	Mr. Alok Nikhil	COO, IIIT Delhi Innovation and Incubation
		Center
4.	Dr. Vaibhav Tripathi	Associate Professor, Gopal Narayan Singh
		University
5.	Dr. Rajan Yadav	Professor, Dept. of Management, DTU
6.	Mr. Satender Kumar	CO, TBI KIET
7.	Mr. Rahul Pandey	COO, Ambedkar University Incubation
		Center
8.	Ms. Garima Singhal	IP Execitive, Indian Agricultural Research
		Institute, PUSA Campus
9.	Ms. Seema Dholi	Founder, Farm2Kitchen Organic Food
10.	Dr. J C Pande	Faculty MBA
11.	Mr. Sudhakar Paul	Professional Associate
12.	Mr. Rahul Bajaj	Chief Digital & Transformation Officer,
		DiGiSPICE Technologies Ltd

#### 12. GANDHI YOUNG INNOVATIVE IDEA AWARD – 2020

On the 151st Birth Anniversary Celebration of Mahatma Gandhi on 02/10/2020, IGDTUW – Anveshan Foundation organized, Gandhi Young Innovative Idea (GYII) Award – 2020.

Students of UG/PG/PhD Courses of IGDTUW submitted a viable/ feasible idea/ process for consideration. Selected students are further guided for pre-incubation and incubation under IGDTUW – Anveshan Foundation. Total 32 Teams/Individual Participants in the event and cash awards were given to the students.

#### Result of the GYII is as below:

Position	Name	Cash Award	Dept. / Sem	Project Title
1 <sup>st</sup>	Kshitija Shekhar	DID 7 000/	car ath a	RAAHEE -AN APP FOR
1"	Mansi Bansal Shubhangi Gupta	INR 5,000/-	CSE, 7 <sup>th</sup> Sem	MENTAL HEALTH SERVICES
2 <sup>nd</sup>	Muskan Jain	INR 3,000/-	ECE, 7 <sup>th</sup> Sem	BSAFE - WEARABLE WOMEN SAFETY DEVICE
3 <sup>rd</sup>	Pooja Gambhir Surbhi Khurana	INR 2,000/-	Dept. of IT, PHD Scholars	VOICE ASSISTIVE SMART STICK FOR THE VISUALLY IMPAIRED

## Apart from top 3 position, 4 other titles are awarded with Consolation Prize of Rupees One Thousand (Rs. 1000/-)

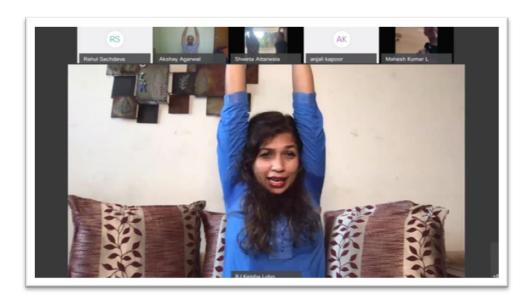
S.No	Name	Cash Award	Dept. / Sem	Project Title
1	Bhumika Banswal	INR 1,000/-	Dept. of IT, - 3 <sup>rd</sup> Sem	DAAN UTSAV
2	Jyoti Meena	INR 1,000/-	M.Plan , 1 <sup>st</sup> Sem	PREVENTING ENCROACHMENT USING URBAN INFORMATICS
3	Akanksha Saini Vandna Choudhary Rashmin	INR 1,000/-	Dept. of IT, - 3 <sup>rd</sup> Sem	ONSCREENPAPER

	Shivani			
4	Virali Purbey	INR 1,000/-	CSE, 7 <sup>th</sup> Sem	GET SET LEARN

A meeting was held on 06<sup>th</sup> October 2020 with all the program participants to further guide on materialising their idea.

### 13. WELLNESS BOOTCAMP: 'Good Health: A Key for Entrepreneur Success'

Anveshan Foundation conducted a two-day Online Boot Camp on Good Health in collaboration with SwasthAayu, on 27th – 28th Nov, 2020. The primary aim of the program was to increase the participants' awareness towards the indispensible importance of holistic health and how it can positively impact their businesses.



Participants from all over India registered for the program and actively engaged in the bootcamp. Details of the sessions and their respective speakers are given below.

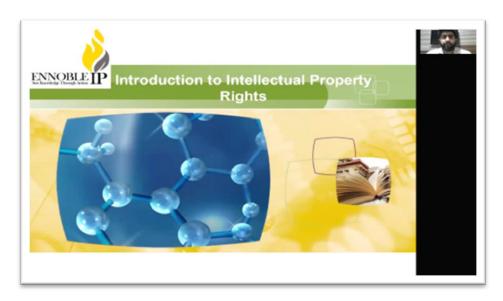
Title/ Activity	Speaker	Description	
Inaugural	Inauguration of the Program		
Session 1	Mr. Akshay Agarwal	Staying Healthy Daily - a time saving	
	Founder, SwasthAayu	health strategy	
Session 2	Dr. Shewta Attarwala	Dance Therapy for Stress Management	
	Founder, SwasthAayu		
Session 3	Ms. Keisha Lobo	Change Management (Who moved my	
	RJ and Dance Movement Therapist	Cheese)	
Session 4	Dr. V K Arora, CEO	Time, Network & Stress Management for	
	IGDTUW Anveshan Foundation	Entrepreneurs	

### 14. WORKSHOP ON 'INTELLECTUAL PROPERTY RIGHTS'

An Online Workshop on Intellectual Property Rights for the incubatees, scholars and faculty members of IGDTUW was organized on 6th Nov, 2020. Workshop was conducted by Mr. Khushal Juneja, General Manager, Ennoble IP and Dr. V K Arora, CEO, Anveshan

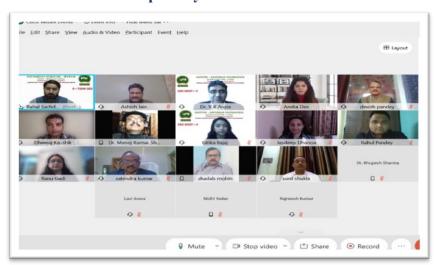
Foundation. The event witnessed extensive participation from individuals from diverse educational background, including research scholars, incubates and faculty members.

A multi-dimensional perspective on Intellectual Property Rights was imparted through the conscientious choice of topics of imperative necessity for the sessions. Few of the subjects deliberated upon included various aspects and need to protect IPR, Patents, Design Registrations, Trademarks, Copyright, GIs, Trade Secrets etc.



The program assisted the student and faculty audience to grow cognizant towards the need to protect IPR, Intellectual Property offices in India and the importance of patent, types of patentable innovations.



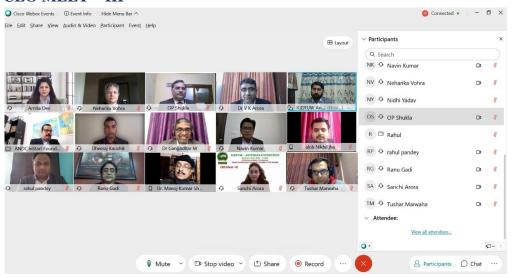


With the aim of working towards new age entrepreneurial pursuits of youth, IGDTUW Anveshan Foundation took the initiative, and extensive exercise organized national level "CEO Meet – II" with the theme of 'Start-up Ecosystem in India' 27th December 2020. The event was organized in association with the Indo-German project on innovation promotion (MSME) & GIZ, Germany, i.e., Deutsche Gesellschaft für Internationale Zusammenarbeit, GmbH. Prof. (Mrs.) Amita Dev, the honourable Vice-Chancellor, Indira Gandhi Delhi

Technology University for Women (IGDTUW), resided as the Chief Guest of the Inaugural Event and Dr. Sunil Shukla, Director General, EDI India, was the Guest of Honour for its inaugural event. The event embraced the participation of twenty (20) prominent CEOs of different incubation centers from all over India as panellists for four (4) different panel discussion rounds and witnessed enthusiastic participation from zealous innovators across the nation. The event's objective was to apprise budding entrepreneurs regarding 'Start-up Ecosystem in India' and make them familiar with major domains of 'Start-ups and Entrepreneurship' & to understand the best practices being conducted in different incubation centers. The program was open and free of cost for students, entrepreneurs, mentors and other stakeholders to join.



### 16. CEO MEET – III





#### 17. A FIVE-DAY BOOTCAMP ON "DIGITAL MARKETING"

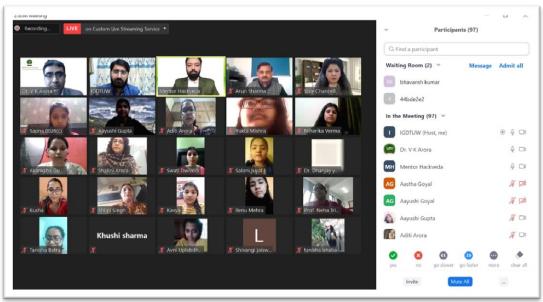
The use of the internet and other media and technology to support 'modern marketing' has given rise to a bewildering range of labels and jargon created by both academics and professionals. It has been called digital marketing, internet marketing, e-marketing and web marketing and these alternative terms have varied through time

IGDTUW Anveshan Foundation conducted a Five-Day Boot Camp on "Digital Marketing" for women budding entrepreneurs to enhance their knowledge and make them aware with latest trends and tricks for Digital Marketing.

Course Content designed for the Boot Camp was as below:

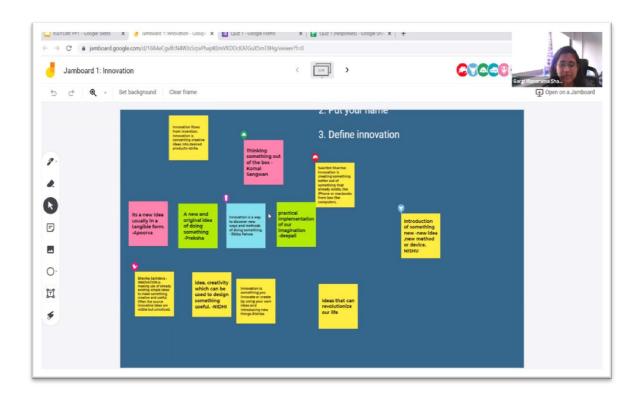
Day/Date	Topic	
Day 1 10/02/2021	Inaugural Event	
Day 1	Identify your Dream Customer	
10/02/2021	Find the Traffic with your Dream 100 & Competitors	
(Wednesday)	Make your Hook, story and Offer	
Day 2	Build Organic Traffic	
11/02/2021	<b>021</b> Build Paid Traffic	
(Thursday)	Fill Funnel with Organic Traffic	

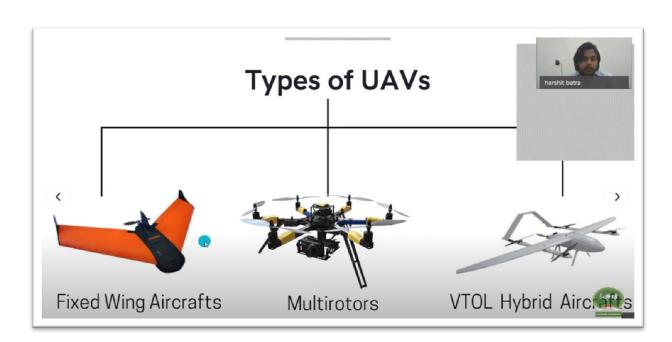
	Fill your Funnel with Paid Traffic		
Day 3	Instagram Traffic Secrets		
12/02/2021 (Friday)	Facebook Traffic Secrets		
Day 4	Google Traffic Secrets		
13/02/2021 (Saturday)	YouTube Traffic Secrets		
Day 5	Affiliate Marketing		
14/02/2021 (Sunday)	Affiliate Marketing		



### 18. WORKSHOP ON FLY HIGH: DIY DRONES USING 3D PRINTING







## 19. CEO Meet IV – Start-up India Seed Fund Scheme & Sustainability of Incubators

IGDTUW Anveshan Foundation had conducted 'Incubator Meet-I' on June 21, 2018. In CEO Meet - I total nine business incubators participated from Netaji Subhash Institute of Technology (NSIT), Delhi Institute of Tool Engineering (DITE), Delhi Pharmaceuticals Sciences and Research University (DPSRU), Acharya Narendra Dev College (ANDC), Ambedkar University Delhi (AUD), Indraprastha Institute of Information Technology (IIIT), Ambedkar Institute of Advanced Communication Technologies (AIACR), Shaheed Sukhdev

College of Business Studies (SSCBS) and Indira Gandhi Delhi Technical University for Women (IGDTUW). After that Incubator Meet – II was conducted 27th December 2020, on 'Startup Ecosystem in India' in which representative of 16 incubation centers participated. Incubator Meet - III on 'Delhi Startup Mission - Core Competencies, Opportunities & Challenge' on 30th January 2021 on webex platform in association with GiZ.

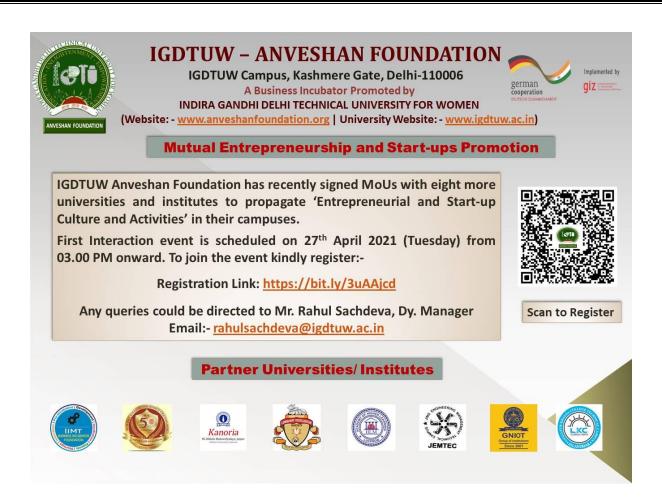
In continuation, Incubator Meet – III was conducted on 23rd April, 2021 on the topic Start-up India Seed Fund Scheme & Sustainability of Incubators.



#### 20. CEO Meet – V – Mutual Entrepreneurship and Start-Ups Promotion

In continuation CEO Meet conducted at regular time interval, CEO Meet – V was conducted on 27th April, 2021. Following Institutes participated in the event:

- 1. IIMT University, Meerut
- 2. Mehr Chand Mahajan Dav College for Women, Chandigarh
- 3. Kanoria PG Mahila Mahavidyalaya Jaipur
- 4. KLE Society's, Lingaraj College, Belagavi
- 5. IILM Academy of Higher Learning, Lucknow
- 6. GNIOT Institute of Management Studies (GIMS), Greater Noida
- 7. JIMS Engineering Management Technical Campus, Greater Noida
- 8. Lyallpur Khalsa College Technical Campus, Jalandhar

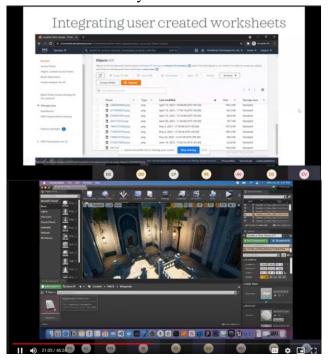


### 21. Conduct of TOYCATHON 2021 (Digital Edition)



Under the 'AatmaNirbhar Bharat Abhiyan' initiated by our Hon'ble Prime Minister, Shri. Narendra Modi, Toycathon-2021 is conceived to challenge India's innovative minds to conceptualize novel Toy and Games based on Bharatiya civilization, history, culture, mythology and ethos.

Toycathon 2021 is an inter-ministerial initiative organized by Ministry of Education's Innovation Cell with support from All India Council for Technical Education, Ministry of Women and Child Development, Ministry of Commerce and Industry, Ministry of MSME, Ministry of Textiles and Ministry of Information and Broadcasting.



IGDTUW in association with IGDTUW Anveshan Foundation served as Nodal Center for the Event and hosted the Digital Edition of the Toycathon Successfully. Inaugural Event was held on 22<sup>nd</sup> June, 2021 at the University Level. Dr. V K Arora, CEO Anveshan Foundation welcomed the Guest of Honour Dr. Sanjiv Layek Executive Secretary at World Association for Small and Medium Enterprises (WASME). Prof. Arun Sharma, SPOC for nodal center IGDTUW gives the vote of thanks.



### 22. Summer Internship Programs

During these unpredences COVID times, IGDTUW has taken numerous initiatives to inspire and motivate youth of the country by arranging expert talk and providing 4 online internship programmes.

### i. Family Business & Entrepreneurship

Anveshan launched the Family Business & Entrepreneurship to develop business acumen to the members of family in business and maintain ethics, family and business together (with harmony) under one roof. Program aimed at providing pragmatic skills on marketing, human resource, supply chain, production, finance, investment etc. and make participants understand the Indian Entrepreneurial Ecosystem and explaining them the keys for business success.



### ii. Start-Up Management

On 5<sup>th</sup> July, 2021 Anveshan Inaugurated Six Week online internship on Start-Up Management in presence of Honourable Vice-Chancellor IGDTUW, Dr. (Mrs. Amita Dev) and Ms. S Glory Swarupa, Director General, National Institute of Micro, Small & Medium Enterprises, Hyderabad.



Anveshan launched the internship on Start-Up Management to foster creativity, innovation and business incubation among youth. Internship aimed to provide knowledge regarding all the businesses aspects like marketing, human resource, supply chain, production, finance, investment etc. in any start-up. and make participants understand the Indian Entrepreneurial Ecosystem and explaining them the keys for business success.



### iii. Cyber Security: Operations and Technological Solutions



### iv. Machine Learning and Deep Learning



### 23. Celebration of 75<sup>th</sup> Independence Day – 15<sup>th</sup> August, 2021



IGDTUW - Anveshan Foundation has conducted four competitive events for the occasion of 75th Independence Day (15th Aug., 2021). Following Events were conducted:

- 1. Covid Warrior: Success Stories 2021
- 2. Video of Attire posing a Historic Personality
- 3. Video of Solo Dance on any Patriotic Song
- 4. Poem/Song Writing on Patriotic Theme

Details of these events were circulated among the students of IGDTUW and over 100 teams have participated in these events.



### 24. Three Month Course on Innovation and Entrepreneurship

IGDTUW Anveshan Foundation launches a unique kind of online Course on 'Innovation & Entrepreneurship' to educate and facilitate budding entrepreneurs. This Course examines all the necessary domains under 'Innovation and Entrepreneurship' including successful start-ups strategies, business models, frameworks, funding etc.



### 25. Three Month Course on Business Informatics: Start-up's Perspective

IGDTUW Anveshan Foundation launches a unique kind of online Course on 'Business Informatics: Start-Up's Perspective' to educate and facilitate budding entrepreneurs. Business Informatics is a specialist area of IT that combines information technology, management and business. This Course examines all the necessary domains under 'Business Informatics' including need & importance of Business Informatics, CRM, ERP, Digital Marketing, etc.



# 26. Two-day activities-based workshop on 'Entrepreneurial Mindset' for Principals/ Teachers Delhi Government of the schools



IGDTUW Anveshan Foundation has conducted a Two-Day Activity Based Workshop on "Entrepreneurial Mind-set" to create "Certified Master Trainer" on 2<sup>nd</sup> & 3<sup>rd</sup> September

2021 in the university campus for the Principals/Teachers of Delhi Government Schools. The main objective of these workshops is to propagate entrepreneurial culture among the students of Government Schools through these 'Certified Master Trainers' i.e. Principals/Teachers of the schools. More than 50 Principals/Teachers from different schools participated in the workshop.



### 27. Gandhi Young Innovative Idea – 2021 (GYII-2021)



Various events were conducted to celebrate Gandhi Jayanti and promote the thoughts and values of Gandhi Ji. Following events were conducted by IGDTUW:

- Innovative Idea On the grounds of new technology or society based problems and
- On spot Essay Writing Based upon the tenets of Mahatama Gandhi Ji pertaining to new education/ innovation/ practices.

Events were conducted on 30th September 2021 and award ceremony was organized on 02nd October 2021 on the day of Gandhi Jayanti.

### 28. Promoting IP for 'Entrepreneurial Growth & A Sustainable Future'



IGDTUW Anveshan Foundation in collaboration with Consortium of Women Entrepreneurs of India (CWEI) conducted webinar on 'Promoting IP for Entrepreneurial Growth & A Sustainable Future'. The participants of the workshop were able understand the procedures to convert the research outcome into patents and the process for further commercialization/technology transfer.

### 29. IPR Awareness Program on Patents & Design Registrations



IGDTUW Anveshan Foundation in association with RGNIIPM Nagpur, Ministry of Commerce & Industry, GoI conducted webinar on 'IPR Awareness Program on Patents & Design Registrations'. The webinar was conducted with the aim to create awareness about the need and importance of Intellectual Property Rights (IPR) among the faculty and students.

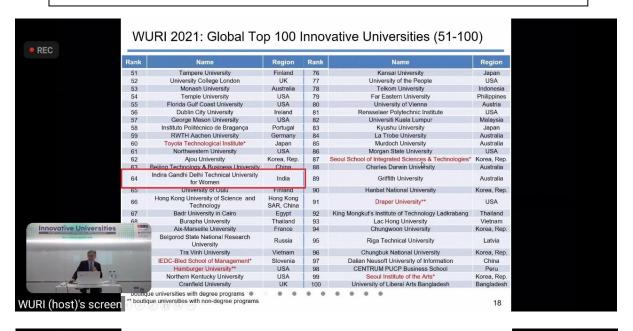
### **MAJOR ACHIEVEMENTS**

IGDTUW was accredited in the Band 'Performer' Overall Ranking in Atal Ranking of Institutions on Innovation Achievements (ARIIA)-2021 Award





IGDTUW has secured 64<sup>th</sup> position in the overall "World's Universities with Real Impact (WURI)" Ranking, "WURI: Innovative Universities for 2021". The University also placed 16<sup>th</sup> in the special category "Entrepreneurial Spirit" of WURI ranking, 2021.





# GANDHIAN YOUNG TECHNOLOGICAL INNOVATION AWARD



The Hon'ble Vice President of India, Shri M. Venkaiah Naidu awarded the Gandhian Young Technological Innovation (GYTI) Award to Manasi Mishra, Indira Gandhi Delhi Technical University for Women (IGDTUW) at the Awards function held at Vigyan Bhawan

### **FACEBOOK ANNUAL CONFERENCE**



Ms. Shubhangi Misra, CSE was the only Indian women HACKATHON participant awarded the invitation to 'FACEBOOK' Annual Conference and Won prizes:

- Global Prize Award of USD 10,000
- Regional Prize Award of USD 3,000

### **SMART INDIA HACKATHON 2020 WINNERS**



### Team 1:

- - 2. Ragini Sharma (7th Sem- IT)
  - 3. Surmayi Sharma (7th Sem- IT)
  - 4. Anushree Mishra (5th Sem- ECE)
  - 5. Aarushi Singh (7th Sem- CSE 1)
  - 6. Nimisha Gupta (7th Sem- CSE 1)

### Team 2:

- 1. Shivalika Goel (7th Sem- IT)-Team Leader 1. Akanksha Chandna (CSE 2 )- Team Leader
  - 2.Komal Kirti (7th Sem-CSE 2)
  - 3.Lubhani Agarwal(7th Sem-CSE 2)
  - 4. Pallavi Bishnoi(7th Sem-CSE 2)
    - 5. Kuja(7th Sem-CSE 2)
  - 6. Yaashi Madan(7th Sem-CSE 2)



### GLIMPSE OF MAJOR ACHIEVEMENTS OF INCUBATEES

- 1. Anveshan Foundation has incubated a total of 12 Incubatees till date. All these incubatees are private limited companies and received a seed Grant of total INR 32.5 lakhs. Another 15.0 Lakhs of rupees are sanctioned in next tranches.
- 2. Anveshan Foundation has collaborated through MoU/ Contract with NASSCOM Foundation, Nexus Incubation Hub, GiZ for getting support for Pre-incubation activities.
- 3. Organized two days Hackathon (as Inter college/University Business Plan Competition) in four consecutive years (year 2017, 2018, 2019 and 2020) where responses from more than 60 teams were received from different colleges of Delhi NCR. Apart from that, Anveshan Foundation has organized many events such as workshops, boot-camps, mentoring session and MDPs. (details are available in the website) FDPS by Cisco (Webinars)
- 4. Our Incubatees' success stories have been covered in Primetime of DD, ZEE, Harvest Channels and leading newspapers.
- 5. Our two incubates: ETI Labs Private Limited and Nature Fabtech Private Limited have crossed turnover of INR 25 Lakhs, individually.
- 6. Ms. Manasi, director of ETI Labs received Gandhiyan Young Technology Innovation (GYTI) award by Dr. Harsh Vardhan in July 2019.
- 7. Ms. Manasi Mishra has represented Anveshan Foundation TBI at DST Startup Zone in 28th convergence India and 06th Smart cities India EXPO during March 24-26 2021 at Pragati Maidan and showcased the products and services of ETI Labs.
- 8. Ms. Manasi Mishra has recently been awarded by DMA's, All India Women Entrepreneurs Award on 22nd April 2021.
- 9. Ms. Dipti Chourasia was selected in Aspiring Women Entrepreneurship and got two weeks training in Austin Texas.
- 10. SteamEdu Learning is continuously conducting training courses in all the domains of STEAM pan India including areas like Leh Ladakh. Promoters of the company had got appreciation from DRDO Leh Dihar (Defense Institute of High-Altitude Research) for Social Work among women/girls.
- 11. SteamEdu has recently launched an unique initiative 'STEAM Talks' video interviews featuring 'Talks on STEAM' from eminent personalities all over the world.
- 12. Sakshi and Peeyush, Directors of Nature Fabtech got export orders from USA and European countries in the year 2019 and 2020 bamboo fabric made infant clothing.
- 13. Ms. Kanchan Kashyap, Director and CEO of Provotex Resources has designed more than 20 patterns of its own jute bags for various purposes and have fetched orders from many Indian organizations.
- 14. Ms. Kshitija from Raahee has developed an application (RaaheeApp) on Mental Health and has been received many national awards.
- 15. Uaceit Ventures was recognized as one of the promising organizations in the student's category by Honorable Minister of Women & Child Development, Gol.

### PRESTIGIOUS COLLABORATIONS

IGDTUW Anveshan Foundation is now DST funded 'Technology Business Incubator'. A total of 5.04 Crore funding over five years' time span is to be disbursed to make Anveshan self-reliant. State of art laboratories like advanced 3D Lab, Advanced Robotics Cell, Rapid Prototyping Lab, Drone Lab and full ICT infrastructure are to be created.



In prestigious collaboration with GiZ Germany (i.e. Deutsche Gesellschaft für Internationale Zusammenarbeit, GmbH), Anveshan Foundation is organising various activities like a) Boot camps, b) Networking with other incubators (CEO Meets), c) Training & Workshops for capacity building and Demo/ Pitch Days.



Implemented by

GIZ Gratscha Gesellschaft
Gratschaft Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gratschaft
Gr





IPR Cell i.e. Intellectual Property Rights Division is formed to help students, scholars, incubatees and faculty members on Trademarks, Copyrights, Patents, Design registrations and trade secrets. A fruitful MoU with Ennoble IP has been signed on this regard.

### RECENT COLLABORATIONS

'Anveshan Foundation' on 21<sup>st</sup> October, 2021 signed three MoUs with eminent organization HDFC Bank, Edunet Foundation and Mundo Latino.

Dr. Amita Dev, Vice Chancellor of IGDTUW signed these MoU whereas on behalf of HDFC Bank Shri. Uttam Ahluwalia, Senior Vice President & Zonal Head, Government and Institutional Business signed the MoU.

HDFC Bank has setup a smart solution for Startups called as SMART-UP. SmartUp is leveraged to assist in achieving startup goals with smart financial tools, smart advisory services, and technology. Shri. Naveen Goyal, Ankit Agrawal, Lokesh Kumar and Abhinav Mayaram from HDFC Bank were present during the ceremony.

MoU with Edunet Foundation was signed by its Executive Director, Shri. Nagesh Singh. Edunet Foundation is a leading Indian NGO focused on education, skilling, employment and entrepreneurship. Edunet will be sharing its knowledge domain through CSR activities of Microsoft and SAP.

Ms. Shalu Chopra, Founding Director of Mundo Latino has signed third MoU to provide training platform to the students of IGDTUW. Mundo Latino is a Latin American Cultural Centre representing and promoting Spanish language and the Hispanic culture in India.

In near future, these association are going to be fruitful for the students and incubatees of IGDTUW and Anveshan Foundation.

Directors of Anveshan Foundation were present during the MoU signing ceremony.



### OTHER COLLABORATION

Anveshan Foundation also believes in disseminating its knowledge and best practices of 'Entrepreneurship, Startup and Incubation' across the country. Hence to support and promote the innovation and entrepreneurial ecosystem through collaboration, Anveshan has signed MoUs with many Incubations Centers/ Universities and Institutes.

The collaborative activities included in such MoUs are mentioned below,

- Collaboration and consultancies in the domain of 'Entrepreneurship, Startups, Innovation and Incubation' of mutual interest.
- Exchange of ideas on areas of mutual interest which are made available by both parties.
- Exchange of visiting business incubator staff and incubatees.
- Collaborative boot-camps, symposia, seminars, workshops, conferences, Hackathons, Business Plan Competitions, Demo/Pitch Day events related to entrepreneurship, startups and Incubation (training and pre-incubation activities).
- Co-incubation of innovative ideas & Start-ups.

Till date, we have signed MoUs with following Institutions.

- 1. Kirori Mal College, New Delhi
- 2. IIMT University, Meerut
- 3. Mehr Chand Mahajan Dav College for Women, Chandigarh
- 4. Kanoria PG Mahila Mahavidyalaya Jaipur
- 5. KLE Society's, Lingaraj College, Belagavi
- 6. IILM Academy of Higher Learning, Lucknow
- 7. GNIOT Institute of Management Studies (GIMS), Greater Noida
- 8. JIMS Engineering Management Technical Campus, Greater Noida
- 9. Lyallpur Khalsa College Technical Campus, Jalandhar

For any other information/ query feel free to contact us.

Dr. V K Arora

Chief Executive Officer, IGDTUW Anveshan Foundation

Kashmere Gate, DELHI – 110006

Email: <a href="mailto:ceoincubation@igdtuw.ac.in">ceoincubation@igdtuw.ac.in</a> Mobile Number: 98 11 59 30 59

Thank You

## **IGDTUW Anveshan Foundation**

### **MENTORSHIP SESSIONS FOR STARTUPS: SERIES**

Anveshan Foundation left no stone unturned and strived hard in achieving success by adopting and shifting to newer means of imparting education and conducting events online. A detail of Eleven such sessions is mentioned below.

Sr. No.	Mentorship Session	Date of Conduct	Speaker(s) for the Mentorship Session
1.	Mentorship Sessions for	25-02-2020	1. Dr. Poonam Sinha, Director, NIESBUD
	Startups: Series 1		2. Mr. Prasun Kumar, Marketing Head, Magicbricks
2.	Mentorship Sessions for	03-05-2020	1. Shri. Arvind Jha, Pariksha Labs Private Limited
	Startups: Series 2		2. Ms Arushi Tangri, Advocate, Delhi High Court
3.	Mentorship Sessions for Startups: <b>Series 3</b>	17-05-2020	1. Mr. Harish Kalra Advisor, Finance Optima (Fintech)
			and Tail spinner
			2. Ms. Apurva Chawla, Investment Team Member, India
			Quotient
4.	Mentorship Sessions for	24-05-2020	1. Ms. Aarti Kalra Regulatory, Lead, Startup India
	Startups: <b>Series 4</b>		2. Mr. Ajit Jain, Agile Coach, WIPRO Digital
5.	Mentorship Sessions for Startups: <b>Series 5</b>	12-07-2020	1. Ms. Tripti Singhal Somani, CEO & MD, KGS Advisors
			LLP
			2. Mr. Anuj Goel, Director, VQMS Private Limited
6.	Mentorship Sessions for	09-08-2020	1. Ms. Anila Alam, Founder, Mitti Café
	Startups: Series 6		2. Mr. Rahul Lakhmani, CEO and MD, Skiify
7.	Mentorship Sessions for	06-09-2020	1. Mr. Arun Sharma, Executive Director, KPMG, Gurgaon
	Startups: <b>Series 7</b>		2. Ms. Geetika Dayal, Executive Director, TiE, Delhi NCR
8.	Mentorship Sessions for Startups: <b>Series 8</b>	13-09-2020	1. Mr. Erik Azulay, Executive Director, Nexus Incubation
			Hub
			2. Mr. Mayank Sood, Partner and Patent Attorney at K &
			S Partners
9.	Mentorship Sessions for Startups: <b>Series 9</b>	31-10-2020	1. Ms. Sushma Morthonia, Director General, India SME
			Forum
			2. Mr. Harish Chandra, CTO, Sarovar Hotels and Resorts
10.			1. Dr. Sudeendra Koushik, Chief Innovator & Co-Founder,
			PRASU
	Mentorship Sessions for Startups: <b>Series 10</b>	28-11-2020	2. Ms. Mamta Chauhan, Chief Coordinator-International
			Business, Institute of Entrepreneurship Development,
			Lucknow
11.	Mentorship Sessions for Startups: <b>Series 11</b>	06-12-2020	1. Sh. Arun Nagpal, Co-founder & MD, Mrida Group
			2. Ms. Sowmya Moni, Director – Marketing, Incuture
			Technologies



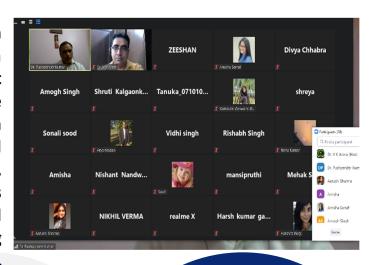
#### ONLINE SUMMER INTERNSHIP FOR SIX WEEKS



Under these unprecedented time, Anveshan Foundation took initiate by undertaking an extensive exercise of shifting to newer means of imparting education by launching Six Weeks Online Internship Program on 'Startup Management' from 15<sup>th</sup> June 2020 till 24<sup>th</sup> July 2020

The program commenced on 15<sup>th</sup> June 2020. Dr. Amita Dev, the honorable Vice-Chancellor, Indira Gandhi Delhi Technology University for Women (IGDTUW) resided as the Chief Guest of the Inaugural Event and Shri. Harish Chandra, CTO, Sarovar Hotels and Resorts, was the Guest of Honour for its inaugural event. All the Directors of Anveshan Foundation Dr. Arun Sharma, Dr. Ranu Gadi, Dr. Jasdeep Kaur Dhanoa, Dr. Seeja K R, and Dr. Manoj Soni too were present online.

Various topics, such as Marketing Research and Strategic Implementation, Human Resource Management for Startups, Project Reports, etc., were discussed. The initiative witnessed enthusiastic participation of from zealous innovators across the nation proved fruitful for the in such time. Dr. V K Arora, CEO, IGDTUW Anveshan Foundation served as the Chief Resource Person. Ten additional experts graced the occasion by enlightening the audience with their erudition and wisdom.





# Indira Gandhi Delhi Technical University for Women Kashmere Gate, Delhi

Ref. No.: Reg. Off./18/IGDTUW/2021-22 2078

Dated: 17.12.2021

### Circular

### Sub: First Research Excellence Award Ceremony

The First Research Excellence Award Ceremony is scheduled on 24<sup>th</sup> December, 2021 at 11.30 A.M in the University Auditorium. The Event is celebrated to felicitate meritorious researchers (faculty/students) of IGDTUW for their outstanding contribution in Research.

All faculty and staff members are directed to attend the First Research Excellence Award Ceremony and be seated in the venue latest by 11:00 A.M. After the Event, lunch arrangements have been made for all faculty and staff members.

(Prof. R.K. Singh) Registrar

Copy for kind information to:

- 1) Pro. Vice Chancellor, IGDTUW
- 2) All Dean(s)/Chief Proctor, IGDTUW
- 3) All HoDs /Branch Incharge(s) to ensure strict compliance
- 4) Chief Hostel Warden, IGDTUW
- 5) Librarian, IGDTUW
- 6) System Analyst with a request to upload the Circular on the University website
- 7) University Notice Board
- 8) Guard File

(Prof. R.K. Singh)

Registrar



### INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. RANU GADI

**Professor** 

## **Department of Applied Sciences and Humanities**

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Vice Chancellor

## Research Publication(s) awarded

- 1. Shivani, **Ranu Gadi**, Sudhir Kumar Sharma & Tuhin Kumar Mandal "Seasonal variation, source apportionment and source attributed health risk of fine carbonaceous aerosols over National Capital Region, India" Chemosphere, 237, 124500, 2019.
- 2. Shivani, **Ranu Gadi**, Mohit Saxena, Sudhir Kumar Sharma & Tuhin Kumar Mandal "Short-term degradation of air quality during major firework events in Delhi, India" Meteorology and Atmospheric Physics, 131, 753–764, 2019.



### INDIRA GANDHI DELHI TECHNICAL UNIVERSITY FOR WOMEN

Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. CHHAYA RAVIKANT

**Professor** 

## **Department of Applied Sciences and Humanities**

in recognition for the research during 2019 and 2020

**December 24, 2021** 



**Prof. Ranu Gadi** 

Phal

Dean (IRD)

Dr. (Mrs.) Amita Dev

Vice Chancellor

- 1. Lovkush, **Chhaya Ravikant** & P. Arun, "Tunability of Surface Plasmon Resonance Peaks in CsI: Ag Films by Growth Conditions" Plasmonics, 15, 735–741, 2020.
- 2. Ritu Goel, Ranjana Jha & Chhaya Ravikant, "Investigating the structural, electrochemical, and optical properties of p-type spherical nickel oxide (NiO) nanoparticles" Journal of Physics and Chemistry of Solids, 144, 109488, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## DR. BHAVANI PRASAD

**Assistant Professor** 

**Department of Applied Sciences and Humanities** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. Geetanjali Singh, <b>Bhavani Prasad</b> "Development of rGO encapsulated polymeric beads as drug delivery system for improved loading and controlled release of doxycycline drug" Drug Development and Industrial Pharmacy, 462-470, 2020.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. DEVENDRA K TAYAL

**Professor** 

**Department of Computer Science & Engineering** 

in recognition for the research during 2019 and 2020

**December 24, 2021** 



**Prof. Ranu Gadi** 

Phal

Dean (IRD)

Dr. (Mrs.) Amita Dev

- 1. Sonakshi Vij, **Devendra K. Tayal** & Amita Jain "A Machine Learning Approach for Automated Evaluation of Short Answers Using Text Similarity Based on WordNet Graphs", Wireless Personal Communications, 111, 1271–1282, 2020.
- 2. Anupma Kaushik, **Devendra K. Tayal** & Kalpana Yadav "A Comparative Analysis on Effort Estimation for Agile and Non-agile Software Projects Using DBN-ALO" Arabian Journal for Science and Engineering, 45, 2605–2618, 2020.
- 3. **Devendra K. Tayal**, Kanak Meena "A new MapReduce solution for associative classification to handle scalability and skewness in vertical data structure" Future Generation Computer Systems, 103, 44-57, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## DR. SEEJA K.R

**Professor** 

### **Department of Computer Science & Engineering**

in recognition for the research during 2019 and 2020

**December 24, 2021** 



**Prof. Ranu Gadi** 

Dean (IRD)

Phal

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. Pallavi Pandey, <b>Seeja K.R</b> , "Subject independent emotion recognition system for people with facial deformity: an EEG based approach" Journal of Ambient Intelligence and Humanized Computing, 12, 2311–2320, 2021.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

### DR. R. K. SINGH

**Professor** 

### **Department of Information Technology**

in recognition for the research during 2019 and 2020

**December 24, 2021** 



Research Publication(s) awarded	
1. Anushree Agarwal, <b>R.K. Singh</b> "Predicting co-change probability in software applications using historical metadata" IET Software, 14 (7), 739 – 747, 2020.	



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## DR. ARUN SHARMA

**Professor** 

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Phal

Dean (IRD)

Dr. (Mrs.) Amita Dev

- 1. Neha Gupta, **Arun Sharma** & Manoj Kumar Pachariya "Testing and debugging: an empirical evaluation of integrated approaches", Sadhana-Springer, 45, 148, 2020.
- 2. Pooja, **Arun Sharma**, "An empiricial assessment of autonomicity for autonomic query optimizers using fuzzy-AHP technique", Applied Soft Computing Journal, 90, 106137, 2020.
- 3. Pooja, **Arun Sharma** & Manoj Kumar Pachariya"A review on architecture and models for autonomic software systems", The Journal of Supercomputing, 77, 388–417, 2021.
- 4. Neha Gupta, **Arun Sharma** & Manoj Kumar Pachariya "Multi-objective test suite optimization for detection and localization of software faults", Journal of King Saud University Computer and Information Sciences, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## Dr. AMAR KUMAR MOHAPATRA

**Professor** 

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Phal

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. Bhawna Narwal, <b>Amar Kumar Mohapatra</b> , "SEEMAKA: Secured Energy-Efficient Mutual Authentication and key Agreement Scheme for Wireless Body Area Networks", Wireless Personal Communications, 113, 1985–2008, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## Dr. KALPANA YADAV

**Assistant Professor** 

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. Anupma Kaushik, Devendra K. Tayal & <b>Kalpana Yadav</b> , "A Comparative Analysis on Effort Estimation for Agile and Non-agile Software Projects Using DBN-ALO" Arabian Journal for Science and Engineering, 45, 2605–2618, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## DR. BHAWNA NARWAL

**Assistant Professor** 

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Phal

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. <b>Bhawna Narwal</b> , Amar Kumar Mohapatra, "SEEMAKA: Secured Energy-Efficient Mutual Authentication and key Agreement Scheme for Wireless Body Area Networks", Wireless Personal Communications, 113, 1985–2008, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## DR. NIYATI BALIYAN

**Assistant Professor** 

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Phal

Dean (IRD)

Dr. (Mrs.) Amita Dev

- 1. **Niyati Baliyan**, Saumya Bansal, "Bi-MARS: A Bi-clustering based Memtic Algorithm for Recommender Systems", Applied Soft Computing Journal, 97, Part A, 106785, 2020.
- 2. **Niyati Baliyan**, Aarti Sharma, "Related Blogs Summarization with Natural Language Processing", The Computer Journal, 64 (3), 347–357, 2021.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## Dr. ASHWINI KUMAR

**Professor** 

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded	
1. Rupal Shukla, <b>Ashwini Kumar</b> & Vandana Niranjan "An efficient elite group-based routing protocol for wireless sensor network, International Journal of Electronics, 1031-1043, 2020.	



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. JASDEEP KAUR DHANOA

**Professor** 

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

1.	Megha Agarwal, Jasdeep Kaur Dhanoa & Mukesh Kumar Khandelwal "Ultrawide
	band two-port MIMO diversity antenna with triple notch bands, stable gain and
	suppressed mutual coupling", International Journal of Electronics and Communications
	(AEU), 120, 153225, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## DR. NIDHI GOEL

**Professor** 

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

- 1. Monika Mathur, Diksha Vasudev, Sonalika Sahoo, Divanshi Jain & **Nidhi Goel**, "Crosspooled Fish Net: transfer learning based fish species classification model", Multimedia Tools and Applications, 79, 31625–31643, 2020.
- 2. **Nidhi Goel**, Samjeet Kaur & Ruchika Bala, "Dual branch convolutional neural network for copy move forgery detection", IET image Processing, 15, 656-665, 2020.
- 3. Monika Mathur, **Nidhi Goel**, "Colour and Contrast Enhancement Algorithm for High Visibility of Underwater images", IET image Processing, 1-16, 2020.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Dr. VANDANA NIRANJAN

**Professor** 

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. Rupal Shukla, Ashwini Kumar & <b>Vandana Niranjan</b> , "An efficient elite group-based routing protocol for wireless sensor network, International Journal of Electronics, 1031-1043, 2020.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

### DR. AKASH TAYAL

**Associate Professor** 

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

- 1. **Akash Tayal**, UtkuKose, Arun Solanki, Anand Nayyar & Jose Antonio Marmolejo Saucedo "Efficiency analysis for stochastic dynamic facility layout problem using metaheuristic, data envelopment analysis and machine learning", Computational Intelligence, 36, 172-202, 2020.
- 2. **Akash Tayal**, Arun Solanki & Simar Preet Singh, "Integrated frame work for identifying sustainable manufacturing layouts based on big data, machine learning, meta-heuristic and data envelopment analysis", Sustainable Cities and Society, 62, 102383, 2020.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. VIVEAK CHAWLA

**Assistant Professor** 

Department of Mechanical and Automation Engineering

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Phal

Dean (IRD)

Dr. (Mrs.) Amita Dev

1.	Viveak Chawla, A.K. Chanda, Surjit Angra & Sushma Rani, "Effect of nature-inspired
	algorithms and hybrid dispatching rules on the performance of automatic guided vehicles
	in the flexible manufacturing system" J. of Brazilian Society of Mech Sciences and
	Engineering, 41, 391.



Kashmere Gate, Delhi-110006

# Commendable Research Awards

Presented for Excellence in Research to

## DR. RICHA YADAV

**Assistant Professor** 

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. Pragya Srivastava, <b>Richa Yadav</b> & Richa Srivastava, "Ultra high speed and novel design of power-aware CNFET based MCML 3-bit parity checker", Analog Integrated Circuits and Signal Processing, 104, 321–329, 2020.



Kashmere Gate, Delhi-110006

# Commendable Research Awards

Presented for Excellence in Research to

### DR. VIVEAK CHAWLA

**Assistant Professor** 

Department of Mechanical and Automation Engineering

in recognition for the research during 2019 and 2020

**December 24, 2021** 



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. <b>Viveak Chawla</b> , A.K. Chanda & Surjit Angra, "Automatic Guided Vehicle Systems in Flexible Manufacturing System – A review" Int. Journal of Industrial Engg: Theory, App. & Practice, 26(5), 737-765, 2019.



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

### Dr. SHIVANI

### **Department of Applied Sciences and Humanities**

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

Dr. (Mrs.) Amita Dev

- 1. **Shivani**, Ranu Gadi, Sudhir Kumar Sharma & Tuhin Kumar Mandal "Seasonal variation, source apportionment and source attributed health risk of fine carbonaceous aerosols over National Capital Region, India" Chemosphere, 237, 124500, 2019.
- 2. **Shivani**, Ranu Gadi, MohitSaxena, Sudhir Kumar Sharma & Tuhin Kumar Mandal "Short-term degradation of air quality during major firework events in Delhi, India" Meteorology and Atmospheric Physics, 131, 753–764, 2019.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. RITU GOEL

### **Department of Applied Sciences and Humanities**

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

Dr. (Mrs.) Amita Dev

1. <b>Ritu Goel</b> , Ranjana Jha & Chhaya Ravikant, "Investigating the structural, electrochemical, and optical properties of p-type spherical nickel oxide (NiO) nanoparticles" Journal of Physics and Chemistry of Solids, 144, 109488, 2020.							



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## Ms. GEETANJALI SINGH

### **Department of Applied Sciences and Humanities**

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded							
1. <b>Geetanjali Singh</b> , Bhavani Prasad, "Development of rGO encapsulated polymeric beads as drug delivery system for improved loading and controlled release of doxycycline drug" Drug Development and Industrial Pharmacy, 462-470, 2020.							



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. SONAKSHI VIJ

**Department of Computer Science & Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Phal

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded						
1. <b>Sonakshi Vij</b> , Devendra K. Tayal & Amita Jain, "A Machine Learning Approach for Automated Evaluation of Short Answers Using Text Similarity Based on WordNet Graphs", Wireless Personal Communications, 111, 1271–1282, 2020.						



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. ANUPMA KAUSHIK

**Department of Computer Science & Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded							
1. <b>Anupma Kaushik</b> , Devendra K. Tayal & Kalpana Yadav, "A Comparative Analysis on Effort Estimation for Agile and Non-agile Software Projects Using DBN-ALO" Arabian Journal for Science and Engineering, 45, 2605–2618, 2020.							



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. KANAK MEENA

**Department of Computer Science & Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

Dr. (Mrs.) Amita Dev

research 1 abheation(s) awaraea							
1. Devendra K. Tayal, <b>Kanak Meena</b> , "A new MapReduce solution for associative classification to handle scalability and skewness in vertical data structure" Future Generation Computer Systems, 103, 44-57, 2020							



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. PALLAVI PANDEY

**Department of Computer Science & Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded							
1. <b>Pallavi Pandey</b> , Seeja K.R, "Subject independent emotion recognition system for people with facial deformity: an EEG based approach" Journal of Ambient Intelligence and Humanized Computing, 12, 2311–2320, 2021.							



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## DR. ANUSHREE AGARWAL

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Phal

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded							
1. <b>Anushree Agarwal</b> , R.K. Singh, "Predicting co-change probability in software applications using historical metadata" IET Software, 14(7), 739-747, 2020							



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. NEHA GUPTA

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

Dr. (Mrs.) Amita Dev

- 1. **Neha Gupta**, Arun Sharma & Manoj Kumar Pachariya, "Testing and debugging: an empirical evaluation of integrated approaches", Sadhana-Springer, 45,148, 2020.
- 2. **Neha Gupta**, Arun Sharma& Manoj Kumar Pachariya, "Multi-objective test suite optimization for detection and localization of software faults", Journal of King Saud University Computer and Information Sciences, 2020.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## DR. POOJA DEHRAJ

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



Prof. Ranu Gadi

Rhad

Dean (IRD)

July -

Dr. (Mrs.) Amita Dev

- 1. **Pooja Dehraj**, Arun Sharma, "An empiricial assessment of autonomicity for autonomic query optimizers using fuzzy-AHP technique", Applied Soft Computing Journal, 90, 106137, 2020.
- 2. **Pooja Dehraj**, Arun Sharma & Manoj Kumar Pachariya, "A review on architecture and models for autonomic software systems", The Journal of Supercomputing, 77, 388–417, 2021.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. SAUMYA BANSAL

### **Department of Information Technology**

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

A COLLY

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded								
1. Niyati Baliyan, <b>Saumya Bansal</b> , "Bi-MARS: A Bi-clustering based Memtic Algorithm for Recommender Systems", Applied Soft Computing Journal, 97, Part A, 106785, 2020.								



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. AARTI SHARMA

**Department of Information Technology** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded							
1. Niyati Baliyan, <b>Aarti Sharma</b> , "Related Blogs Summarization with Natural Language Processing", The Computer Journal, 64 (3), 347–357, 2021.							



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## Ms. RUPAL SHUKLA

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded						
1. <b>Rupal Shukla</b> , Ashwini Kumar & Vandana Niranjan, "An efficient elite group-based routing protocol for wireless sensor network, International Journal of Electronics, 1031-1043, 2020.						



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. MEGHA AGARWAL

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021

IGDTUW RESEARCH EXCELLENCE AWARDS

**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

two-port MIMO diversity antenna with triple notch bands, mutual coupling", International Journal of Electronics and Co	andelwal, "Ultrawide band
mutual counting, International Journal of Floatronics and Co	stable gain and suppressed
mutual coupling, international Journal of Electronics and Co	mmunications (AEU), 120,
153225, 2020.	



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. MONIKA MATHUR

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021

IGDTUW RESEARCH EXCELLENCE AWARDS

Prof. Ranu Gadi

Rhad

Dean (IRD)

July -

Dr. (Mrs.) Amita Dev

- 1. **Monika Mathur**, Diksha Vasudev, Sonalika Sahoo, Divanshi Jain & Nidhi Goel, "Crosspooled Fish Net: transfer learning based fish species classification model", Multimedia Tools and Applications, 79, 31625–31643, 2020.
- 2. **Monika Mathur**, Nidhi Goel, "Colour and Contrast Enhancement Algorithm for High Visibility of Underwater images", IET image Processing, 1-16, 2020.



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. DIKSHA VASUDEV

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021

IGDTUW RESEARCH EXCELLENCE AWARDS

**Prof. Ranu Gadi** 

Dean (IRD)

Rhad

Dr. (Mrs.) Amita Dev

1.	Monika	Mathur,	Diksha	Vasudev,	Sonalika	Sahoo,	Divansh	i Jain	& Nidh	i Goel,
	"Crossp	ooled Fi	sh Net:	transfer le	arning ba	ased fish	species	classifi	cation 1	model",
	Multime	edia Tools	s and App	lications, 7	9,31625-	-31643,2	020.			



Kashmere Gate, Delhi-110006

# Premier Research Awards

Presented for Excellence in Research to

## Ms. SONALIKA SAHOO

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

"Crosspooled F	r, Diksha Vasudev, Fish Net: transfer lools and Applications,	earning based fish	species classifica	· ·



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## Ms. DIVANSHI JAIN

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

1. Monika Mathur, Diksl	na Vasudev, Sonal	ika Sahoo, <b>Divar</b>	nshi Jain & N	idhi Goel,
"Crosspooled Fish Ne	t: transfer learning	g based fish spec	ies classification	n model",
Multimedia Tools and A	pplications, 79, 316	525–31643, 2020.		



Kashmere Gate, Delhi-110006

## Premier Research Awards

Presented for Excellence in Research to

## Ms. RUCHIKA BALA

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021



**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded				
1. Nidhi Goel, Samjeet Kaur & <b>Ruchika Bala</b> , "Dual branch convolutional neural network for copy move forgery detection", IET image Processing, 15, 656-665, 2020.				



Kashmere Gate, Delhi-110006

# Commendable Research Awards

Presented for Excellence in Research to

## Ms. PRAGYA SRIVASTAVA

**Department of Electronics and Communication Engineering** 

in recognition for the research during 2019 and 2020

December 24, 2021

IGDTUW RESEARCH EXCELLENCE AWARDS

**Prof. Ranu Gadi** 

Rhad

Dean (IRD)

Dr. (Mrs.) Amita Dev

Research Publication(s) awarded
1. <b>Pragya Srivastava</b> , Richa Yadav & Richa Srivastava "Ultra high speed and novel design of power-aware CNFET based MCML 3-bit parity checker", Analog Integrated Circuits and Signal Processing, 104, 321–329, 2020.