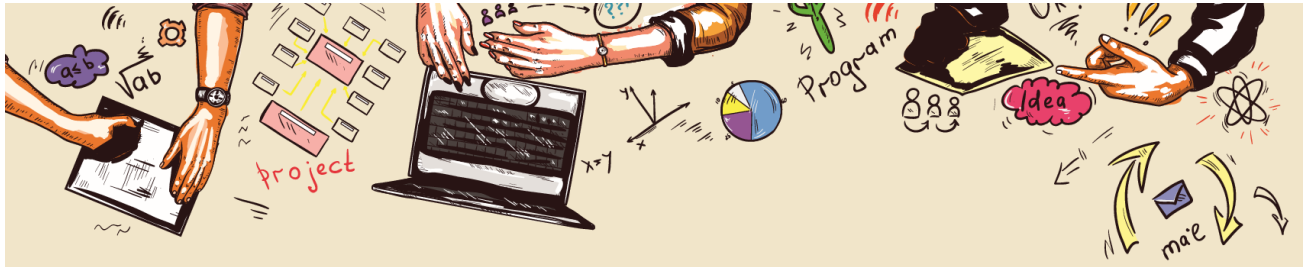




Empowering Startups at Chitkara University H.P.



WELCOME

TO

THE CHITKARA'S UNIVERSITY'S ENTREPRENEURIAL ECOSYSTEM

70
Startups
Mentored

4
Business
Incubators

110+
Startup
Bootcamps

8000+
Students
Sensitized



PRESENTED TO



Dr. Ashok Chitkara

Chancellor, Chitkara University

A renowned mathematician and a legendary academician, Dr Ashok K Chitkara is the Chancellor of Chitkara University, Punjab and Chitkara University, Himachal Pradesh. His perspective and far-sightedness in the field of education has rendered future promising prospects in the fullness of time. His contribution in the field of pedagogy is serviceable both nationally and internationally, as he always believes that education makes minds, not careers. Dr Ashok K Chitkara has always been at the forefront and is passionate for teaching and mentoring students since beginning. Born as a teacher, his journey towards excellence started with foray into the field of Mathematics, being an optimal mathematician with over 36 years of teaching and mentoring experience. A true entrepreneur at heart.



Dr. Madhu Chitkara

Pro Chancellor, Chitkara University

Dr Madhu Chitkara is founder of Chitkara Educational Trust, an organization of great repute & distinction. An eminent academician, an innovative entrepreneur, she has articulated, designed the road map for the Trust & has actively contributed to its tremendous growth and recognition in all these years and is spreading light of education in the life of tens of thousands of people. With a passion for academics and great business acumen, she has had a diversified career & variegated experience in the field of education spanning 42 years. She is highly knowledgeable, focused, a strategic leader & has a passion for excellence. She has adeptly managed numerous academic ventures and remains a true leader who leads by example, is warm, sincere and always willing to walk the extra mile to deliver on promises.



Mr. Mohit Chitkara

Vice President, Chitkara University

One of the greatest visionaries and business leader of the region, an alumnus of Harvard Business School, Mohit Chitkara is the Vice President of the Chitkara Educational Trust, Chandigarh. He is taking his parents legacy forward by running this institute. It now has six colleges under its name, from hospitality to school of planning and architecture. In coming years, Mohit would like to see Chitkara Educational Trust as the leading education provider of the country. He started with a small study centre and today, Mohit Chitkara is the VP of the Educational Trust. Based out of Chandigarh, Chitkara has seen a sharp growth since the Trust was setup in 1998. Mohit's aim is to attain a leadership position in the education space in North India.

From the Director's Desk

Dear Seniors and our Patrons at CEED,

Kindly accept my humble gratitude for all the kind support you have extended to build CEED. We are delighted to share that CEED completed its 4 years on April 16th 2020. It would have not been possible without your support to make it an engaging ecosystem builder for young aspiring entrepreneurs. Entrepreneurship is a journey for doers and passionate people, it is very individualistic and needs a confident persona to steer it. Great businesses in the world have been built out of family businesses and Universities. Universities play a key role in motivating an individual to build innovative solutions for tomorrow.

Innovation and entrepreneurship are shaping economies globally and regionally and have shaped the Chitkara University's mission to become a world-class entrepreneurial institution that contributes directly to the economic growth and development of India.

The CEED will play a crucial role in handholding of bright ideas from students, lecturers, professors, researchers, grass root innovators as well as individuals from the region to create competitive, market-ready and sustainable startups and businesses of tomorrow. Through its state of the art infrastructure, Research Centres, prototyping labs, panel of eminent mentors from Industry & Academia, CEED will de-risk the incubated startups to enhance their chance to succeed. It will enable entrepreneurs to seek seed and growth capital from various government, non-government funding agencies, HNI's, Angel investors and Venture Capital Firms. We will help entrepreneurs to identify potential innovations, protect them under IPR law framework and provide access to markets. We are working towards creating a world-class startup ecosystem. This year we wish to especially thank our partners Startup Himachal, Natio Cultus, Ingenious Faces, CII, TIE Chandigarh, Chandigarh Angels Network, Aiotize, EY, Alphie, Datatobiz for their great support to our programs and endeavours.

We are proud to mention that we have recently received a grant from Himachal CM Startup Scheme. I firmly believe CEED will become the nucleus for the future growth of the region. I invite you all to be part of this exciting journey.

Best Wishes,

Sumeer



INDEX

# About CEED.....	8
# How CEED Operates.....	9
# CEED Core Team.....	10
# The Journey.....	12
# Building the Ecosystem Support.....	13
# Key Initiatives.....	14
# Startups @CEED.....	15
 # May 2019.....	 16
1. 1st May: Release of Annual Report 2018-29	
2. 23rd May: 5th Smart Cities India 2019 Expo	
 # July 2019.....	 18
1. 14th July: CAP Session at CUPB	
2. 19th July: BigShift by Inc42 and Digital-Ocean	
3. 25th July: Student Entrepreneurship Drive	
4. 27th July: Ambassador of Nepal Visits CIIF	
5. 30th July: Techstars Startup Weekend Bootcamp-1	
 # August 2019.....	 20
1. 1st Aug: E-Cell Orientation Botcamp-1	
2. 9th Aug: Meridian ("Setting an Entrepreneurial Culture")	
3. 11th Aug: Fresher's Orientation Session on Entrepreneurship	
4. 27th Aug: Open Government Data Hackathon 2019	
5. 30th Aug: Techstars Startup Weekend Bootcamp-1	
 # September 2019.....	 24
1. 17th Sep: Creative Writing Workshop	
2. 20th-22nd Sep: Techstars Startup Weekend Baddi Women Edition	
3. 23rd Sep: Mentor Mentee Series Vol-III	
 # October 2019.....	 28
1. 12th Oct: CANNABLE 3.0	
2. 16th Oct: Global Entrepreneurship Week (GEW)	

# November 2019.....	30
1. 1st Nov: HP Government Conducts Startup Interview for Entrepreneur in Residence (EIR)	
2. 5th Nov: CUHP Startups Participate at Punjab Innovation Summit	
3. 7th Nov: Rising Himachal Investor Summit	
4. 7th Nov: CUHP Startups interacts with Asha Jadeja Motwani at TiE Delhi	
# December 2019.....	32
1. 14th Dec: HP Team Attends Environment Summit at JW Marriot Chandigarh	
# January 2020.....	33
1. 14th Jan: Global Accelerator Program	
2. 15th Jan: CUHP E-Cell Member Visit to Incubator "CIIF"	
3. 23rd Jan: CII North Region Startup Conclave	
4. 24th Jan: Exhibition cum Industry-Academia Meet	
5. 27th Jan: Third Roadshow on NIDHI Accelerator Program	
# February 2020.....	36
1. 6th Feb: CUHP Startups at Asia Inc. 500 NexGen Summit 2020	
2. 7th Feb: CUHP Startups at IFF (India Fund Fest)	
3. 14th Feb: Conference on Strategy for India @ 75 attended by CUHP Mentors	
4. 28th Feb: CEED Mentor Speaks at MASH Mixer on Women Entrepreneurship	
# March 2020.....	39
1. 3rd March: Upcoming Hackathons Awareness Bootcamp for Students	
2. 14th March: FEP (Faculty Enablement Program)	
# Approval of Grant from Himachal Pradesh Government.....	41
# Startups Incubated Under Startup Himachal Scheme.....	42
# CUHP Startups Featured in Times of India and ZEE News And Various Platforms.....	44
# About E-CELL CUHP.....	45
1. Team and Key Roles	
2. Architecture of E-Cell, Chitkara University	
3. Objectives of E-Cell	
4. Benefits for Students with E-Cell Registrations	
5. CUHP Membership Overview	
# Funding Support Given So Far.....	48
# Impactful and Our Signature Events.....	49

# Focus on Industry Network.....	50
# Programs That Make a Difference.....	50
# Our Alumni Startups CUHP.....	51
# Glimpses of E-Cell CUHP.....	52
# CUHP Startups in News.....	53
 # Chitkara University, HP - Patents/IPR.....	 54
1. Meet the Team	
2. A Quick Look At The OPFLC	
3. Patents Filed in 2019-20	
4. Patents Published in 2019-20	
5. Taking IP Towards Commercialization	
6. Hottest Patents Under Commercialization	
7. Incubated Patents	



CEED is an entrepreneurship development endeavor of Chitkara University to develop a mindset of being an entrepreneur while a student is in its academic tenure. CEED focuses on identifying the right individuals who have the ability to take on the tough & precious journey as an entrepreneur. More than mentoring, our team focuses on caring of these individuals by providing them a platform to ideate independently and enjoy the creative freedom. Most of the big startups like Facebook, Google and Flipcart and lot many more are born out of an academic environment CEED has a structured setup where it has 2 entrepreneurship development cells which are run by the students under the guidance of a dedicated mentor.

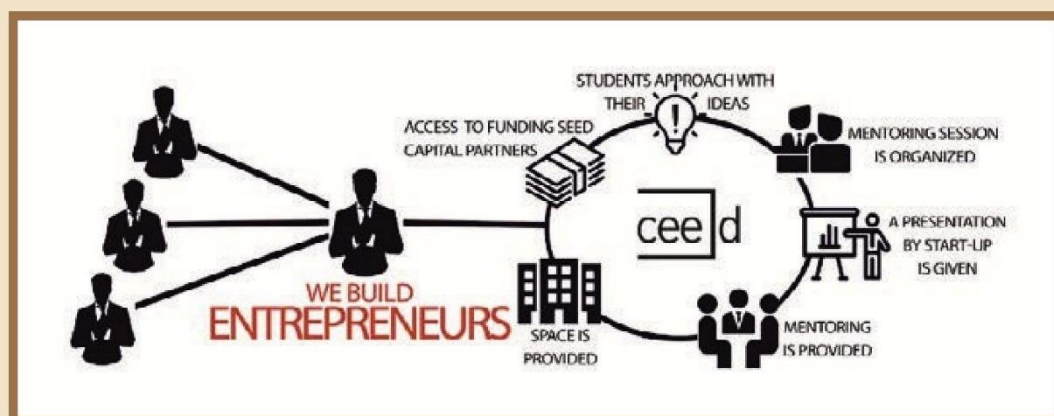
The key culture of CEED lies in early stage facilitation of its student's startups through provision of working space, POC (proof of concept) assistance and prototype grants.

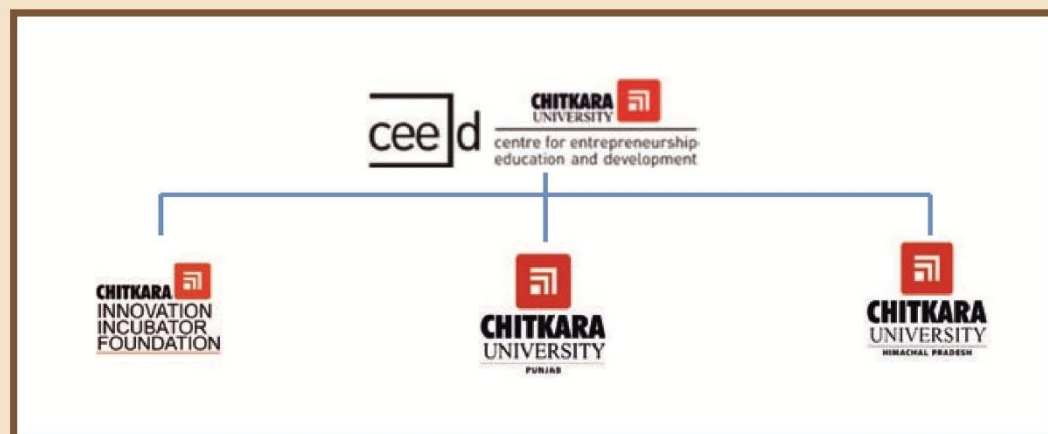
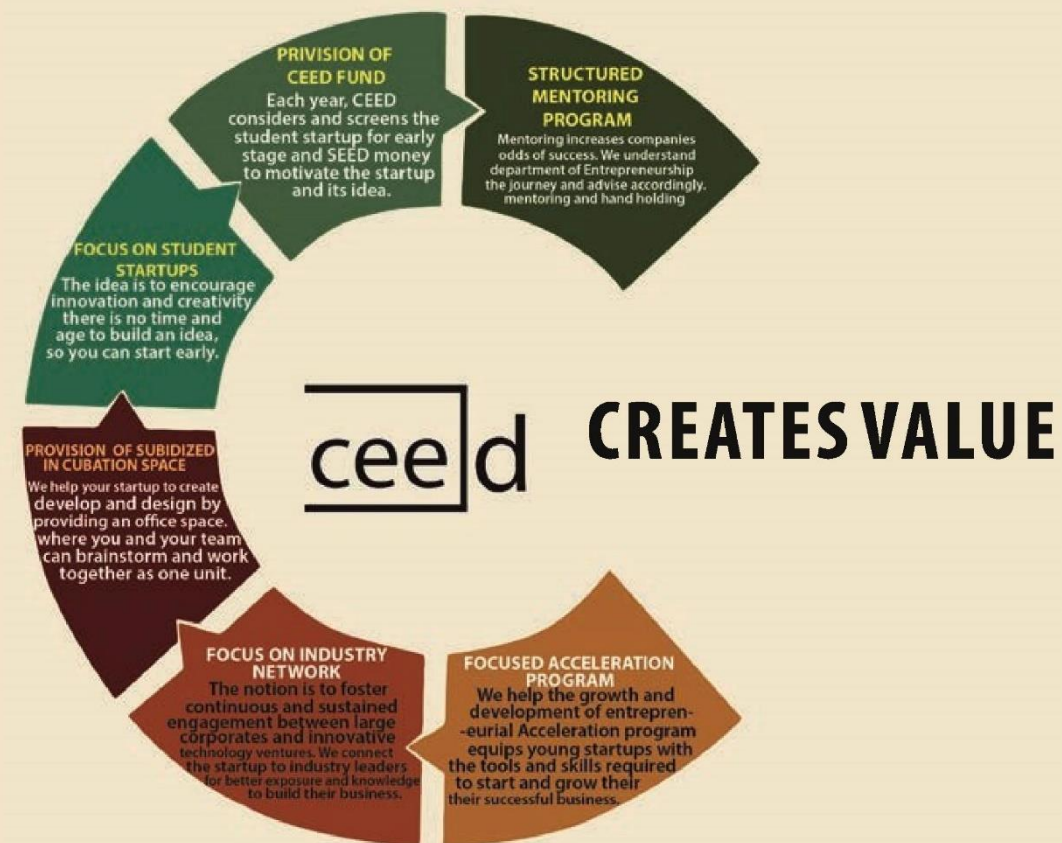


CEED is enthusiastic to evolving vibrant, principled and socially accounted entrepreneurs through an all-inclusive slant of global entrepreneurship platform including entrepreneurial way of discerning, training and constructing confidence for the future members of our society.

The members through a real-world and hands and hand-on approach to wisdom cultivate amongst themselves critical entrepreneurial performances and attitudes, advance essential knowledge and skills, and are able to discourse everyday problems faced by the community.

CEED AIMS TO FOSTER A WHOLESOME ECOSYSTEM FOR STARTUPS





CEED CORE TEAM & THEIR BRIEF



MR. SUMEER WALIA
(DIRECTOR, CEED)

A though leader, Mr. Sumeer Walia has over 16 years of Industry experience, both in India and Abroad. He has been an active enabler in Startup Ecosystem development in Punjab/Haryana and Chandigarh region, he is currently the Director for Entrepreneurship and Education development at CHITKARA UNIVERSITY and also Director at Chitkara Innovation Incubator Foundation, an Incubator for Startups located near Chandigarh, India.

MS. ABHA SHARMA
(Mentor, CEED)

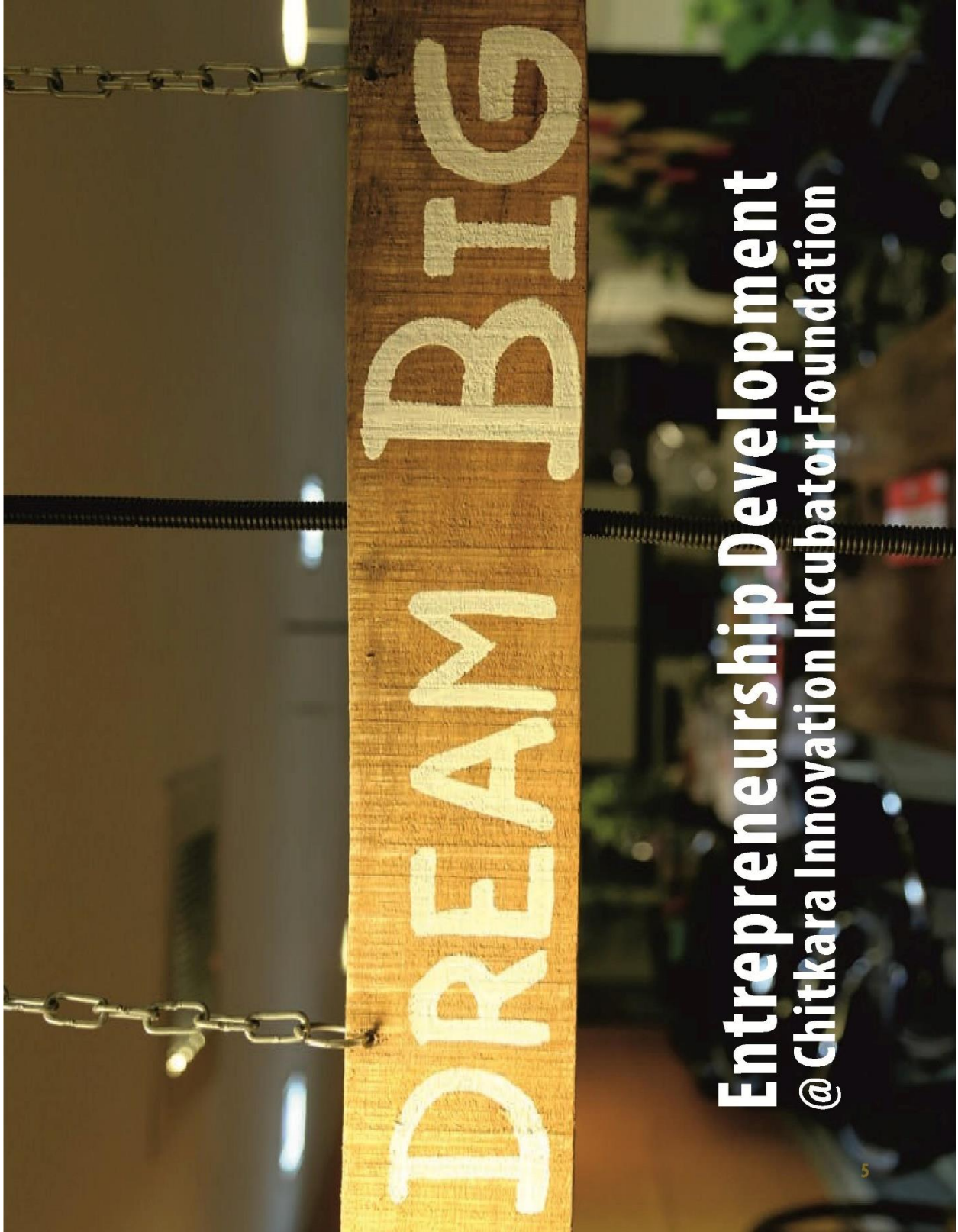


Inquisitive knowledge in computer science with 7+ years of experience as Assistant Professor. Heading the entrepreneurial activities as Senior Mentor at Chitkara University Himachal Pradesh under CEED. The major role is to build a startup ecosystem in university and cater to the needs of student startup queries. She has been organizing international program-TechStars Startup Weekend since 2017. She is currently on mentor board of two women lead startups who have won various competitions and prizes of 8+lacs.



DR. NEERAJ KUMAR
(Mentor, CEED)

He is an Entrepreneurship Enthusiast and is in the entrepreneurship ecosystem for more than 4 years now. Currently, he is mentor at Centre for Entrepreneurship Education and Development (CEED), Chitkara University, Himachal Pradesh which is registered under Start-up Himachal scheme of Government of Himachal Pradesh. He is taking care of youth awareness camps, grants, building entrepreneurship ecosystem and he is also taking forward the IPR towards commercialization.

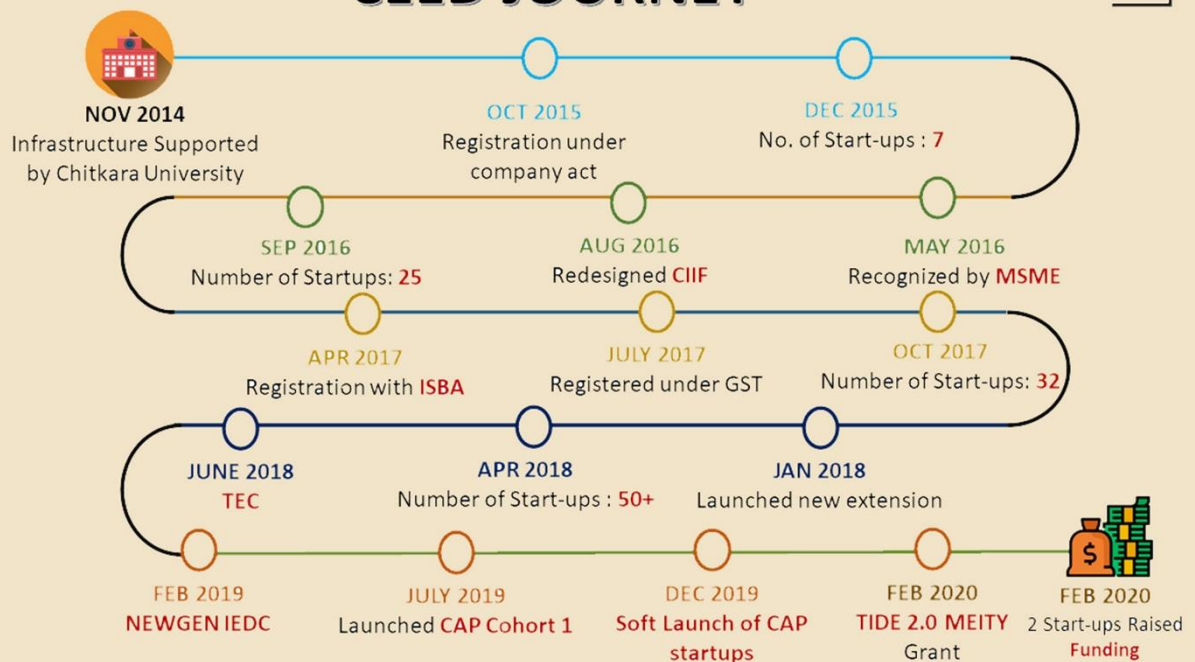


Entrepreneurship Development @ Chitkara Innovation Incubator Foundation

5

THE JOURNEY

CEED JOURNEY



Building the Ecosystem Support

@CEED

OUR START-UP INCUBATION ECOSYSTEM



CHITKARA INNOVATION
INCUBATOR FOUNDATION
(CIIF), CHANDIGARH

18000 Sq-feet

STARTUPS : 40+



EXPLORE HUB, CHITKARA
UNIVERISTY, PUNJAB

7000 Sq-feet

STARTUPS : 12+



EXPLORE HUB, CHITKARA
UNIVERISTY,
HIMACHAL

3000 Sq-feet

STARTUPS :10+



CHITKARA INNOVATION
INCUBATOR FOUNDATION
(CIIF), MOHALI

10000 Sq-feet

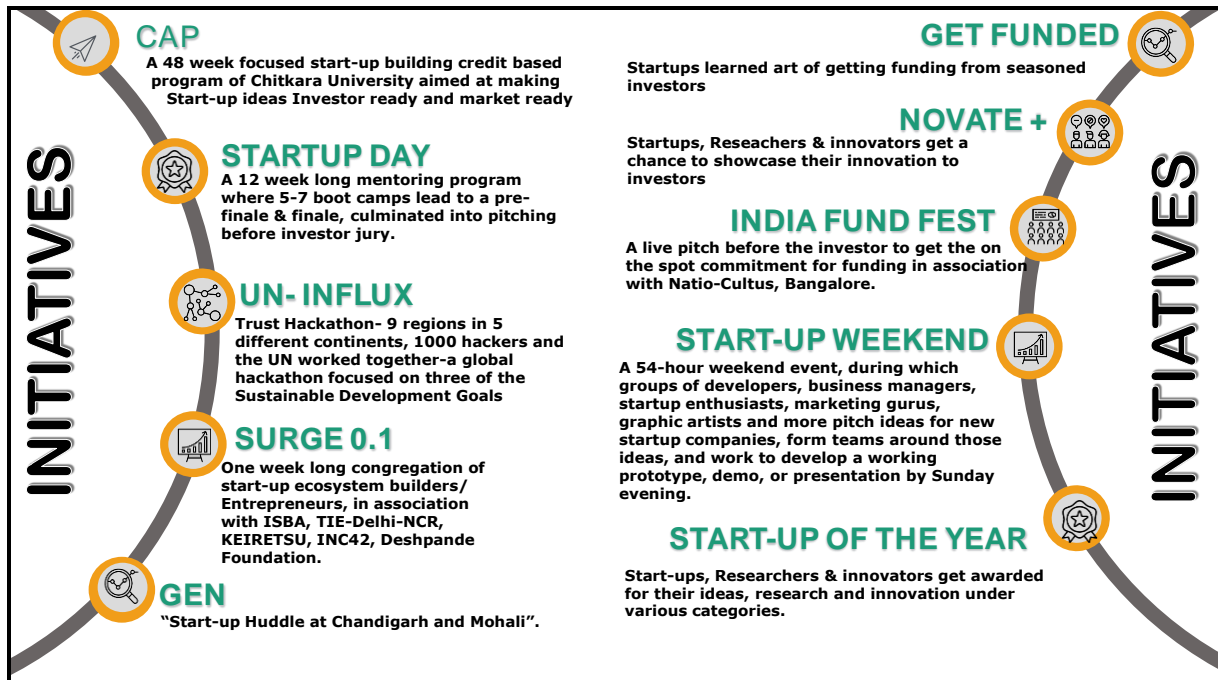
PROJECTED: 24

COMMUNITY PARTNERS

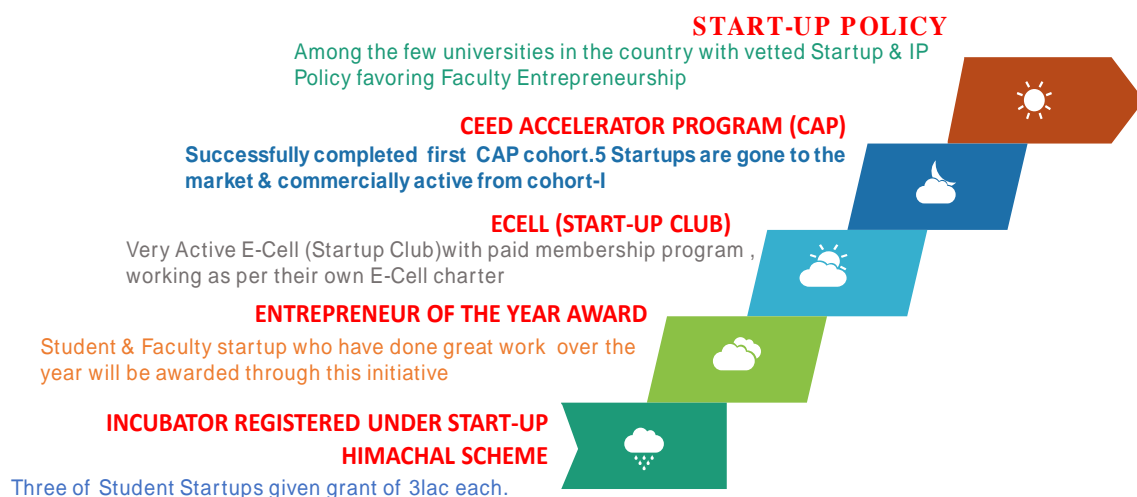


Key INITIATIVES

@CEED

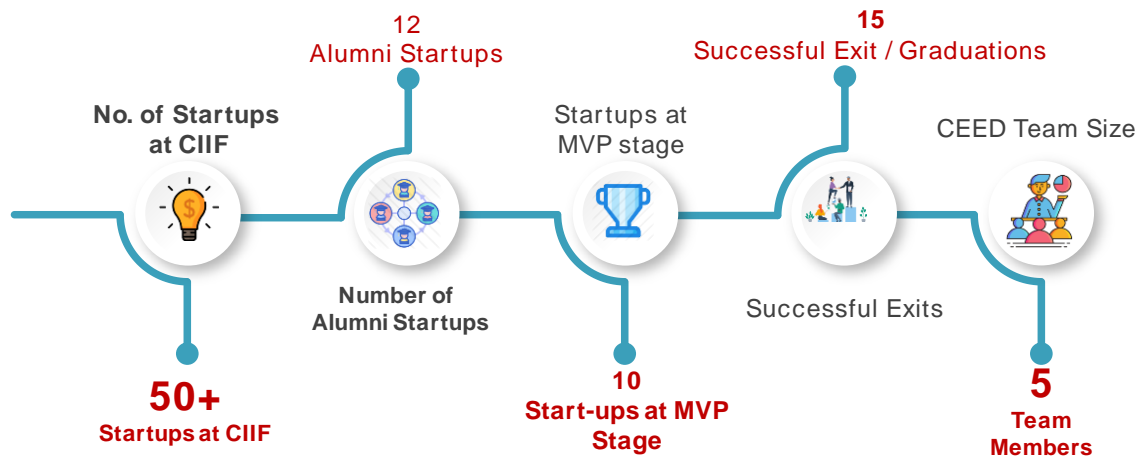


MAJOR INITIATIVES



STARTUPS @CEED

WHERE WE ARE TODAY ..



KEY STARTUPS IN MARKET 2015-2020



Release of Annual Report 2018-2019

Dated: 1st May 2019

Venue: Explore Hub

As the academic year 2018-2019 comes to a closure centre for entrepreneurship and education come up with its annual report to delineate its various events and achievements. The focus of launch was to have a team on a common platform and cherish the success for its current tenure. Director CEED, Mr. Sumeer Walia and Vice Chancellor Dr. Varinder Kanwar along with team launched the Annual Report. The aim to have the annual report is to celebrate people who have made significant impact in entrepreneurial ecosystem.



5th Smart Cities India 2019 Expo

Dated: 23rd May 2019

Venue: Pragati Maidan

5th Smart cities India 2019 Expo held from 22nd -24th May 2019 at Pragati Maidan, New Delhi. It was a platform that provided an opportunity towards more practical approach to resolve societal problems and other business opportunities towards making smart cities. It was a great platform for B to B companies where companies which are already selling their products were exploring for new clients.

The expo assured providing high quality living, EXPO witnessed presence of global leaders, government administrations, Delhi municipal bodies. Ms. Abha Sharma and Ms. Jugneet Bajwa from CEED, Chitkara University visited the Expo on 23rd May 2019 and interacted with many IOT and AI based companies, solar panel installation companies, data control and data management companies which were of interest as per students point of view. Some companies were also interested to offer internship to the students to work on live projects. Other companies also displayed their products in security cameras, surveillance, parking and traffic management, smart water management, smart batteries, sensors, builders, solar systems, smart mobility etc.



CAP session at CUPB

Dated: 14th July, 2019

Venue: Explore Hub, CUPB

An icebreaking session by Chief mentor of CAP Mr. Nalin Singh, Founder Natio Cultus was conducted for students who were eager to join the world of entrepreneurs.

The goal of the session was to conduct research to understand focus of student's startups and

provide ample data related to the awareness about the Startups, Competent Leadership, qualitative findings about ideas from surveys and based on these statistics how one understands the reality check before stepping into the market. Our three student startups namely CORRDS, Adversity and Salvators got a chance to experience one to one mentoring.

Bigshift By Inc42 and Digitalocean

Dated: 19th July, 2019

Venue: Space Jam, Chandigarh

The BIGShift event was held in the city on the 19th of July at SpaceJam. Over 10 budding startups along with Ms. Abha Sharma, Professor-CEED represented Chitkara University at the event. In BIGShift Pitch, the micro-mobility startup, Zadd Bikes, impressed the jury to emerge as the winner

Mr Vineet Khurana, VP of Chandigarh Angels Network, with more than 10 years of industry experience moderated the discussion. Sumeer Walia, the director of the Centre for Entrepreneurship and Education Development (CEED); Kunal Nandwani from uTrade Solutions and Ritika Singh, founder, Kontent Factory joined the discussion as panelists.

Mr Sumeer Walia told the audience that he believes the Chandigarh startup ecosystem lacked the environment that creates the drive for entrepreneurship, unlike in Tier 1 cities. Tier 2 cities such as Chandigarh need the infrastructure and the conditions that motivate entrepreneurs to start their own venture and work on ideas.



Student Entrepreneurship Drive

Dated: 25th July, 2019

Venue: CUHP

The more driven you are, the less intimidated you're going to be when the inevitable challenges pop up along your journey. Before you dive into the world of entrepreneurship, think carefully about what it is, exactly, that you want out of the experience. Understand your own motivations before you get involved; you'll find yourself more satisfied in the long run.

E-Cell executive team had organized Entrepreneurship drive from 25th to 31st of July. The goal of this drive to make students aware about the signature events of E-cell and motivated to become members of the E-cell, with some of the simple tips that will help stick to goals for the whole year.



cee d **CHITKARA UNIVERSITY**
centre for entrepreneurship education and development

e-cell
CHITKARA UNIVERSITY HIMACHAL PRADESH

LAUNCHES

MEMBERSHIP DRIVE

Visualize yourself as you want to be.

Perks of being an E-Cell member:

- Develop leadership and event management skills.
- Build confidence and public speaking abilities.
- Expose yourself to the entrepreneurial ecosystem.
- Enhance planning and problem solving.
- Recognize commercial opportunities.
- Learn to manage resources.
- Social development and interaction.
- Facilitate entrepreneurial mindset.
- Opportunities to do paid internships
- Quarterly excursion and networking opportunities.

For More Info:
Shraddha Thakur
President E-Cell
+91 6239444935



Interactive Session on Entrepreneurial Ecosystem Ambassador of Nepal Visits CIIF and Meets its Startups

Date: 27th July, 2019

Venue: CIIF

Relation between India and Nepal has always been special in many ways. Nepal culture has always astonished India. It was an honour to host H.E. Nilambar Acharya ambassador of Nepal at CIIF, where Students from Chitkara University, Himachal Pradesh interacted and shared their experience how the Indian ecosystem is supporting student startups. He was thrilled to interact with Nepalese students studying at our campus. Students strongly proposed the ambassador for opening of an incubation centre supported by Chitkara Startup Ecosystem.

TechStars Startup Weekend Bootcamp-I

Date: 30th July, 2019

Venue: Audi 108



The upcoming Startup Weekend is on its grand pace for which CEED organized a “Bootcamp for on July 30th, 2019 at Chitkara University, Himachal Pradesh. The motive of this bootcamp was to acknowledge the students about the forthcoming event that is Chitkara’s 2nd Startup Weekend women Edition. The session was taken by Ms. Abha Sharma, the key person responsible for the organizing the event. She has been playing a significant role in nurturing the students’ ventures in the start-up ecosystem.

The budding entrepreneurs were then

apprised of the existing and upcoming student startups of E-Cell. The entire session was indeed a fount of knowledge and boosted the students to take active part in the upcoming Startup Weekend 2019.

E-Cell Orientation Bootcamp-II

Date: 1st August, 2019

Venue: Explore Hub

CEED organized its first evening bootcamp for the Fresher Batch welcoming them to the vibrant community of entrepreneurs. The session was conducted in a very interactive manner where students got an opportunity to ask and answer questions. Team building activities were performed that provided the budding entrepreneurs with learning outcomes of teamwork and coordination. A mock problem identification activity was performed where students were

asked to identify problems and seek solutions. The vision of E-Cell was projected and the upcoming mega event Global Startup Weekend Baddi was promoted.

MERIDIAN

“Setting an Entrepreneurial Culture”

Date: 9th August, 2019

Venue: Explore Hub

Team CEED CUHP organized an event named Meridian on 9th August 2019 where CEED Accelerator Program (CAP) entrepreneurs visited the Himachal campus. The event started with a brief functioning of the E-cell and the striking rise of entrepreneurship culture at Chitkara University Himachal Pradesh.

The students were addressed by Dr. Varinder Kanwar, Vice Chancellor CUHP who interacted one to one with the students representing their ideas and imparted profound knowledge with his learning experiences. The E-Cell of the both the campuses expressed their objectives and clear targets to build a healthy ecosystem with entrepreneurial mindset. The exchange tour of CAP entrepreneurs was indeed an insightful experience where business activities were performed for making learning fun and amusing.

#entrepreneur #entrepreneurlife #ecellcuhp



Fresher's Orientation Session on Entrepreneurship

Date: 11th August, 2019

Venue: Audi 104/Explore Hub

For would-be entrepreneurs needing to drive entrepreneurial initiatives – leading to the question ‘Do I really need to be another Steve Jobs to succeed?’ Steve Jobs' line when he once said, “If you’re not passionate enough from the start, you’ll never stick it out.”

Encouragement for the daunted comes from new possibilities, which counter the conventional wisdom and suggest that investing effort in a new venture or product is actually what matters.

What we do at CEED

Students were explained how CEED provides guidance, and hand holding in terms of finance, mentoring, community building, idea to commercialization to creating an IP. The students responded very well and were showing interest.

Discover your entrepreneurial greatness

What we really hope is that people realize that being a passionate entrepreneur is not something you’re just born with. Understand the market needs, identify your skill set, explore the nature of change. Students were introduced about the signature events of E-cell and motivated to become members of the E-cell which will help them to get some practical skills.



Open Government Data Hackathon2019

Date: 27th August, 2019

Venue: EDC Chandigarh

A Challenge for Entrepreneurs, Innovators, Start-ups and MSME to create unique and innovative service delivery Applications to foster data driven innovation was organized by NIC (National Informatics Centre). The aim is to look for local solutions to the local



problems by the local entrepreneurs. This was a Nation-Wide Hackathon across four cities of India, which aims to Support & Showcase potentially great Ideas/talent from across the country by reaching out to various cities. 25 E-cell Students and student startups from CEED, Chitkara University attended the workshop organized by Startup Punjab @EDC Chandigarh.



TechStars Startup Weekend Bootcamp-III

Date: 30th July, 2019

Venue: Explore Hub

CEED conducted its second evening bootcamp for Startup Weekend Baddi at Explore Hub which was witnessed by an interactive audience of more than 30 students. They were acknowledged about the upcoming mega event "Startup Weekend" by putting up a spectacular show with videos and team building activities. The team exposed the students a diverse range of networking events, mentorship series and much more. The students some residential staff members also took keen interest in the E-cell culture and working environment. The event was a success, later participants relished the refreshments.

Creative-Writing Workshop

Date: 17th September, 2019

Venue: 102

E-Cell Chitkara University Himachal Pradesh organized an event named “Creative-Writing Workshop” on September 17th 2019 where the moderator for the workshop was Ms. Gauri Nagpal, who is widely known for her eloquence in the English language.

She has pursued her academics in this language and thus masters it with utmost articulation. The students were intrigued about the workshop and the way it was channelizing their mind framework.



The moderator then explained the apt way of delivering a pitch for the student’s business ideas and how to cover the elevator pitch in less than 60seconds. Positive feedback from students was given as to organize more such events in future to improve their soft skills. As the workshop came to an end, the guest was presented with memento from the E-cell team as a token of gratitude. Later students interacted with student on one to one basis for various aspects of needing good presentation skills.

Mentor Mentee Series Vol-III

Date: 23rd September, 2019

Venue: Audi 104

E-Cell Chitkara University Himachal Pradesh organized an event named “Mentor – Mentee Series Vol-III” on September 23rd, 2019 where the guest speaker were Mr. Avelo Roy (MD Kolkata Ventures), a serial entrepreneur who has built over 8 businesses in the US, 3 times TedX speaker and Investor. The event witnessed an audience of over 250 students and 4 teachers.

The expert talk shared insights about his entrepreneurial journey from the age of 19 to build a successful multi-million dollar business. He made the definition of business model and entrepreneurship in simplified manner to the students.

He shared his mantra of growing your business using technology for building a scalable business model. His preaching from the Bhagavat Gita incorporated in the business decision-making and mentorship brought a positive impact on the audience.



The entire session was interactive and he demonstrated his idea with lot of examples and life experiences. Later, the guest was presented with memento from the E-cell team as a token of gratitude.

Techstars Startup Weekend Baddi Women Edition **20th-22nd September 2019**

Startup Weekend is a 54-hour event that brings together global Women Startup Entrepreneurs like designers, developers, Techies, and experts from all domains to do amazing things.

2nd Startup Weekend Baddi-Women Edition was hosted by Chitkara University from September 20th to September 22nd, 2019 and was also supported by Government of Himachal. It was completely led by community leaders – Sumeer Walia, Abha Sharma and volunteers Shraddha, Pranav, Saurabh and Nandini. The event witnessed 102 participants comprising more than 50% women. 11 ideas were shortlisted by a voting process from a pool of 41 ideas.

Day one started with inauguration where Ms. Ritu Singal, Mr. Aditya Dave and Dr. Varinder Kanwar did the lamp lighting and wished the participants fortunity. Day 2 of SW Baddi started with mentors in the house to help the freshly built startup ideas.

The final presentation do on Day-3, where jury panel included eminent personalities like Mr. Avelo Roy (MD Kolkata Ventures), Ms. Vidushi Malhotra (Co-Founder & Chief Strategist at Ingenious Faces), Mr. Nalin Singh (Founder Natio Cultus), Mr. Shivdeep Brar (Founder & CEO: Agvisi Technologies Pvt Ltd.). A total of 11 teams demonstrate their MVP (minimum viable product), business model and their execution strategies in front of the judges.

The selected pitches were:

- **Water Desalinator**

Solving the problem of Water deficiency by converting saline water to purified form. This will help improve the usage of water by recycling and in turn will help to conserve water.

- **Rishton ka Chulha**

The Dabba concept getting popular in metro cities, the idea is to connect with technology and providing opportunity to home makers and also providing healthy meals to consumers.

- **Docs Now**

The idea is to connect and provide the user with various medical services that can cater the needs of clients with time flexibility. Also ensure that your professionals and bring comfort to your loved ones.

- **Desk Store**

“Providing refurbished and upgraded laptops”. You don’t need computing freedom by paying a hefty price when you can get refurbished laptops which will include all popular brands like HP, Dell IBM and Toshiba

- **reaLancers**

The idea is to provide a platform to solve B2B need of labour requirement during peak season. Connecting labor force and providing them employment according to their skill. It will also capture the on-demand ecosystem of India.

- **Pitstop**

A new age e-commerce, trade analyst and smart delivery service. Transactional brains of offline shop. The aim is to provide essential items such as groceries, toiletries and stationary items to hosteler students. Future prospective is to create a network of offline sellers by providing them their trade analysis so that they can grow in a short period of time.

- **Po-Go**

Find play pals by booking best turf grounds. The venue for the ground can vary as per the convenience of user based on location, popularity and reviews.

- **Boom Beventos**

A start-up targeting the events and making them theirs by starting an event management company. They will ensure that the entire event/ function is organized in a well-regulated manner and the people associated with the event get a chance to relax and enjoy in their functions.

- **Heartstring**

The idea is to connect women according to their skill thereby promoting women empowerment. This will help the women in our society to grow and come up with their talent and promote value by sales of hand-made goods.

- **Vest the waste**

The idea is to manage waste by providing waste management services and also segregate the waste for better disposal and saving the environment.

- **Sensei**

To make a routine monitoring device, which will provide a time table based on the routine and help students to manage their schedule. This will help students manage time and keep them organized.



TOP THREE WINNERS:

1. REALANCERS
2. PITSTOP
3. VEST THE WASTE

What the Winners Got:

- ✓ A fully-sponsored trip to one participant from the winning team to Singapore for the Global Startup Weekend.
- ✓ A co working space for 1 year
- ✓ Counseling for space allocation
- ✓ Structured Mentoring Process for the startup founders and feasible potential ideas
- ✓ Apt Execution guidance
- ✓ Team Building and Skill Sourcing Guidance
- ✓ Space and Fund as required

CANNABLE 3.0

An Angel Network Forum

Date: 12th October, 2019

Venue: IISER, Mohali

CANNABLE is an initiative taken by Chandigarh Angels Network in 2017 with an aim to sensitize the start-up ecosystem of the Chandigarh tricity region by bringing together seasoned entrepreneurs turned angel investors, budding start-ups and aspiring entrepreneurs on a common platform.



E-Cell Chitkara University Himachal Pradesh had registered the start-ups from university level for CANNABLE 3.0.

The elevator pitches were held at Software Technology Parks of India (*STPI*) centre at Mohali, Punjab on October 10th, 2019 where 3 teams from Chitkara University pitched their respective ideas.

1. SPM Bioplastic Pvt. Ltd.
2. Adversity
3. reaLancers

With over 50+ start-ups and aspiring entrepreneurs who were part of the elevator pitch, one start-up project “SPM Bioplastic Pvt. Ltd.” from Chitkara University got shortlisted for the CANNABLE 3.0 scheduled on 12th October, 2019 at IISER Mohali. They were asked to answer comprehensively about the Proof of Concept (POC), the initial capital required and the timeline of the start-ups. All the start-ups were appreciated and well-applauded by the investors and jury panel.

GEW (“Know our startup ecosystem”)

Dated: 16th October, 2019

Venue: Conference Hall

At CEED we realize the disruptive potential of startups. As Chitkara University brought 'a world of infinite possibilities' to its students by hosting Global Week, from October 14-18, 2019, for a one-of-a-kind global engagement event and celebration of diversity through cross-cultural exchange and knowledge transfer Director CEED Mr. Sumeer Walia gave an insight of innovation support that university provides the students. Over 55 distinguished Guest Professors representing about 39 prestigious Partner Universities from 22 countries were a part of the event to make it a roaring success.



HP Government Conducts Startup Interview for Entrepreneur in Residence (EIR)

Dated: 1st November, 2019

Venue: Director Industries Shimla

3 student startups from Chitkara University, Himachal Pradesh were called upon by Director Industries Shimla under Startup Himachal Scheme.

The student startups namely reaLancers, SPM Bioplastics and Adversity pitched their startup ideas and were scrutinized by Ms. Dipika (Deputy Director Industries Shimla) and Mr. Aakarshan Sethi (Startup Himachal Team). Sahdev Kharab, Pranav Goyal, Nandini Shahi & Saurabh Sharma respectively represented their ideas claiming to solve challenging issues in the Himachal region and having competitive advantage.

Embracing the change to drive innovation, three of the student startups were selected and got 1 year incubation space at one of its registered incubation centre Chitkara University Himachal Pradesh and Rupees 25k per month as stipend. Apart from these startups are eligible to get up to 10lacs for marketing & commercialisation of their startups.

CUHP Startups Participate at Punjab Innovation Summit

Dated: 5th November, 2019

Venue: The Lalit

Proud to share the facilitation ceremony of Chitkara University as a partner of Punjab Innovation Summit. The award was received by honourable Dr. Madhu Chitkara. Chitkara University showcased its startups and diverse entrepreneurial culture in the university.

Honourable Finance Minister Manpreet Singh Badal, Secretary S&T Sh Rakesh Verma-IAS, visited Chitkara University's stall and personally interacted with our innovators.

DAT, a startup on painless and affordable braille education has won the best Innovative and impact creating Startup of the Summit with 50 k award from Thapar engineering college and a trip to Singapore.



Team Chitkara Participate at Rising Himachal Investor Summit

Dated: 7th November, 2019

Venue: Dharamshala

Team CEED witnessed one of the biggest Global Investors Meet 2019 organized by state Government of the Himachal Pradesh. Himachal Govt launches its IT policy for young entrepreneurs with multiple Fiscal incentives for IT entrepreneurs at day 2 of the Rising Himachal Investor Summit at Dharamshala.

Top panellists at the IT & Electronics panel: Mr. Ram Lal Markanda- IT & Agri minister HP, Timothy A Gonzalves Director IIT Mandi, Onkar rai- DG STPI, Ajay Sawhney- Secretary IT & Electronics-Govt of India, Manoj Chugh- President Innovations-Mahindra & Mahindra. The massive event has garnered a focused footfall with the Top most, central and state government bureaucrats, Ecosystem giants and enablers from Northern region, CII-E&Y and other policy makers are steering the event. Along with the sectoral sessions, Key note addresses are underway from Cabinet Ministers on the likes of Sh Amit Shah-HM, Sh Piyush Goyal-Rail & Industry Min, cabinet minister Anurag Thakur and a few more. The submissions from industry chiefs focused on setting up a Centre of excellence for Artificial Intelligence, which was well received. The event aspires to be in line with aligning the mission of the centre with the mission of the States, especially for Himachal which is struggling to be cash surplus. While the event opens new opportunities for deserving Student entrepreneurs in HP, it also aims to step up their ambitions.

CUHP Startups interacts with Asha Jadeja Motwani at TiE Delhi

Dated: 7th November, 2019

Venue: Taj, New Delhi

Chitkara University and its entrepreneurship innovation initiatives on display at the TIE Global Summit 4.0 "Indian Startup: Global Footprint". The summit dipped in fever of entrepreneurship and aims to build ecosystem connectivity- both local and global. Actress Diya Mirza glittered the evening with a wonderful fire side chat.

Asha Jadeja Motwani at Chitkara University's stall, in conversation with our Start-ups. Asha Jadeja Motwani, world renowned philanthropist and Investor meets one to one Chitkara University startups and innovators at TGS. Having invested in over 100



startups, some of which have gone on to become public companies. Asha has initiated the spread of the maker movement in Africa, India, Pakistan & Brazil. She also actively supports non-formal education, and women entrepreneurs. She runs the famous Makers Fest India each year and is the main trustee of Rajeev Circle Fellowship.

CUHP Team Attends Environment Summit at JW Marriot Chandigarh *“Role of being a Social Entrepreneur”*

Dated: 14th December, 2019

Venue: JW Marriot, Chandigarh

A Regional Conference organized by Department of Science, Technology and Environment here on December 14, which was presided over by Justice Adarsh K. Goyal, Chairperson, National Green Tribunal, New Delhi. The Conference under the theme “No Time Left, Act Now” mainly covered various issues like healthy environment for healthy people; state action plans; the journey so far; best practices for environmental protection and management and role of research, innovation and technologies in facing environmental challenges so as to come out with a concrete but realistic way forward in consultation with various state holders.

Mr. Verma further said that this Regional National Conference is being organized towards generating awareness among the various stake holders and departments to apprise them of their responsibilities to protect the environment. Various departments, stake holders, leading experts in the field of environment pollution and its control, strategists, national level research institutes, universities and research scholars came out with a blue point for future course of actions.

Student Startups attend Global Accelerator Program

Dated: 14th January, 2020

Venue: Audi 104

We help ambitious entrepreneurs scale!! Through the Global Accelerator program, we at Chitkara University, Himachal Pradesh aim to provide services that are tailored to business incubators and accelerators that wish to be more #connected, #effective, #successful, and #sustainable. Under the #GAP students got to interact with entrepreneurs from #SouthAfrica, Siyanda Kobokana working on Higher Education, Mahlubonke Gladstone Ntuntwana with expertise in E-commerce platform, Kian in the domain of Construction Management, Naledi Lauretta Mahlase in the area of Cosmetics, and three #entrepreneurs from #Netherlands, Monique Custers working under #Civic #engagement for #Community #Empowerment, Alex Bakker & Mario Georgiev with a startup Commute Last Mile. Various #design thinking activities were conducted where our budding student entrepreneurs got a flavour of an #international #ecosystem.

#CEED #InternationalEntrepreneurs #StudentEntrepreneurs #Startup #ChitkaraStartups
#ChitkaraIncubator



CUHP E-Cell Member Visit to Incubator “CIIF”

Dated: 15th January, 2020

Venue: CIIF, Manimajra

The basic objective behind this visit was to understand the concept of Incubation centres, to see the facilities provided by such centres and to know their model of operations.

Students had an Interactive session with Mr. Vinish who works to provide support to budding startups. The students had an opportunity for one to one discussion with many of the entrepreneurs. There is a ventureCafe which is outsourced to third party. Education qualification is not the main



criteria for admission of the entrepreneurs in the centre. They look at the dedication, the concept and the ability of the entrepreneur to execute the idea for selection. CIIF manager asserts how incubator provides full support and highlighted that the only critical point in starting such centre would be to develop a network of Mentors who can devote time for the potential entrepreneurs. The visit gave useful insights to the team about a setup and a system need to start incubation centre.

CII North Region Startup Conclave

Dated: 23rd January, 2020

Venue: Chandigarh

The Confederation of Indian Industry (CII) organized its Startup Conclave in Chandigarh at its Northern Region Headquarter in Sector 31A. Through this, CII is attempted to create an open forum to facilitate discussions on various nuances of the Indian startup ecosystem. CII has culminated in multiple avenues of learning, incubation and acceleration for startups in all the sectors.



The event was attended by policymakers, leaders from industry, academia, funding agencies, successful startups and budding entrepreneurs. Some of the eminent speakers at the event were Infosys's cofounder Kris Gopalakrishnan, Nectar Lifesciences's CEO Dr Dinesh Dua, GenNext Capital's cofounder and CEO Inder Kalra, and many more. More than 25 enterprising students from Chitkara University got an exposure of startup ecosystem practised by various states.

Exhibition cum Industry-Academia Meet

Dated: 24th January, 2020

Venue: Chitkara University

The 3 students from CUHP E-Cell put forth new ideas in order to sprout up innovations towards waste management and #SocialEntrepreneurship. First prize was bagged by Pranav Goyal who represented SPM Bioplastic which is about making degradable plastics from green waste.

The exhibition cum industry-academia meet was organized as part of introducing MBA course on Waste Management and Social Entrepreneurship in association with Mahatma Gandhi National Council of Rural Education, a unit of #MHRD. The exhibitors and participants included experts from Waste Management Technology, Equipment Manufacturers and Suppliers, Regulatory Bodies, Utilities, Municipal Corporations, Pollution Control Board, Water and Sanitation Departments, Environmental Bodies, NGT and related personnel.



The participants showcased working models of #waste, #sanitation, and #hygiene management followed in their respective state or organization, specifically highlighting the employment and entrepreneurial opportunities.

Third Roadshow on NIDHI Accelerator Program

Dated: 27th January, 2020

Venue: Chitkara University

NIDHI Accelerator Program at length and motivated the young entrepreneurs and researchers to come forward and work in the field related to the aforementioned themes. Dr. Archana Mantri Pro-VC Chitkara University, the Chief Guest covered the theme of the roadshow well and gave a prospective and an inspirational talk to budding Entrepreneurs / Startups/Researchers There were 62 youngsters/ entrepreneurs/ startups , who participated in the event and showed lot of interest in addressing issues related to Agriculture /Farmers/Food Security. Mr. Sumeer Walia, Director Chitkara University Centre for Entrepreneurship Education & Development, Chitkara University and Mr. @Mrigank Singh CEO Atal Incubation Centre at Indian School of Business shared their experiences as TBI Incubator Heads with the audience. Two Startups Amongst the Audience Mr. Pranav Goyal Founder-Bioplatsics and Rahul Niyins, Cofounder-Bhugoal shared their journey as a startup.



CUHP Startups at Asia Inc. 500 NexGen Summit2020

Dated: 6th February, 2020

Venue: Chitkara University

NSEP – Unlock and hone the entrepreneur in you!

Asia Inc. 500's NSEP is a flagship program conceptualized to enable students to identify and nurture their entrepreneurial and leadership skills. It brings together young college students with key resources and networks to unleash their entrepreneurial spirit NSEP supports student entrepreneurs with much-needed mentorship, recognition, and connections to take their ideas to the next level of success. It aims to empower young minds to be the next change-makers. Ms. Abha Sharma Mentor CEED, along with more than 40 E-cell students witnessed the grant event and aspires to kickstart their journey to become future change-makers and business leaders.



CUHP Startups at IFF (India Fund Fest)

Dated: 7th February, 2020

Venue: Hyatt Regency Chandigarh

The first ever regional offering aimed exclusively at finding and funding talented Startups from the [North-East India Fund Fest](#), which is being hailed as the next hub for the startup revolution. The event provided a platform ensuring to get connected with the investor that is right for your business. The fund fest platform facilitates interactions directly with investors who come with diverse investment thesis. Faculty members Dr. Sita Ram (Applied Sciences), Dr. Lipika (ECE), Dr. Neeraj (ECE), Dr. Sartajveer (ECE), Dr. Abhishek (Civil) witnessed the grant fest for Startups who showcased their work, product or technology and pitch for funding to funders / investors.



The platform curated startup opportunities from across the country and presented them to investors after intensive coaching. The philosophy was to give budding entrepreneurs opportunity to get on path of accelerated funding. Over 28 companies from twenty-five cities made it to finale.

Conference on Strategy for India @ 75 attended by CUHP Mentors

Date: 14th February 2020

Venue: CII Northern Region Headquarters, Chandigarh

On successfully completing 125 years of service, CII organized a conference on the theme “Strategy for India @ 75” at CII Northern Region Headquarters, Chandigarh. Mr. Sanjay Baniwal (DGP, Chandigarh), Lt. Gen GS Sangha (Chief of Staff, Headquarters Western Command) and Mr. Jai Prakash Dalal (Minister for Agriculture & farmer welfare, Law & Legislature, Government of Haryana) were the chief guests in the conference. The conference was an attempt to bring innovation, technology, enterprises and management together at the core of policy formulation and implementation. The guests suggested that there is a need to design our initiatives with a special focus on youth and it is imperative that the young generation understands what to believe in and how to set out for it. Also, a panel discussion was organized in order to understand the expectations of the youth as well as the role that they aspire to play in making India of their dreams.



CEED Mentor Speaks at MASH Mixer on Women Entrepreneurship

Dated: 28th February, 2020

Venue: Explore Hub

MASH Mixer on Women Entrepreneurship hosted at Amritsar where Dr. Neeraj joined conversation “**Decoding Women Entrepreneurship**” Over 45 participants from diverse backgrounds and organizations, the initiative brought the community in Amritsar together & witnessed collaborative learnings among the participants. The positive response from our participating community highlights the impact of the knowledge & wisdom you shared, which will definitely help us in our journey to make a difference. We hope to continue this relationship we’ve formed for all the future endeavors which we shall embark on together.



Upcoming Hakcathons Awareness Bootcamp for Students

Dated: 3rd March, 2020

Venue: Explore Hub

The aim of this bootcamp was to help the students to develop entrepreneurial mind set, learn enterprise initiation and development skills. The specific objective of this bootcamp was to recognize the innate entrepreneurial competences within them. Also details by Ms. Abha Sharma were shared on how to assess opportunities in the Himachal Region so that they can aim for the upcoming Smart Himachal Hackathon. Students were made to understand the role that entrepreneur can play in enhancing their lives and lives of others. The session was participatory and practical knowledge oriented. Various Case-studies, audio visuals, simulation exercise, and group discussion were conducted during the 2hour session.



FEP (Faculty Enablement Program)

Dated: 14th March, 2020

Venue: Audi 104

The objective of program was to create awareness among faculty members of the university about various facts of entrepreneurship as an alternative career option and also to highlight the merits of pursuing such an option. Director CEED Mr. Sumeer Walia was the keynote speaker for the session. Further stating the core objectives of the E-Cell such as to build the in ate capability of young students, to bring about Awareness regarding Entrepreneurial life right from grass root levels and also offer multitude of suggestions for them to start off their career. Total 105 faculty members were enrolled for the session. These words made an impact on the listeners enabling them to ask questions and interact with him. Over all it was an effectual and informative session for faculty.



Approval of Grant from Himachal Pradesh Government

Chitkara University, Himachal Pradesh; has been selected as an official Incubator, under the CM Startup Scheme by the Government of Himachal Pradesh. Chitkara University, Himachal Pradesh; will be getting a grant of Rs 60 lakh to utilise for incubation development at the HP campus.

Government of Himachal Pradesh launched its Startup policy in November 2016 called “Chief Minister’s Startup or Innovation Projects or New Industries Scheme”. The vision of the policy is to turn the educated youth from job seekers to job creator and in order to give support to the ‘Startup’ and Innovation Projects in the State. Nodal department for Startup is Department of Industries and Nodal officer for Startup is Principal Secretary (Industries).



Dr. Varinder S Kanwar, Vice-Chancellor, CUHP; signed the Memorandum of Understanding with Director Industries at Shimla, on behalf of Chitkara University & Centre for Entrepreneurship, on September 28, 2019.

Startups Incubated Under Startup Himachal Scheme

Adversity

About:

Advercity Private Limited is an advertisement company that focuses on Space Management. Our company mainly focuses offline advertisements. It aims provide the dissemination of information concerning an idea, product or service to induce action in accordance with the intent of the advertiser. Also aims to create engaging ads which is enough to reach the competent buyers Advertising campaigns will be developed and administered by the cream of the crop in the advertising industry. They work to have an immediate impact on potential buyers.



Founder: Saurabh Sharma
Batch: CSE-2017



Co-Founder: Nandini Shahi
Batch: CSE-2018

Year of Foundation: April 2019

Sector: Advertisement

Stage: Revenue Stage

reaLancers

About:

The aim of reaLancers is to build a platform will be helpful for providing jobs to unemployed people who are skilled in stitching, labor work etc. The idea majorly focuses on rural customers where they will give skill trainings and provide them with job opportunity. The team is already in talks with contactors to provide labour,

reaLancers

Fulfilling the needs of the people, by the people for the people

Founder name: Sahdev Kharb

Batch: Virtusa-2019

Year of Foundation: September 2019

Sector: Labour Mangement

Stage: Development



SPM Bioplastics

About:

SPM Bioplastic Private Limited is a bioplastic manufacturing company that produces 100% biodegradable and environmentally friendly products from starch rich green waste. SPM Bioplastic's products are bio-gubbins, which are non-polluting and non-toxic to the environment, animals and plants. SPM Bioplastic provides a sustainable solution to the menace caused by conventional plastics and encourages citizens of India to use environment friendly products. SPM Bioplastic is recognised by Government of India and Himachal Pradesh. The startup has received many awards and appreciation from Ministry of commerce State and industries, Hult Prize and CIIE.



Founder name: Pranav Goyal
Batch: CSE-2018
Year of Foundation: October 2018
Sector: Bioplastics
Stage: Product Development



AlephAI

About:

While data has become the fuel that drives businesses, smart insights and intelligently optimized operations are going to be the mainstay for companies to rise and shine. With the AI buzz sweeping the world off its feet, AlephAI offers to create niche AI-ML backed solutions that will power up your business and the everyday decisions that propel your RoI. Packed with top-of-the line prowess in the domain and passion to build frameworks that change the way you conduct your business, AlephAI is here to be your Data Science Partner.



Chief Data Scientist: Neeraj Kumar Rajput

Founder: Dr Anjuman Arora Ahuja

Year of Foundation: November 2019
Sector: AI Artificial Intelligence

CUHP Startups Featured in Times of India and ZEE News And Various Platforms

Taking forward the spirit & vision of our Hon'ble PM Shri Narendra Modi and joining him in the drive to eliminate single-use plastic, a Chitkara University, Himachal Pradesh campus; student Pranav Goyal (B.Tech, 2nd Year), has invented a purely biodegradable and environment-friendly substitute for the purpose. As per his invention, starch extracted from potato waste is used to make pallets which can be further used to manufacture biodegradable products like straw, spoons, forks, plates, carry bags and water bottles.

Pranav Goyal worked along with his mentors – Ms. Abha Sharma, CEED & Mr. Sumeer Walia, Director-CEED (Centre for Entrepreneurship), Chitkara University; The invention has been developed under the company SPM Bioplastic, which is incubated at Explore Hub, Chitkara University, Himachal Pradesh. Centre for Entrepreneurship Education & Development (CEED) encourages and motivates students to be part of the start-up ecosystem and promotes the ideas. The Incubator has successfully incubated over 100 start-ups and continues to make dreams a reality.

Student invents single-use plastic substitute

Barinderjit. Saluja
@timesgroup.com

Mohali: Amid the dire need to come up with a substitute for single-use plastic products, a BTech student of Chitkara University, Baddi campus, has invented a product which he claims can serve the purpose. As per the invention, starch extracted from potato waste is used to make pallets which can be further used to manufacture items like straw, spoons, forks, plates, carry bags and water bottles.

A second year BTech student **Pranav Goyal**, along with his mentor **Abha Sharma**, assi-



stant professor at Chitkara University, brought the prototype of his invention, showcasing the material which can be moulded into a spoon or a fork or party plate. He claimed that it is purely biodegradable and environment friendly.

Pranav said, "We use starch

extracted from potato waste centrifuging it to form another material which can be used as raw material in place of plastic products to manufacture carry bags, water bottles, spoons, straws, forks, plates and glasses. It is 100% biodegradable product and environment friendly. We make pallets of the starch to feed it into extruder to mould it into different shapes of products replacing the plastic products. With this, we give an alternative for single-use plastic products which has been banned by government recently."

Pranav said his elder sister **Saloni Goyal** owns a bioplastic

manufacturing company and is a co-founder of the same. The invention has been developed under the company **SPM Bioplastic**, which is incubated at **Explore Hub**, Chitkara University, Himachal Pradesh, said **Abha**.

Chitkara University Centre for Entrepreneurship Education & Development (CEED) encourages and motivates students to be part of start-up ecosystem which is headed by director **Sumeer Walia**.

The aim is to replace the petroleum-based plastic products which is one of the major causes of polluting the environment.

The idea with its team has been featured at numerous platforms like Times of India, an interview on Zee News, India Today, Biofuel, Business standard, The Hans India, Silicon India, The Week, Pti News, Business Today and many more.

ABOUT E-CELL CUHP

AN INITIATIVE TO BUILD START-UP ECOSYSTEM

Entrepreneurship cell, Chitkara University Himachal Pradesh aims at fostering the problem-solving abilities and spirit of start-up ecosystem by providing the students with a platform which gives them number of innovative opportunities to develop the Entrepreneur in them. Our entrepreneurship cell provides professional mentorships and other employer opportunities for building an ecosystem for start-ups.



First Row (from Left): Karan Telang, Shraddha Thakur, Sumeer Walia and Saurabh Sharma
Second Row (from Left): Pranav Goyal, Prateek Chaudhary, Abha Sharma, Nandini, Anshul Arora and Gaurav

Team and Key Roles

First Row: (From Left)

Name	Designation	Role
------	-------------	------

Karan Telang CSE-3 rd Year	Executive Member	Photography & Web Designer
Shraddha Thakur CSE-3 rd Year	President, E-Cell	Execution & Administration
Mr. Sumeer Walia	Director CEED	Industry connect and Sponsorships
Saurabh Sharma CSE-3 rd Year	Secretary	Digital Marketing & online Promotions

Second Row: (From Left)

Name	Designation	Role
Pranav Goyal CSE-2 nd Year	Intern & Executive Member	Accounts & Public Relations
Prateek Chodhary CSE-2 nd Year	Executive Member	IT & offline Promotions
Ms. Abha Sharma	Sr. Mentor CEED	Head of E-CELL CUHP
Nandini Shahi CSE-2 nd Year	Executive Member	Event Coordinator
Anshul Arora C SE-3 rd Year	Vice President	Campus Promotions & Student Connect
Gaurav Kaushik CSE-3 rd Year	Executive Member	IT/AV/Stage setup

Architecture of E-Cell, Chitkara University

- Functioning of E-Cell in Chitkara University is governed by CEED Board comprising Mr Sumeer Walia, Director-CEED, Ms. Abha Sharma, Senior Mentor, Assistant Professor-CEED & Mr. Neeraj Kumar, Mentor, Assistant Professor. CEED Board will guide the club in executing all its activities as per the guideline given by the University.
- The core team of E-cell consists of 8 student Coordinators & 12 student executives.
- All the E-Cell members, apart from the above mentioned, will remain as general Cell members and help the Core Team in executing various key events of the E-Cell.
- The E-Cell core team will be formed for a period of 6 months (one semester).

Objectives of E-Cell

- Aim is to providing various services including information on all aspect of enterprise building to budding entrepreneurs.

- To create Entrepreneurial culture in the University and to promote the E-Cell.
- To foster better linkages between the University, Industries and R&D institutions in the region and other related organizations engaged in promoting entrepreneurship.
- To self-sustain and raise sponsorships.
- To catalyze and promote development of knowledge-based enterprises and promote employment opportunities in the innovative areas.
- Bootcamps and promotional events to be organized on a regular basis to add more people to the E-Cell family.
- Organize guest lectures, Workshops, Seminars, etc. for promotion and growth of entrepreneurial minds.
- To arrange visits to industries and incubators for prospective entrepreneurs.

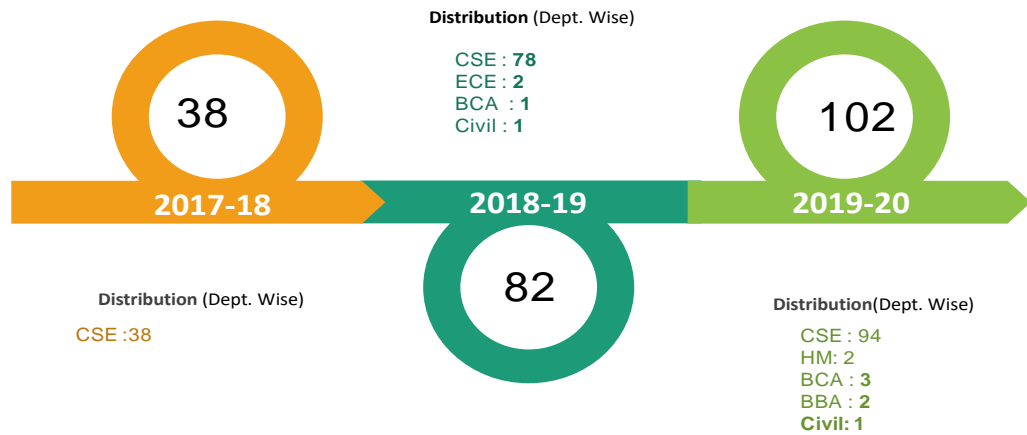
Benefits for Students with E-Cell Registrations

- Each student member of the Cell irrespective of their role will get huge exposure through efforts at E-Cell which will add to their skill, aptitude and confidence.
- Student members can learn about various innovation and entrepreneurship processes at 1st hand and get real life exposure by implementing them at college level.
- Student Cell members will be given preference while choosing students for various University teams for entrepreneurial activities and other teams to represent university efforts at different stages.
- To develop leadership qualities and management abilities.
- Get to know about every intervention in innovation ecosystems nationally and abroad which will widen then vision for young students.
- While working closely in a team each student will develop next generation skill sets like co-creation, adaptability, institution building and many more.

CUHP Membership Overview

E-CELL MEMBERSHIP : 222

voluntary membership(paid) of E-CELL (Startup club) of CEED ,Chitkara University :
has its own charter & calendar of events

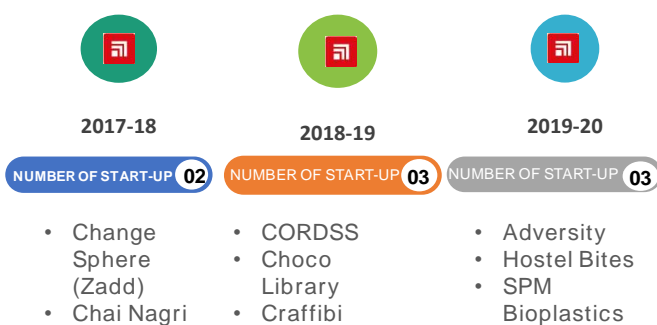


The roster shows the journey of our growing E-cell family through the years. Core Team members to hold meeting every week to update the team on the progress of the E-cell membership and plan new activities and events that drives the energy of E-cell.

Funding Support Given So Far

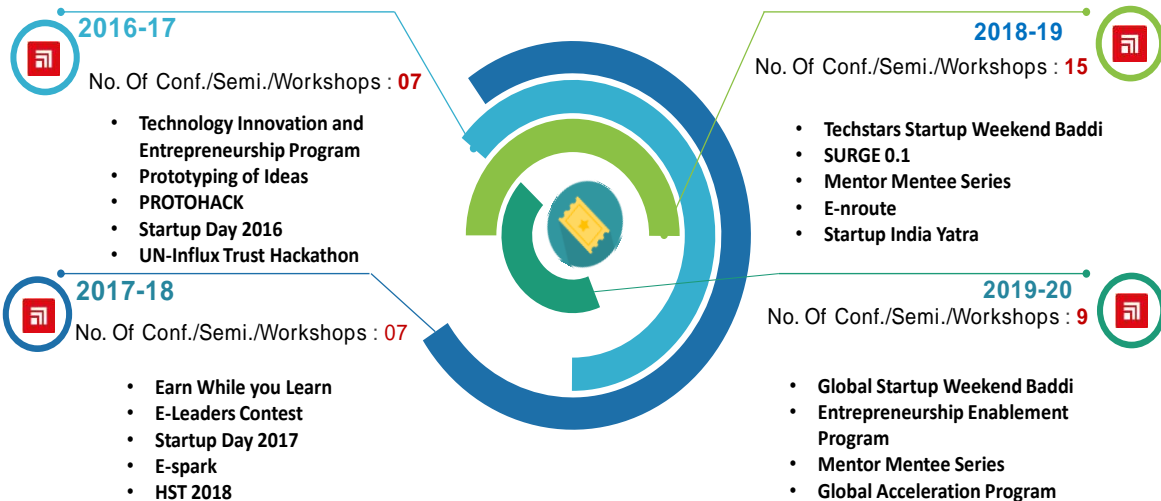
SEED SUPPORT FOR STUDENT STARTUPS

THIS SUPPORT HAS BEEN GIVEN AS A GRANT OR "STARTUP DAY" WINNING PRIZES



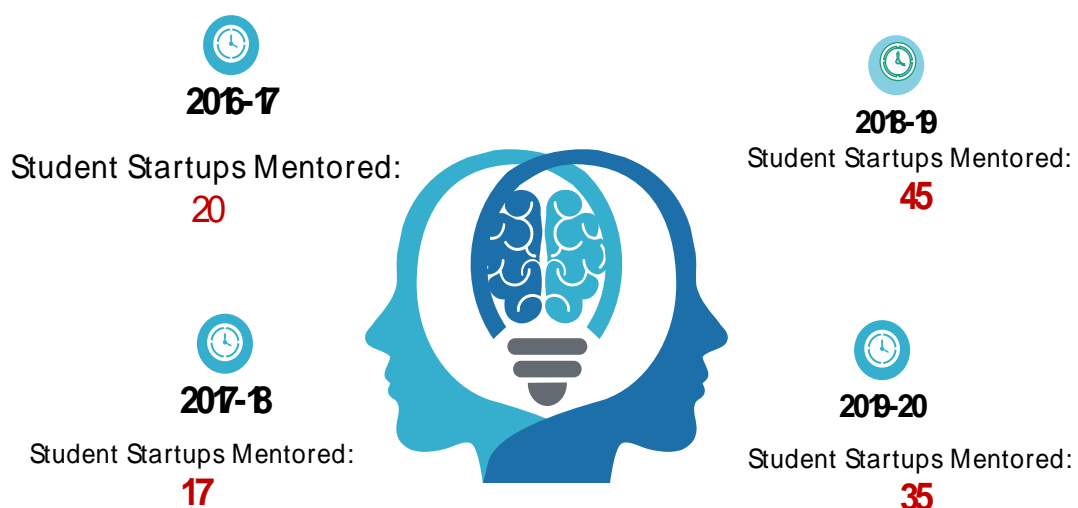
Impactful and Our Signature Events

HIGH IMPACT PROGRAMS : CONFERENCES / SEMINARS /WORKSHOP



Mentorship to Student Startups

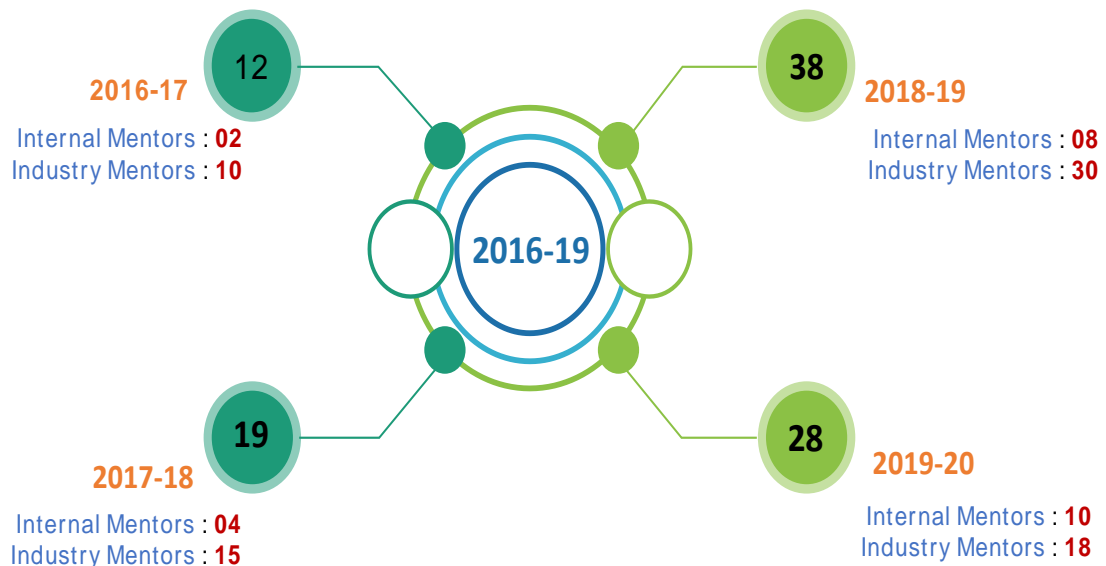
STUDENT STARTUPS MENTORED



Focus on Industry Network

INDUSTRY MENTOR CONNECT

TOTAL MENTORS : **97**



Programs That Make a Difference

WE HAVE DONE ..

70+

Idea validation workshops, seminars, conferences, demo days, mentor talks, events and training programs

7500+

Students Sensitized & engaged

8+

Industry MOU's & Govt. Partners

50+

Industry Mentors Network

10+

Startups got Funding

200+

E-Cell Members

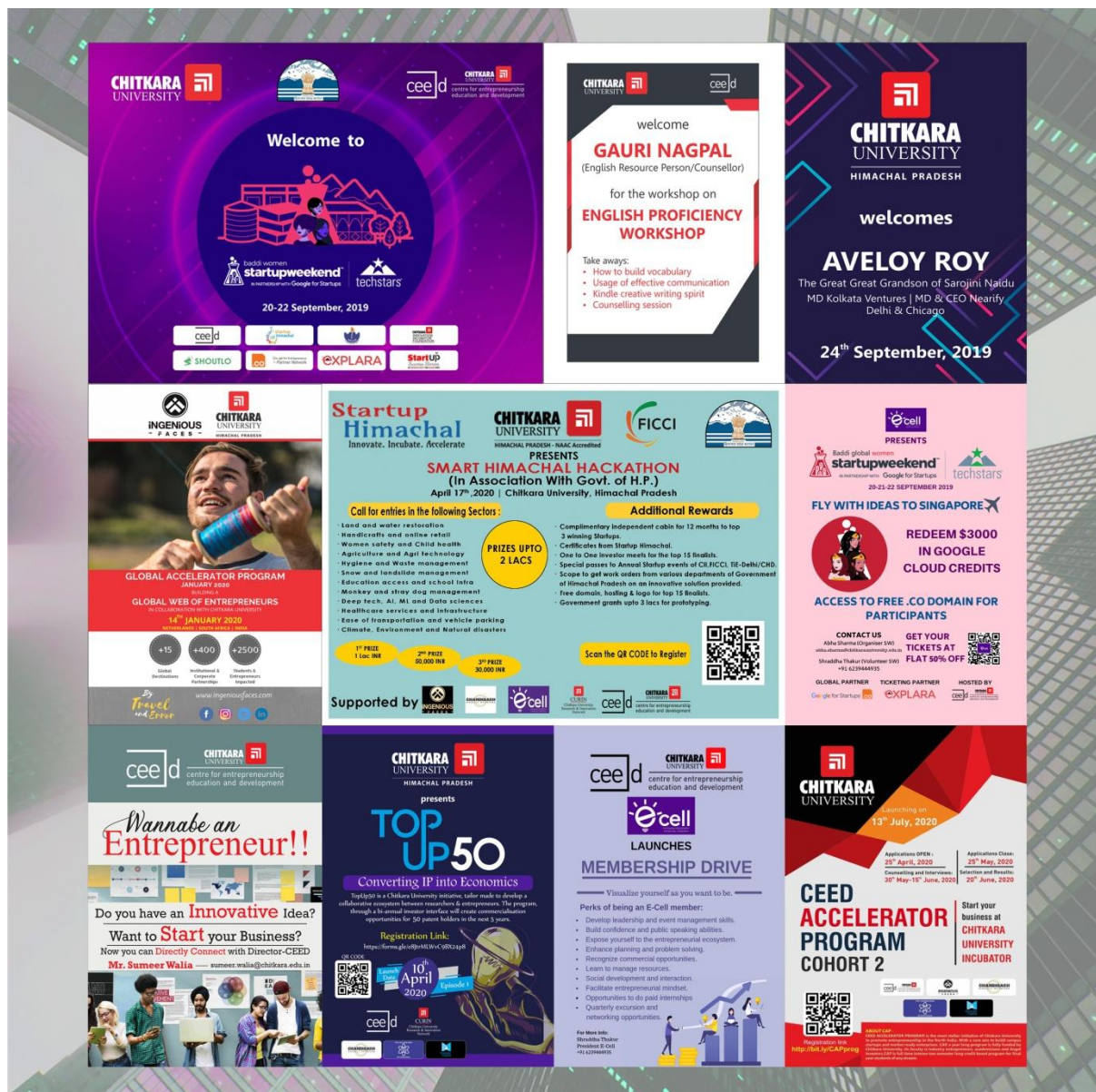
cee d

CHITKARA
UNIVERSITY

centre for entrepreneurship
education and development

51 | Page

Glimpses of E-Cell CUHP



CUHP Startups in News

Discovered At Inc42 BIGShift : Chandigarh's Zadd Bikes Solves Hyperlocal Connectivity With High-Tech Electric Bikes



The Asia Pacific region is estimated to be the largest electric bike market by 2025. While startups such as Yulu and Bounce are the dominants of the space, Inc42 came across an early-startup disrupting the space with its innovations. Zadd Bikes currently has over 200 pre-ordered bikes and is in the process of its production. While on our six-city tour of the Tier 2 startup ecosystem with BIGShift, we discovered several promising startups. This series will cover some of the most innovative startups. The first profile is of Zadd Bikes which has taken Chandigarh a notch up on the EV race in India.

With the rising problems of congestion and pollution, the push towards electric vehicles (EV) in India has seen massive encouragement from government, industry and startups. According to a March 2019 report by MarketsAndMarkets, by 2025 the Asia Pacific region will be the largest electric bike market. This is largely thanks to the initiatives of the various governments in making the right market conditions for the manufacturing and adoption of EVs.

In India, government schemes such as Faster Adoption And Manufacturing of Hybrid and Electric Vehicles (FAME) have not only promised funding to boost EV infrastructure but is making adoption easier with plenty of incentives. The government has allocated INR 10k Cr for a period of 3 years commencing from April 1 this year for phase II of FAME.

While charging and battery management are the two biggest concerns for EV startups at this moment, electric vehicles are solving many issues on the ground, including a crucial issue that often gets overlooked in the urban context.

Despite great public transport infrastructure, many Indian cities suffer from the issue of last-mile connectivity, which is used to get from home or office to the point of public transit and back. Startups such as Bengaluru's Yulu and Bounce are looking to change that and Chandigarh-based Zadd Bikes is proving that last-mile is a problem in Tier 2 cities as well.

Zadd Bikes stood out among the many startups that Inc42 discovered on the recent BIGShift tour. The Chandigarh-based mobility startup impressed the jury with its business model, vision and emerged as winners of the BIGShift Pitch for the city. While the startup is still at a very nascent stage, it has earned recognition in the local ecosystem.

Its key tech solution is the custom electronic motherboard for the bikes that has the ability to receive over-the-air upgrades like smartphones or computers, which will keep it efficient, bug-free and updated. Zadd's connected biking platform, comprising hardware and software, gives the rider data readings from the bike thanks to IoT devices and sensors. This also gives bike riders managers and riders access to features such as bike system info, remote diagnosis, remote blocking of the system, anti-theft systems, infotainment modules, GPS navigation and more.

<https://m.dailyhunt.in/news/india/english/inc42-paper-inc42-discovered-at-inc42-bigshift-chandigarh-s-zadd-bikes-solves-hyperlocal-connectivity-with-high-tech-electric-bikes-news-146594064>

वर्किंग स्टार्टअप्स को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली

Startups

दुबई के स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली। स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली। स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली।

स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली। स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली। स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली।

स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली। स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली। स्टार्टअप को यूनीक आइडिया पर 50 लाख से लेकर 1 करोड़ की फंडिंग मिली।

देश प्यार

चिकित्का यूनिवर्सिटी ने देश के सबसे बड़े स्टार्ट अप फंडिंग इवेंट्स फंडेड फेस्ट 2020 का किया आयोजन



चिकित्का यूनिवर्सिटी ने देश के सबसे बड़े स्टार्ट अप फंडिंग इवेंट्स फंडेड फेस्ट 2020 का किया आयोजन। चिकित्का यूनिवर्सिटी ने देश के सबसे बड़े स्टार्ट अप फंडिंग इवेंट्स फंडेड फेस्ट 2020 का किया आयोजन। चिकित्का यूनिवर्सिटी ने देश के सबसे बड़े स्टार्ट अप फंडिंग इवेंट्स फंडेड फेस्ट 2020 का किया आयोजन।

चिकित्का यूनिवर्सिटी ने देश के सबसे बड़े स्टार्ट अप फंडिंग इवेंट्स फंडेड फेस्ट 2020 का किया आयोजन। चिकित्का यूनिवर्सिटी ने देश के सबसे बड़े स्टार्ट अप फंडिंग इवेंट्स फंडेड फेस्ट 2020 का किया आयोजन। चिकित्का यूनिवर्सिटी ने देश के सबसे बड़े स्टार्ट अप फंडिंग इवेंट्स फंडेड फेस्ट 2020 का किया आयोजन।

Chitkara holds Fund Fest

CHANDIGARH : Chitkara University on Friday organised the finale of the fourth edition of 'India Fund Fest 2020' at a private hotel in the city. On the occasion, 28 finalists pitched to a group of 14 investors who offered various deals to the start-ups. The event was supported by Chandigarh Angels Network in collaboration with Natio Cultus Consultancy Private Limited, Hyderabad. The companies were selected from 20,000 applicants. The selection was done by a jury and through a proprietary process.



Start-ups raise ₹6 crore at finale

FUNDING FEST 2020

DIVYANSHI GAUR

CHANDIGARH, FEBRUARY 7 Nearly half a dozen start-ups from Chandigarh and other parts of the country raised around Rs 6 crore on the spot at the finale of the fourth edition of India Fund Fest 2020 held here today.

This is for the first time that India Fund Fest shifted out of Bengaluru and was held in Chandigarh. The fund-raising event was organised following the success of the first three editions in 2017, 2018 and 2019. A total of 28 companies from 20 cities made it to the finale and pitched to a panel of 14 investors from eight cities of India. There were over five companies from the Chandigarh and Punjab region which participated in the event.

The companies that raised funds included Matchstaltz Solutions Pvt Ltd, a Karnataka-based start-up, which provides solutions for Industrial Internet of Things (IIoT) and RidezNow, which provides rental convenience service to the hostel students of Chitkara University.

"This is a great opportunity for the region to have access to start-up capital with so many investors coming over from all over India," Dr Madhu Chitkara, Vice Chancellor, Chitkara University, said.

चिकित्का यूनिवर्सिटी वॉलें सटारट अप फंडिंग इवेंट्स इंडिया स्मार्टर अपोजिज

चिकित्का यूनिवर्सिटी वॉलें सटारट अप फंडिंग इवेंट्स इंडिया स्मार्टर अपोजिज। चिकित्का यूनिवर्सिटी वॉलें सटारट अप फंडिंग इवेंट्स इंडिया स्मार्टर अपोजिज। चिकित्का यूनिवर्सिटी वॉलें सटारट अप फंडिंग इवेंट्स इंडिया स्मार्टर अपोजिज।

चिकित्का यूनिवर्सिटी वॉलें सटारट अप फंडिंग इवेंट्स इंडिया स्मार्टर अपोजिज। चिकित्का यूनिवर्सिटी वॉलें सटारट अप फंडिंग इवेंट्स इंडिया स्मार्टर अपोजिज। चिकित्का यूनिवर्सिटी वॉलें सटारट अप फंडिंग इवेंट्स इंडिया स्मार्टर अपोजिज।

Student invents single-use plastic substitute

Barforjeji, Sada

Mohali: A single-use plastic substitute has been invented by a student of Chitkara University. The material which can be used as a substitute for plastic products to manufacture carry bags, bottles, spoons, straws, forks, plant-based glasses, etc. is 100% biodegradable product and environment-friendly. The material which can be moulded into different shapes of products replacing the plastic products. With this, we give an alternative for single-use plastic products which has been banned by government recently.

Pranav said his elder sister Sakshi Goyal owns a bioplastic manufacturing company and is also founder of the 'Bio Plastic' venture. He has been developing the material which can be used as a substitute for plastic products to manufacture carry bags, bottles, spoons, straws, forks, plant-based glasses, etc. is 100% biodegradable product and environment-friendly. The material which can be moulded into different shapes of products replacing the plastic products. With this, we give an alternative for single-use plastic products which has been banned by government recently.

Pranav said his elder sister Sakshi Goyal owns a bioplastic manufacturing company and is also founder of the 'Bio Plastic' venture. He has been developing the material which can be used as a substitute for plastic products to manufacture carry bags, bottles, spoons, straws, forks, plant-based glasses, etc. is 100% biodegradable product and environment-friendly. The material which can be moulded into different shapes of products replacing the plastic products. With this, we give an alternative for single-use plastic products which has been banned by government recently.

Chitkara University, HP

Patents/IPR

At

Glance

Session: 2019-2020

Supported By:



MEET THE TEAM



Prof (Dr) Varinder S Kanwar

Prof (Dr) Varinder S Kanwar is an eminent academician and a pioneer of innovation with more than 25 years of Research; Teaching and Administrative experience. He is a fellow of Institution of Engineer and an active member of various societies like ASCE, Indian Concrete Institute [ICI], Institution of Engineers and Punjab Science Congress. He authored 4 books, 2 book chapters, edited 10 conference proceedings and has contributed several research papers in National and International Journals and Conferences. He is continually guiding M.E. and Ph.D. students in Civil Engineering. As a fervent innovator he has filed 6 patents, provides consultancy on use of sludge generated from industry in the construction and is working on 5 Government funded research projects worth 10 Million INR in the area of Environmental Conservation, Socio-Economic Upliftment of Rural Society, Health Monitoring of Structures and Alternate Construction Materials. As a true collaborator he is actively participating in joint research activities carried out by Chitkara University, Glasgow Caledonian University UK and also has an ongoing joint venture for research with Edith Cowan University and Federal University in Australia.



Dr. Lipika Gupta

Dr. Lipika Gupta is an Educationist and Researcher with over 18 years of experience. She is heading Department of Electronics & Communication Engineering at Chitkara University, Himachal Pradesh. She is the contact authority at Office of Patent Facilitation & Licensing Consultancy (OPFLC), CURIN at Himachal Campus. She is the nodal officer for DST sponsored Intellectual Property Rights (IPR) Cell set up by Himachal Pradesh Patent Information Center (HPPIC) at Chitkara University, HP. She is responsible to take note and recognize the novel ideas & inventions of faculty, researchers & students and protect the promising ideas with IP. She motivates and sensitizes the young brains to think innovation by conducting seminars, contests and workshops. She has published more than twenty five research papers in reputed journals and conferences and has filed one patent. Her areas of interest include Digital Signal Processing, Microelectronics, Analog design and Engineering Education.



Dr. Neeraj Kumar

Dr. Neeraj Kumar is an Entrepreneurship Enthusiast and is in the entrepreneurship ecosystem for more than 4 years. Currently, he is heading the Centre for Entrepreneurship Education and Development (CEED), Chitkara University, Himachal Pradesh which is registered under Start-up Himachal scheme of Government of Himachal Pradesh. He is taking care of youth awareness camps, grants, building entrepreneurship ecosystem and he is also taking forward the IPR towards commercialization. Along with this, he is also working as an Assistant Professor in the department of Electronics and Communication Engineering. He has filed six patents and has published more than twenty research papers in reputed journals and conferences. He is a life member of ISTE (Indian Society of Technical Education). He was awarded “Best Teacher Award” by ISTE in 2016. His areas of interest include Digital Image Processing, Micro-controllers and Entrepreneurship. He is having more than 10 years of teaching and research experience. He is currently guiding two Ph.D. students in Electronics and Communication Engineering.



Mr. Sumeer Walia

Mr. Sumeer Walia is the Director, Centre for Entrepreneurship Education and Development, Chitkara University. He is having 20 years of experience in India and abroad. He has successfully mentored over 100 startups in North India. He was formally the executive Director of TIE Chandigarh, a globally renowned nonprofit organization based out of Silicon Valley for entrepreneurship development.

A Quick Look At The OPFLC

The objective of **Office of Patent Facilitation & Licensing Consultancy (OPFLC)** under Chitkara University Research & Innovation Network (CURIN) to protect the novel ideas & inventions of faculty researchers & students. Any student doing research work during graduation, Master's or doctoral studies and faculty doing research or working on externally funded projects can use the services of OPFLC. Any individual with innovative ideas, not necessarily based on research or relating to the discipline can file a patent if the idea is Novel, Innovative and has industrial application. A conducive environment is provided to the talented brains with an easy patent policy that is very friendly for the inventors wherein OPFLC provides full time patent attorney and drives a lots of IPR activities to promote innovation.

An **“EASY PATENT POLICY”** has been adopted by the University, under which

- All expenses of patenting in India are completely borne by the University.
- Inventors to enjoy full freedom to license out the inventions or use them to develop products as 90% commercial rights remains with the innovators/inventors.
- To provide professional assistance and expert guidance pertaining to patent filing an Office of Patent Facilitation & Licensing Consultancy (OPFLC) is set-up that facilitates the services of qualified patent attorneys to the inventors.
- Patent Attorney periodically visits the university campus to meet students and faculty inventors in one to one meetings. They also conduct sensitization seminars for the students to spread awareness about IPR and participate in many other IPR activities being driven by OPFLC.

❖ **In 2017 Himachal Pradesh Patent Information Center (HPPIC) has set-up a DST sponsored IPR Cell at Chitkara University, Himachal Pradesh and has supported with the grant of INR 40,000 per year to drive IPR activities in the campus.**

Patents Filed in 2019-20

S.No.	Name of The Inventor	Invention Title	Patent Filing Number	Date of Filing
1	Abhishek Garg, Manisha Duggal	The self-service shopping cart	201911002689	22/01/2019
2	Pintu Kumar, Manik Sharma, Ajay C Rajan	An apparatus to enhance security of a lock	201911003785	30/01/2019
3	Pintu Kumar, Mandheer Ram, Shubham Taneja	Cap for container	201911005728	13/02/2019
4	Pranav Goyal, Neeraj Kumar, Saloni Goyal	Instant custard mixture composition comprising of jackfruit seed	201911017835	03/5/2019
5	Pranav Goyal, Neeraj Kumar, Saloni Goyal	Process for manufacturing bioplastics from green waste	201911018834	05-10-2019
6	Sartajvir Singh and Deepak Punetha	A gas sensor analyzing apparatus	201911019803	20/5/2019

7	Prakasam C, Sarvanan R	Hydrological flow rate monitoring system	201911038801	25-09-2019
8	Pintu Kumar, Chanpreet Singh	Bottle cap assembly	201911041596	14-10-2019
9	Pintu Kumar, Chanpreet Singh	Cap for bottle	323330-001	05-11-2019
10	Prakasam C, Aravinth R	System for monitoring of shallow landslides	201911048934	28-11-2019
11	Nitish Kumar, Dr. Varinder S. Kanwar	An integrated system and method for water management	202011005032	05-02-2020
12	Abhishek Garg, Ayush Gupta, Dr. Sartajvir Singh	Security system	202011005615	09-02-2020

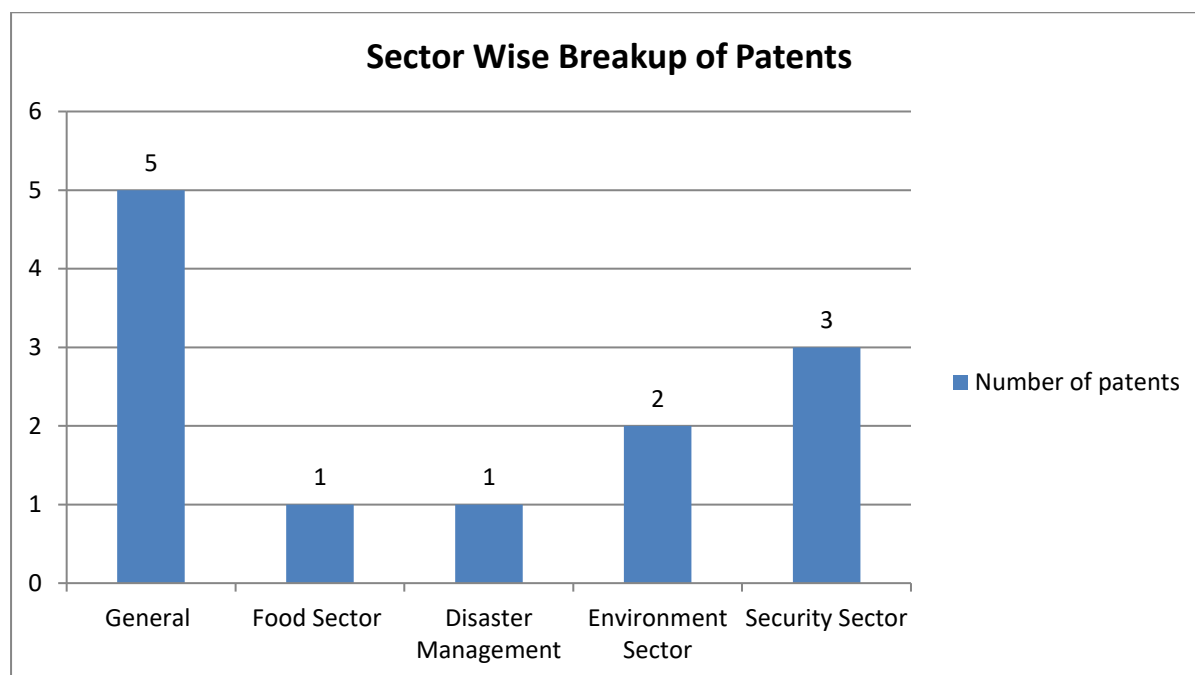


Figure 1: Sector Wise Breakup of Patents filed in 2019-20

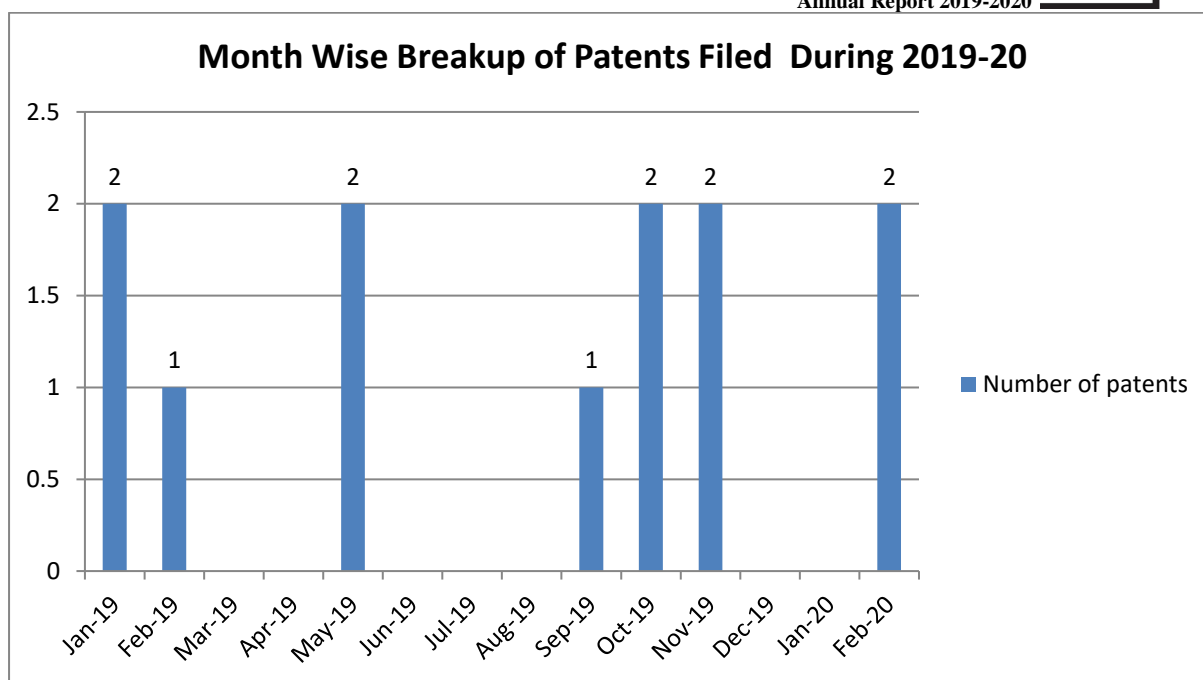


Figure 2: Month Wise Breakup of Patents filed in 2019-20

Patents Published in 2019-20

S.No.	Name of The Inventor	Invention Title	Patent Filing Number	Date of Publication
1	Shubham Goyal, Aniket Bhardwaj	Helmet locking mechanism for two-wheeler	201711015054	11.01.2019
2	Nitin Malhotra, Manik Sharma	Improved electrical switch socket board for enhanced safety	201711034650	07.06.2019
3	Pintu Kumar	An anti-theft system and method for protection of two-wheeler	201711035110	07.06.2019
4	Aniket Bharadwaj, & Shubham Goyal	Rear view mirror for vehicle	Design - 298997	21-06-2019
5	Sahil Goel, Ripudaman Kaushik, Neeraj Kumar, Anshu Sharma	Guiding shoe for blind	201711043039	14.06.2019
6	Sartajvir Singh & Vishakha Sood	Smart scroll wheel for mobile phone	201711043934	05.07.2019
7	Sartajvir Singh & Vishakha Sood	Method of automatic backlight adjustment of mobile screen	201711047427	02.08.2019
8	Sartajvir Singh & Vishakha Sood	Wheel shaped edge scroller for bezel free cell phones and	201811003806	23.08.2019

		method thereof		
9	Yash Mittal	Portable bladeless fan with smart air heating and cooling control	201811002395	09.08.2019
10	Pratyaksh Joshi, Sagar Juneja	Telegraphic communication instrument	Design # 302846	08-02-2019
11	Sagar Juneja, Hitesh Sharma & Arjun Sharma	Wearable system to enable disabled person to transmit voice message and method of use thereof	201811014507	18.10.2019
12	Dr. Varinder S Kanwar, Dc Rana, Abhishek, Sanjay Shukla	Hot mix asphalt modified with toothpaste and paper industry sludge and method of preparation thereof	201811020079	06.12.2019
13	Deepak Punetha, Sartajvir Singh	A gas detecting device	201811022863	20.12.2019
14	Gangesh Kumar, Arun Chaudhary, Sagar Juneja	A weight measuring device	201811027091	24.01.2020
15	Gangesh Kumar, Arun Chaudhary, Sagar Juneja	Weight measuring scoop	Design # 307983	22-02-2019
16	Gangesh Kumar, Arun Chaudhary, Sagar Juneja	Weight measuring scoop	Design # 308571	04-03-2019
17	Gangesh Kumar, Arun Chaudhary, Sagar Juneja	A weight measuring device - patent of addition	201811029917	14.02.2020

Taking IP Towards Commercialization

In order to convert the filed/published and granted patents into economics, Chitkara University, Himachal Pradesh has started a program named **TopUp50**.



CHITKARA UNIVERSITY 
HIMACHAL PRADESH

presents

TOP UP50

Converting IP into Economics

TopUp50 is a Chitkara University initiative, tailor made to develop a collaborative ecosystem between researchers & entrepreneurs. The program, through a bi-annual investor interface will create commercialisation opportunities for 50 patent holders in the next 5 years.

Registration Link:
<https://forms.gle/e8JtrMLWvC9BX24p8>

QR CODE 

Launch Date **10th April 2020** Episode 1



 
CURIN
Chitkara University
Research & Innovation
Network

TopUp50 is a Chitkara University initiative, tailor made to develop a collaborative ecosystem between researchers & entrepreneurs. The program, through a bi-annual investor interface will create commercialization opportunities for 50 patent holders in the next 5 years.

TopUp50 will be a monthly engagement platform in an informal setting where the startup & research committee from CEED & CURIN will interact with up to 3 patent holders to informally discuss the scope, status, potential & commercial aspects of the patent.

The goal is to accelerate the market validation process for various opportunities in tech commercialization, license transfer, new fund raising, company creation & so on.

The TopUp50 committee members are as following:

1. Dr Varinder Kanwar, Vice Chancellor , Chitkara University, Himachal Pradesh
2. Mr Sumeer Walia, Director-CEED, Chitkara University, Himachal Pradesh
3. Dr. Neeraj Kumar, Mentor-CEED, Chitkara University, Himachal Pradesh
4. Dr. Lipika Gupta, Associate Professor, ECED, Chitkara University, Himachal Pradesh
5. Dr. Sandhir Sharma, Professor, MBA Department, Chitkara University, Punjab

Industry Mentors: Mr. Nalin Singh
Managing Director
Natio Cultus Pvt. Ltd, Hyderabad

Hottest Patents Under Commercialization

1. Title of the Patent: Instant custard mixture composition comprising of jackfruit seed

Patent Holders: Pranav Goyal, Dr. Neeraj Kumar, Saloni Goyal

Description of the Patent: The present invention generally relates to a food product, particularly instant custard mixture composition. Specifically, the present invention provides an instant custard mixture composition comprising of jackfruit seed, corn starch, milk powder and sugar powder or icing sugar and process for manufacturing of the instant custard mixture. The instant custard mixture composition comprising of jackfruit seed of the present invention is rich in protein, fiber and minerals like calcium, potassium and iron and is useful as food supplements for people of different age group.

2. Title of the Patent: A weight measuring Device

Patent Holders: Gangesh Kumar, Arun Chaudhary, Sagar Juneja

Description of the Patent: The device not only collects the material but it also does the measurement like quantity of the material and display the quantity on the device itself. A user can get desired quantity of material himself without disturbing the shopkeeper.

3. Title of the Patent: Stationery Box

Patent Holders: Dr. Sitaram Sharma

Description of the Patent: A stationery box is basically a geometry box for school going kids with extra features than existing ones. This stationary box has two floors and two sharpeners at two corners with unique features that it has cabin for collection of dust due to sharpening of pencils. There is a slider in the base which is useful in throwing out the dust. There is button on the slider because of which it becomes easy to open the slider. There are six locks on the cap of the box which helps in gripping the box with cap.

4. Title of the Patent: Pen type Soldering Iron

Patent Holders: Shubham Malhotra, Dr. Lipika Gupta

Description of the Patent: Pen type soldering iron is divided into two segments wire feeding mechanism and heating chamber. A push button is provided which when pressed moves the wire down to the heating chamber that melts the solder wire for soldering. It is very handy and portable.

5. Title of the Patent: Improved electrical switch socket board for enhanced safety

Patent Holders: Nitin Malhotra, Manik Sharma

Description of the Patent: It is a safety and security mechanism for electrical sockets. When switch is ON, a shutter blocks holes of socket and when switch is turned OFF, shutter moves and expose holes of socket. It will ensure that plug can be inserted only when the switch is turned OFF. Plug pins to have grooves that will lock in the shutter when switch is turned ON, it will ensure that plug cannot be pulled out if switch is ON.

6. Title of the Patent: Guiding shoe for blind

Patent Holders: Sahil Goel, Ripudaman Kaushik, Neeraj Kumar, Anshu Sharma

Description of the Patent: Battery and/or solar powered shoes that is fitted with electronic system comprising of proximity sensor, Bluetooth connectivity, camera unit that will help the blind person to navigate. With Bluetooth connectivity the device can interface with smart phone for navigational purposes.

7. Title of the Patent: Bottle Cap Assembly

Patent Holders: Pintu Kumar, Chanpreet Singh

Description of the Patent: The bottle cap assembly allows mixing of substance immediately in beverages before drinking. The assembly includes: a cap body; a plate within the cap body such that there is space between plate and cap for holding substance and a slider.

Incubated Patents

Following two patents have been incubated at the incubation centre at the university premises itself:

1. Process for Manufacturing Bioplastics from Green waste

Patent Holders: Pranav Goyal, Dr. Neeraj Kumar, Saloni Goyal

Description of the Patent: This is a product which is biodegradable plastic made from starch of green waste. Products will be like plastic bags, straw, flexible packaging which will degrade easily in span of 8-9 months and it will help in reducing plastic pollution.

2. Title of the Patent: System for monitoring of shallow landslides

Patent Holders: Prakasam C, Aravindh R

Description of the Patent: The system includes sensors to sense geological parameters and meteorological parameters and a computing unit to extract parametric values associated with the parameters from the sensors. The system configured to generate a set of warning signals to indicate probability, time, impact, strength and extent of occurrence of the landslide in the area.

Thank You
for your
support
See you in
2021