

Entrepreneurship Development Cell

The Entrepreneurship Development Cell of Nagarjuna College of Engineering & Technology was constituted in the year 2021 with the basic objective of transforming students from jobseekers to job creators. The Cell organizes a number of awareness-raising events, including food festivals, workshops, industrial visits, seminars, and interactions with aspiring young entrepreneurs. The goal of these programs is to increase the student community's enthusiasm for entrepreneurship. Members of the advisory board for the ED cell come from a variety of backgrounds, including business, finance, R&D, and government. The cell will organize different activities under the guidance and advice of the board.

Vision

To develop “ignite” as the hub for the best Entrepreneurial and Professional Talent.

Mission

1. To act as an institutional mechanism for providing various services, including information, to budding entrepreneurs.
2. To create an entrepreneurial culture in the institution.
3. To prepare the students to face real world business scenarios.
4. To extend necessary guidance and exposure to the students.
5. To prepare a skilled workforce for taking long/short-term assignments in corporate/industry.

Objectives

1. Organizing Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes.
2. Organizing expert talks
3. Industry Visits to top companies
4. Helping students with Ideation and its execution
5. Guiding and assisting students on various aspects, such as preparing project reports, obtaining project approvals, loans and facilities from agencies and information on various technologies.
6. Conducting skill development training programmes leading to self/wage employment.

7. Providing testing, calibration, quality assurance, design, toolroom, pilot plant and other facilities for entrepreneurs, besides expertise in Intellectual Property rights, Patents search, etc.
8. Outsourcing trained human resources to companies

Benefits for the students

1. Faculty and students establishing a start up as a fulltime effort will be allowed to use the resources of the institute
2. Students and faculty shall be allowed to work on their innovative projects and setting up start-ups or work as intern / part-time in start-ups (incubated in any recognized HEIs/Incubators) while studying / working.
3. Student entrepreneurs shall be given credits for their work on innovative prototypes/Business Models.
4. Student inventors shall be given choice to opt for startup in place of their mini project/ major project, seminars, summer trainings. Interdisciplinary or multidisciplinary areas can initiate a start-up.

Students and Faculties benefitted by ED cell of NCET

1. Re-Batt Energy Solutions Pvt. Ltd. has been incubated in the campus.
2. Through Re-Batt Energy solutions around 15-20 students got intern and hands on experience on the Battery technology.
3. Final year of ECE Students developed Electric buggy in the campus and it has funded by the institute.
4. Through United Nation Development Program (UNDP) program 3 teams were shortlisted for their innovative ideas and won the prize the money of **Rs 1 Lakh** each project.

List of the Students Shortlisted in the UNDP

Sl. No.	Name of the Student	USN	Department	Mentor	Title
01	Akshay T	1NC21EC005	ECE	Dr. Navyarani M Dr. Mahesh Shastri	Natural Fiber based Pressure sensor
02	Bhavyashree	1NC21EC017			
03	Chaitra K	1NC21EC020			
04	Deeksha K N	1NC21EC025			
05	Harsha S K	1NC22EC401	ECE	Dr. Navyarani M Dr. Vinay NA	Multimode Disaster Management Robot or mini Robo Army
06	Vishwajeet M N	1NC22EC411			
07	Gowtham N	1NC21CSE065	CSE	Dr. Gopinath A R	Revolutionizing interaction with a Virtual mouse through hand gesture Recognition

Members of ED Cell



NAGARJUNA
COLLEGE OF ENGINEERING & TECHNOLOGY

(An ISO 9001 - 2008 Certified Institution)
Affiliated to Visvesvaraya Technological University (VTU)
Recognised by Govt. of Karnataka & Approved by A.I.C.T.E. New Delhi

Ref. No. NCET / 264/2022-23

Date: 11/05/2023

CIRCULAR

I am pleased to announce that a new entrepreneurship cell committee will be formed in our institution to promote entrepreneurship among our staff and students and encourage workplace innovation.

The committee will be responsible for organizing events, workshops, and mentoring sessions for staff and students who are interested in starting their own ventures or have innovative ideas.

The new committee members are the following:

Sl. No.	Name	Affiliation	Designation
1	Dr. B V Ravishankar	Principal, NCET	Chairman
2	Dr. Mahesh Shastri	Dept. of ECE, NCET	Convener
3	Dr. Rashmi H	Dept. of AIML, NCET	Member
4	Dr. Rohith	Dept. of ECE, NCET	Member
5	Mr. Subhakar	Dept. of DSE, NCET	Member
6	Dr. Nagendra	Dept. of CIV, NCET	Member
7	Mr. Suresh	Dept. of IS, NCET	Member
8	Mr. Abraham Rajan	Dept. of CSE, NCET	Member
9	Ms. Akshata	Dept. of MBA, NCET	Member
10	Mr. Vijay Kumar Patil	Dept. of Mech, NCET	Member
11	Mr. Manjunath J	Dept. of SWD, NCET	Member

Thank you for your attention and support.


PRINCIPAL
Nagarjuna College of Engineering &
Devanahalli (Tq) Bengaluru (Dt. H)

List of activities undertaken by ED cell from the year 2021-24

Sl. No.	Event Name	Date Of Conduction	No. Of Participants
1.	Impact Lecture Series-1 Session 1 Webinar on “Innovation- A Little Extra Mindset”	28 th September 2021	45- Students 10- Faculties
2.	Impact Lecture Series-1 Session 2 Webinar on “Secret Recipes of a Successful Entrepreneur”	28 th September 2021	110- Students 10- Faculties
3.	Impact Lecture Series-2 Session 1 Webinar on “Intellectual Property Rights”	8 th October 2021	120- Students 10- Faculties
4.	Impact Lecture Series-2 Session 2 Webinar on “Creative Entrepreneurship”	8 th October 2021	110- Students 10- Faculties
5.	United Nations Development Program District Stakeholders Consultation Meeting	29 th October 2021	15- Faculties
6.	Webinar on ‘Mental Health- The Elephant in the Rooms of Corporate India’	26 th November 2021	10- Faculties
7.	“Exposure and Field Visit of Government School in Yaluvahalli village, Chikkaballapura for Problem Identification”	11 th December 2021	40- Students 05- Faculties
8.	Mentorship Support Program Entrepreneurship & Incubation Facility in Campus	15 th December 2021	40- Students 08- Faculties
9.	Ideology with Technology	16 th December 2021	50- Students 06- Faculties
10.	MOU between Karnataka State Council for Science and Technology (KSCST) and NCET	17 th December 2021	50- Faculties
11.	Entrepreneurship Awareness Program Expert Talk on Process of Innovation and Technology Readiness	21 th February 2022	65- Students 06- Faculties
12.	Workshop on ‘Skills Needed for Enterprise Ready’	22 th February 2022	120- Students 10- Faculties
13.	Guest Lecture on “My Story Motivational Session by Successful Entrepreneur”	22 th February 2022	85- Students 05- Faculties
14.	Webinar on “Intellectual Property Rights”	10 th March 2022	35- Students 05- Faculties

15.	Workshop on “Principles of Building Startup”	12 th December 2022	270- Students 10- Faculties
16.	Field visit “Centre for Incubation, Innovation, Research and Consultancy”	27 th December 2022	03- Faculties
17.	Presentation by ISE Student	15 th February 2023	04- Students 02- Faculties
18.	Guest Lecture on “Bootstrapping and the Growth Strategies for a Start-Up”.	25 th February 2023	155- Students 05- Faculties
19.	An Invited Talk on “Life is a Choice”.	18 th March 2023	190- Students 10- Faculties
20.	“Incubation Opportunities for Faculty”	24 th June 2023	40- Students 05- Faculties
21.	“Innovation to Startup”	31 th August 2023	75- Students 05- Faculties
22.	“National Entrepreneurship Day”	09 th November 2023	152- Students 08- Faculties
23.	Development of Li-ion Battery based Electric Buggy by students	21 th August 2022	08 – Students 03-Faculties
24.	Development of Solar Powered Li-ion Battery based Electric Vehicle by students	19 th August 2023	12 – Students 03-Faculties

Activities Report

1) Impact Lecture Series-1 Session 1: Webinar on “Innovation- A Little Extra Mindset”

Schedule Time & Date: 28-09-2021 from 11:00 AM to 12:30 PM

Resource Person: Mr. Naveen Lakkur, Chief Innovation Coach- Institute of Inspiring Innovation

Target Audience: Engineering, Management Students, Graduates & Research Scholars.

Audience Count: 55

Theme of Webinar:

In order to foster entrepreneurial thinking, the Institutions Innovation Council- NCET & Entrepreneurship Development Cell- NCET organized the Impact Series in association with MoE's Innovation Cell, AICTE, on 28.09.2021. With the platform open to the speaker, Mr Naveen Lakkur started off by mentioning a book 'A LITTLE EXTRA-A BOOK OF ILLUSTRATIONS FOR EXTRAORDINARY RESULTS' and its characters. The speaker's topic was “Innovation- A Little Extra Mindset for Youngsters”. Mr. Naveen Lakkur said that there is a distinction between the ordinary and the extraordinary. It's that little extra in the right place that makes it ordinary and extraordinary. While ordinary is not bad at all, he emphasized that there is potential in every one of us to be a little extra, irrespective of the stage and phase that one is in life. The speaker wanted to inspire and kindle a positive attitude and create the right mindset required to produce extraordinary results for all. To see that the intent reached the audience, Mr. Lakkur went on to unleash small anecdotes and stories, which kept the audience motivated and captivated. There was a moral in each one of the stories.

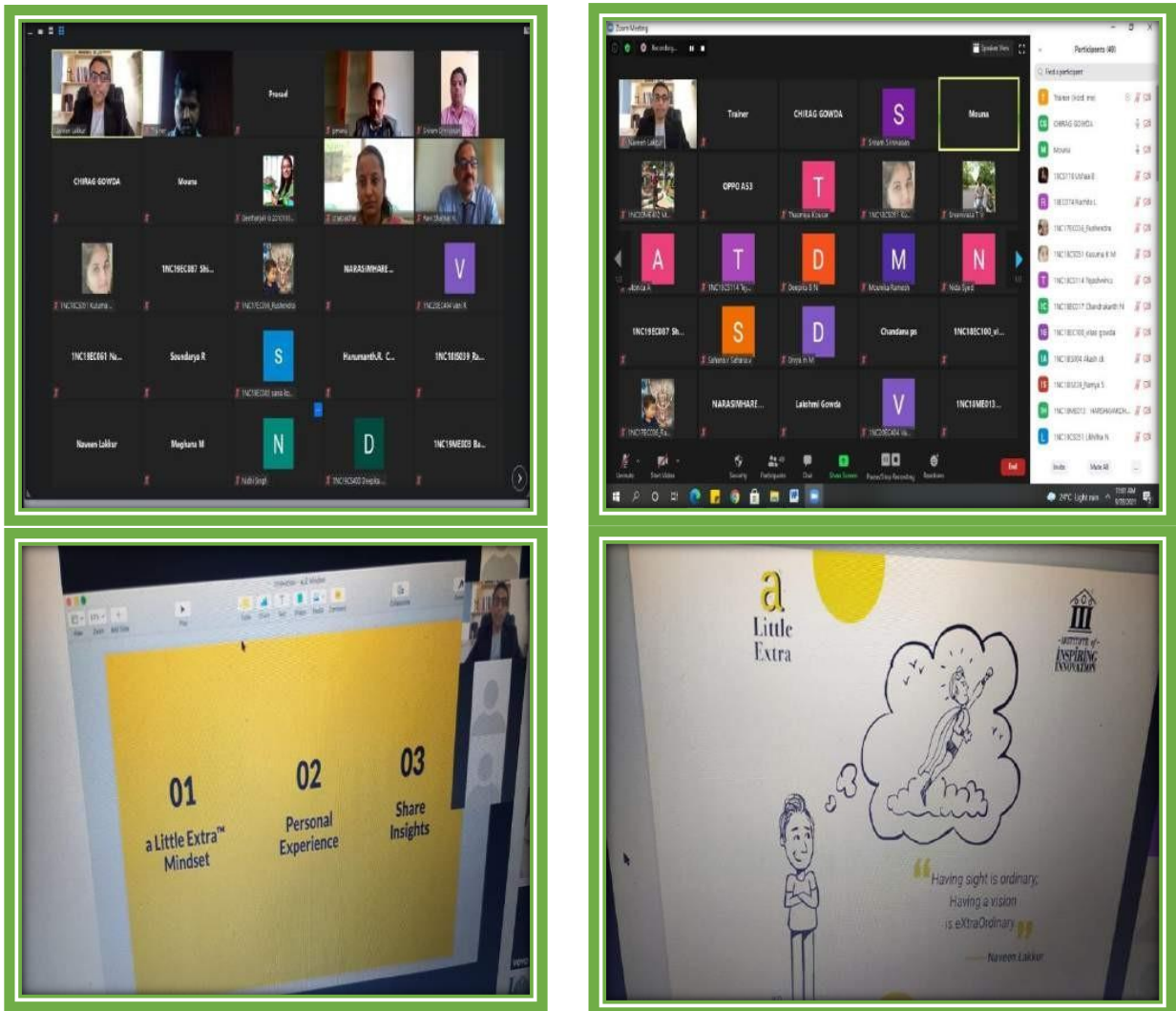
RESOURCE PERSON



Mr. Naveen Lakkur, Chief Innovation Coach, Institute of Inspiring Innovation

PHOTOS OF WEBINAR

Figure 1. Sample images of the webinar



Feedback Analysis: HighlyPositive (>90% combined Good and Excellent scores for the webinar)

Session links

<https://www.facebook.com/176228905900254/posts/1884872385035889/>

https://www.instagram.com/p/CVunC9Co81n/?utm_medium=copy_link

https://youtu.be/y_XZO6ArIHI

https://twitter.com/principal_ncet/status/1455104828120649731?t=vduTjppvJBE_A2BU9RdsFg&s=19

2) Impact Lecture Series-1 Session 1: Webinar on “Secret Recipes of a Successful Entrepreneur”

Schedule Time & Date: 28-09-2021 from 02:30 PM to 4:00 PM

Resource Person: Mr. Ramani Venkat

Target Audience: Engineering, Management Students, Graduates & Research Scholars.

Audience Count: 120

Theme of Webinar:

Gen Z needs to be innovative, adaptive, and have a mindset of entrepreneurial thinking and create opportunities even in a crisis. In order to foster entrepreneurial thinking, the Institutions Innovation Council- NCET & Entrepreneurship Development Cell- NCET is organizing the Impact Series in association with MoE's Innovation Cell, AICTE on 28.09.2021, which was how Prof. Sriram Srinivasan explained the need for the webinar.

The resource person shared his knowledge, experience, and present scenario on the given topic. At the end of the session, the Q & A session was fruitful in clearing the doubts regarding the topic for faculty and students who had participated in the discussion.

On completion of the webinar, all the students and participants filled out the feedback form and the participants were issued with an E-Certificate.

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Impact Lecture Series-1

Organized by Institutions Innovation Council - NCET &
Entrepreneurship Development Cell - NCET
Sponsored by MoE's Innovation Cell (MIC), AICTE

Tuesday 28th Sept '21

SESSION 1



Mr. Naveen Lakkur
Founder & Chief Innovation Coach,
Institute of Inspiring Innovation
Topic: 'Innovation - a Little Extra Mindset'
Time: 11am to 12.30pm

SESSION 2



Mr. Ramani Venkat
Co-Founder & Director Sales,
Biz Diagnostics
Topic: 'Secret Recipes of a Successful Startup'
Time: 2.30pm to 4.00pm

REGISTER : <https://tinyurl.com/4mxemzcj>
ZOOM LINK : <https://tinyurl.com/4zn49e7h>

INSTITUTION'S INNOVATION COUNCIL
University of HRD (India)

AICTE
All India Council of Technical Education

MHRD'S INNOVATION CELL
(GOVERNMENT OF INDIA)

PHOTOS OF WEBINARS

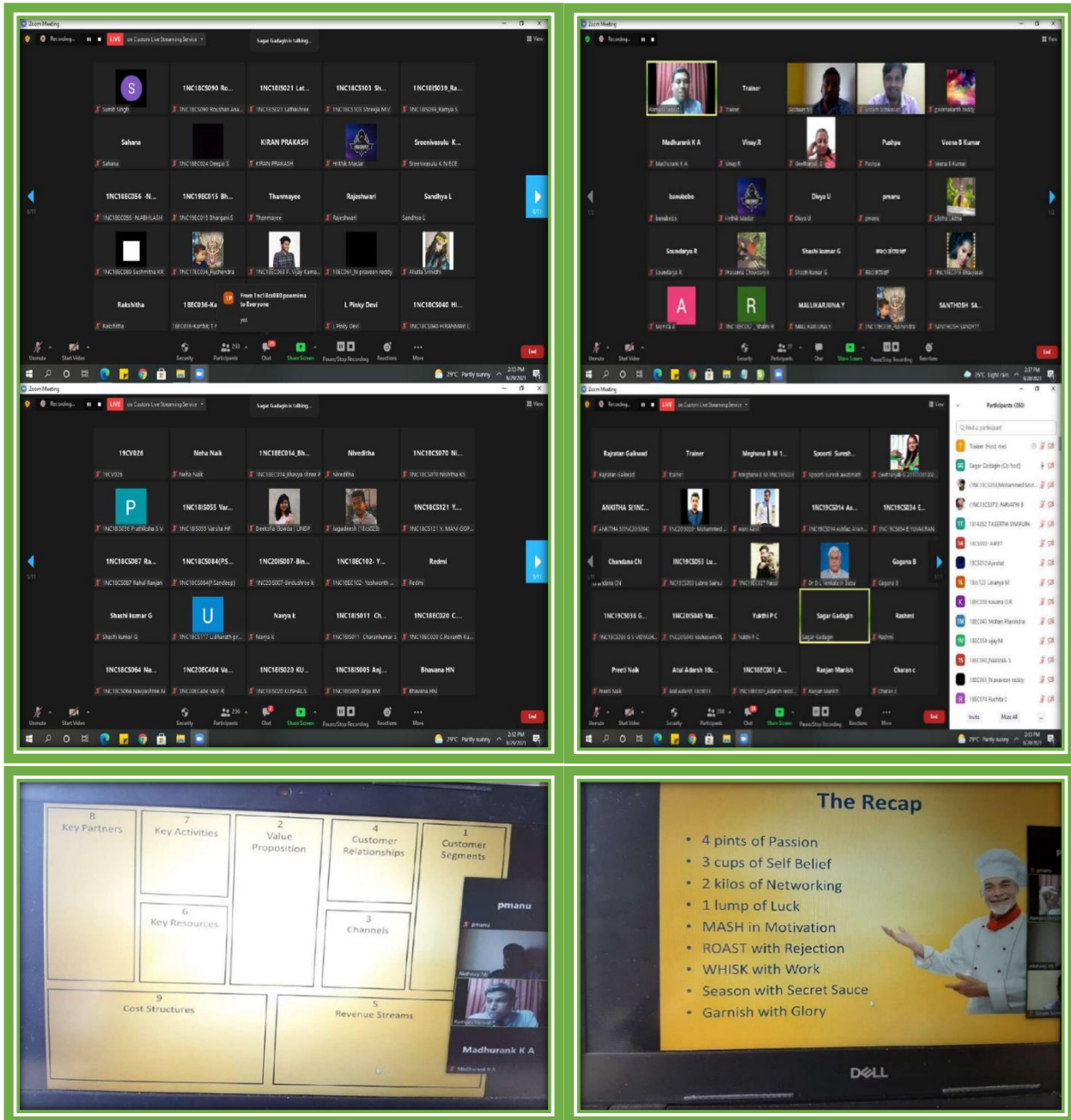


Figure 2. Sample images of the webinar

Feedback Analysis: Highly Positive (>90% combined Good and Excellent scores for the webinar)

Session Links:

<https://www.facebook.com/176228905900254/posts/1884874895035638/>

https://www.instagram.com/p/CVuxQU5IEZD/?utm_medium=copy_link

<https://youtu.be/DznR10tfYaM>

https://twitter.com/principal_ncet/status/1455127481715867651?t=xrTeAmSdWVjCUq3mN305mg&s=19

3) Impact Lecture Series-2 Session 1: Webinar on “Intellectual Property Rights”

Schedule Time & Date: 08-10-2021(Friday) from 11:00 AM to 12:30 PM

Target Audience: Engineering, Management Students, Graduates & Research Scholars.

Registered Participants: 400

Audience Count: 130

Theme of Webinar:

The resource person shared her knowledge, experience, and present scenario on Intellectual Property Rights. The session started off by providing a broad definition of intellectual property. The way intellectual property has transitioned from the Industrial Age to the Electric and Electronic Age and to the present IT and biotech Age was discussed. The way innovations led to the framing of intellectual property rights was discussed. The different types of intellectual property – Patents, Copyrights, Trademarks, Trade Secrets, Industrial Designs, Geographical Indications, Plant Varieties, Traditional knowledge, Integrated Circuits, and biodiversity. Five basic IPRs were discussed along with the subject, the source, identification and the type of protection it offers as per legal framework. A brief explanation of the patentable subject under Indian Patent law was discussed along with the exclusion list. Tips on good patent practices were deliberated along with the don't that should be considered or followed before patent filing. At the end of the session, the Q & A session was fruitful in clearing the doubts regarding the various forms of IPR for faculty and students who had participated in the discussion.

The poster is for the 'Impact Lecture Series-2' organized by the Institutions Innovation Council - NCET & Entrepreneurship Development Cell - NCET, sponsored by MoE's Innovation Cell (MIC), AICTE. It features two sessions: Session 1 on Friday 08-10-21 with Ms. Dr. Lipika Sahoo (PhD, LLE, PGDIPR, PGCBM, MPWE, Founder & CEO of LifeIntellect Consultancy Pvt. Ltd.) on Intellectual Property Rights from 11:00am to 12:30pm; and Session 2 with Ms. Richa Khandelwal Bhat (CEO of Keshava Productions Pvt. Ltd., NFDC Empanelled, MD of Narayana's Art Nirbhar Bharat Foundation) on Creative Entrepreneurship from 2:00pm to 3:30pm. The poster includes logos for Nagarjuna College of Engineering & Technology Bengaluru, NGI Nagarjuna Group of Institutions, and the organizing/sponsoring bodies.

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COLLEGE OF ENGINEERING & TECHNOLOGY
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Impact Lecture Series-2

Organized by Institutions Innovation Council - NCET & Entrepreneurship Development Cell - NCET
Sponsored by MoE's Innovation Cell (MIC), AICTE

Friday 08-10-21

SESSION 1



Ms. Dr. Lipika Sahoo
PhD, LLE, PGDIPR, PGCBM, MPWE,
Founder & CEO
LifeIntellect Consultancy Pvt. Ltd.
Topic: 'Intellectual Property Rights'
Time: 11:00am to 12:30pm

SESSION 2



Ms. Richa Khandelwal Bhat
CEO - Keshava Productions Pvt. Ltd.
(NFDC Empanelled)
MD - Narayana's Art Nirbhar Bharat Foundation
Topic: 'Creative Entrepreneurship'
Time: 2:00pm to 3:30pm

REGISTER : <https://forms.gle/yYtYrhoKzN6kZpU88>

INSTITUTION'S INNOVATION COUNCIL
(MINISTRY OF HIGHER EDUCATION)

AICTE
(TECHNOLOGICAL EDUCATION)

MHRD'S INNOVATION CELL
(GOVERNMENT OF INDIA)

PHOTOS OF WEBINAR

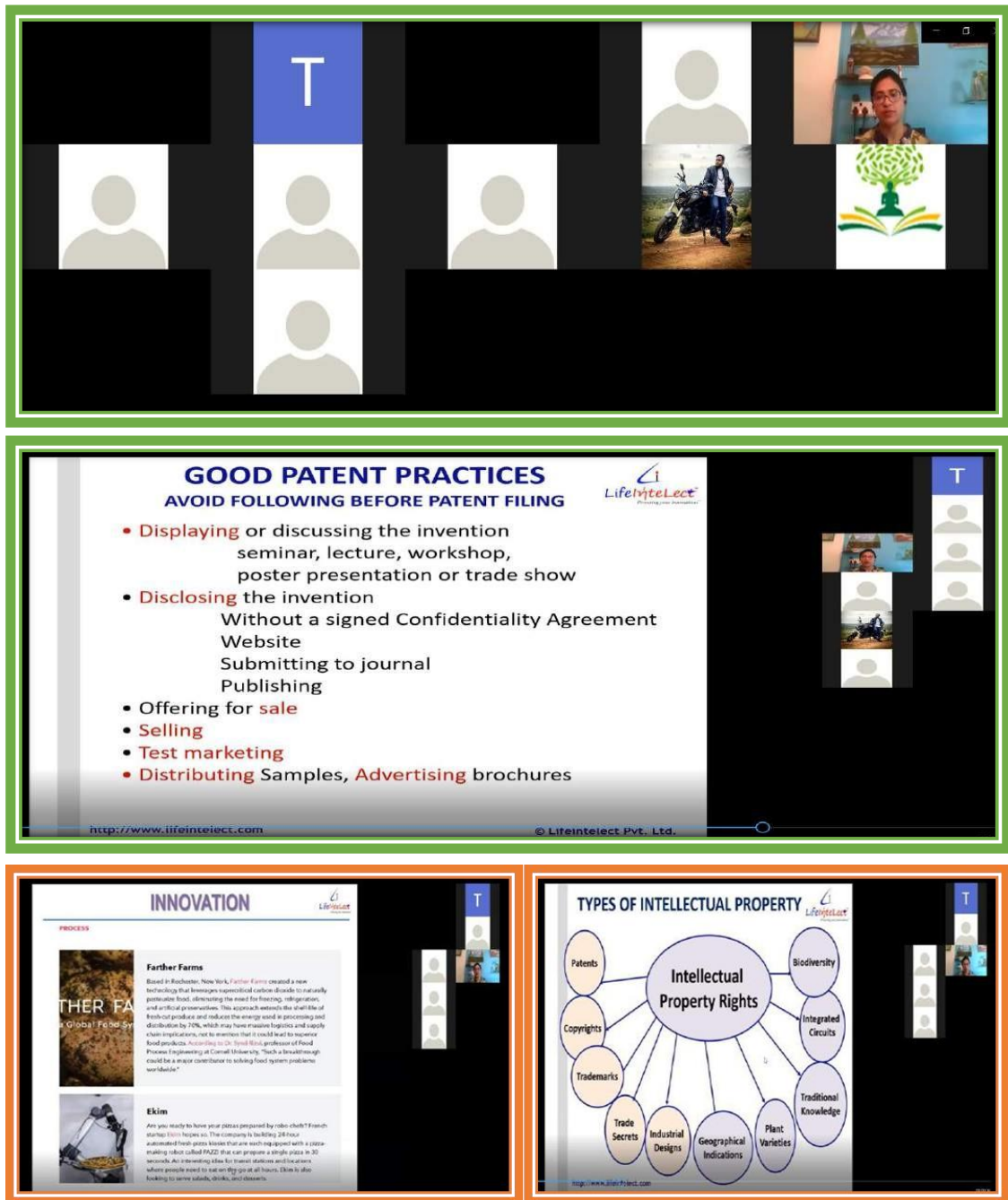


Figure 3. Sample images of the webinar

Feedback Analysis: Highly Positive (> 70% combined Good and Excellent scores for the webinar)

Registration Link: <https://forms.gle/yYtYrhoKzN6kZpU88>

Link to the entire recording:

Facebook: <https://www.facebook.com/176228905900254/posts/1882659195257208/>

Instagram: https://www.instagram.com/p/CVo0OSIIbaD/?utm_medium=copy_link

Twitter: https://twitter.com/principal_ncet/status/1454289455469056002?t=_WawGieroVz4QwBjO

1dldw&s= 19

YouTube: https://youtu.be/-TfQ6ginl_M

4) Impact Lecture Series-2 Session 2: Webinar on “Creative Entrepreneurship”

Schedule Time & Date: 08-10-2021 (Friday) from 2:00pm to 3:30pm.

Resource Person: Ms. Richa Khandelwal Bhat CEO-Keshava Productions Pvt Ltd (NFDC Empanelled) MD – Narayana’s Art Nirbhar Bharat Foundation

Target Audience: Engineering, Management Students, Graduates & Research Scholars.

Audience Count: 120

Theme of Webinar:

“Creative entrepreneurship is the practice of setting up a business – or becoming self-employed – in one of the creative industries. Essentially, creative entrepreneurs are investors in talent- their own or other people’s. New firms are disproportionately responsible for commercializing new innovations, particularly radical innovations that spawn entirely new markets or substantially disrupt existing markets. New and young businesses, not small businesses, are the engine of net job creation in the economy.

The resource person was Ms. Richa Khandelwal Bhat, a specialist in creating inspiring, original content from India for the national and international media market. She is currently involved in producing advertising films, TV shows, documentary films, digital media shows, and feature films.

Ms. Richa started off by asking a few questions to all the participants and also requested the participants to post their answers. Her first question was - Do you believe in yourself to be creative? She showed many pictures of which as young as 9th standard kids had showcased their creativity. The next question she asked was how many resources are needed and how much is enough. With this, she explained that with whatever available resources there are, we need to be creative. Then she asked the participants to distinguish between needs and wants, as it is very important to understand needs and wants.

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Impact Lecture Series-2

Organized by Institutions Innovation Council - NCET & Entrepreneurship Development Cell - NCET
Sponsored by MoE's Innovation Cell (MIC), AICTE

Friday 08-10-21

SESSION 1	SESSION 2
 <p>Ms. Dr. Lipika Sahoo Ph.D., LL.B., PGDIPR, PGDGM, MAWU, Founder & CEO Urmitaleet Consultancy Pvt. Ltd.</p>	 <p>Ms. Richa Khandelwal Bhat CEO - Keshava Productions Pvt Ltd (NFDC Empanelled) MD - Narayana's Art/Nirbhar Bharat Foundation</p>
Topic: Intellectual Property Rights Time: 11:00am to 12:30pm	Topic: Creative Entrepreneurship Time: 2:00pm to 3:30pm

REGISTER : <https://forms.gle/yYtYrhoKzNgkZpU88>

INSTITUTION'S INNOVATION COUNCIL
MHRD'S INNOVATION CELL (GOVERNMENT OF INDIA)

PHOTOS OF WEBINAR

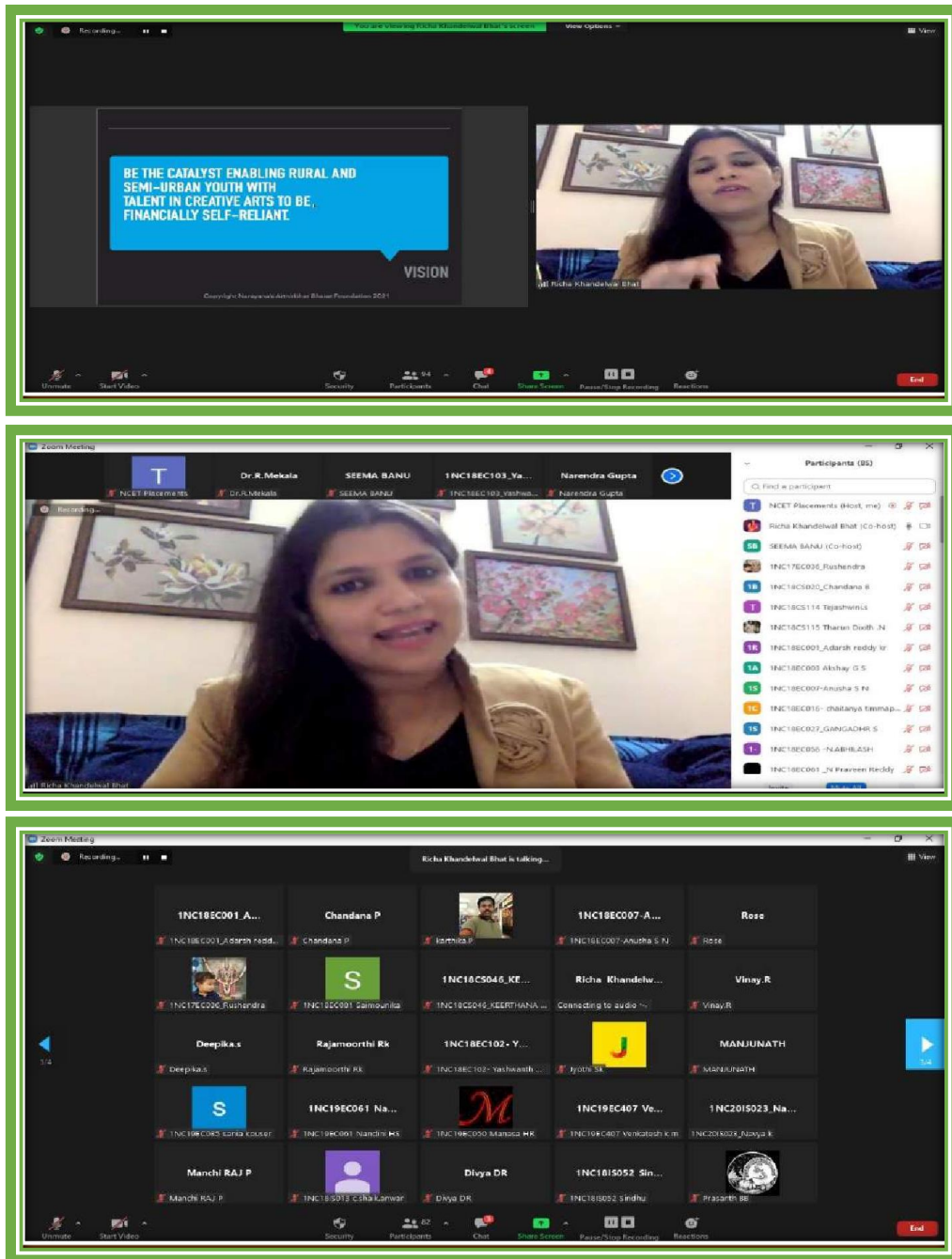


Figure 4. Sample images of the webinar

Feedback Analysis: Highly Positive (> 90% combined Good and Excellent scores for the webinar)

Link to the entire recording:

Facebook: NCET: <https://www.facebook.com/176228905900254/posts/1765056743684121/>

NGI: <https://www.facebook.com/104907164517543/posts/288277822847142/>

Instagram: https://www.instagram.com/p/CPDNIi-oJfy/?utm_medium=copy_link

Youtube: <https://youtu.be/TbH0H8EGM8w>

5) United Nations Development Program District Stakeholders Consultation Meeting



Schedule Time & Date: 29/10/2021 from 10:00am to 1:00pm

Total number of Participants: 15

Objective: The objective of the program is to establish, build, and sustain effective relationships and partnerships to initiate a district-level dialogue on the key thematic areas of the Karnataka Skills and Entrepreneurship Task Force constituted by the government of Karnataka towards effective collaborative implementation of the Enterprise Facilitation Centre and Project Code Unnati.

Dr. Geethanjali G, Head of ED Cell, NCET, Prof Balaji - Convener, IIC-NCET, and Prof Sriram S, Faculty-Department of MBA attended the District Stakeholders Meeting organized by the Government of Karnataka in association with the United Nations Development Program on 29th October 2021 as a part of UNDP-SAP Labs India Project Code Unnati. The meeting focused on establishing, building, and sustaining effective relationships and partnerships to initiate a district-level dialogue on the key thematic areas of the Karnataka Skills and Entrepreneurship Task Force constituted by the government of Karnataka towards effective collaborative implementation of the Enterprise Facilitation Centre and Project Code Unnati.

The overview of Karnataka Skills and Entrepreneurship Task Force by Ms. Manjushree, IAS, Mission Director, National Livelihood Mission, Government of Karnataka, Career Information and guidance thematic overview by Mr. Ashwin D Gowda, IRS, Mission Director, Karnataka Skill Development Corporation, Government of Karnataka, Youth Entrepreneurship and Incubation at colleges by Mr. H. Raghavendra, IPRS, Managing Director, Government Tool Room & Training Centre, Government of Karnataka were discussed in the meeting. Panel discussions on key thematic areas such as career information and guidance, Youth entrepreneurship incubation at colleges, building entrepreneurial ecosystems in districts driving local jobs/services, and convergence and private sector partnership were deliberated by all the stakeholders.



Figure 5. Sample images of the webinar

6) Webinar on 'Mental Health- The Elephant in the Rooms of Corporate India'



Schedule Time & Date: 26/11/2021 from 10:00am to 1:00pm

Total number of Participants: 10

Objective: The objective of the program was to Inspire, Motivate, Encourage, and orient students to turn into entrepreneurs and help them to come up with startups and make them become job providers than job seekers. The World Health Organization estimated that depression and anxiety are among the more prominent mental health issues that cost the global economy \$1 trillion a year in lost productivity. Mental health should no longer be seen as the elephant in the room. It is time we overcome the stigma and embrace the inclusivity of every individual. Mental health should be accorded an equivalent priority to physical health. Individuals need to prioritize self-care and support their loved ones in order to overcome disruptions. This proactive and pragmatic approach to mental health augurs well for individuals as well as society. In order to sensitize the relevance of mental health among students, ED Cell, in association with the Department of MBA, organized a webinar on Mental Health Elephant in the Rooms of Corporate India.

Outcome: Create awareness of mental health issues.



Figure 5. Sample images of the webinar

7) “Exposure and Field Visit for Problem Identification”

Schedule Date: 09/12/2021

Schedule Time: 11:00am

Total number of Participants: 45

Objective:

The objective of this activity is to expose students to real-time life challenges and to provide the opportunity to gather data, analyze data, propose solutions, and implement solutions. Also, it paves the way for personal development and inculcates a sense of achievement and readiness to take up projects that have a social impact and create digital awareness. Besides, it helps the students to strengthen their soft skills, leadership qualities, and team spirit. Moreover, these activities ignite the entrepreneurial mindset and societal commitment.

The students tried to understand the deficiencies that the rural segment, especially the girls, had in terms of proper infrastructure and basic requirements. They also analyzed that if hand holding and proper guidance are given at an early age, the rural youth can be empowered to have their own business be it agriculture, fishery, handloom, or anything else, and with knowledge of technology, the businesses can be grown manifold.

Outcome:

The students get an opportunity to study field problems.

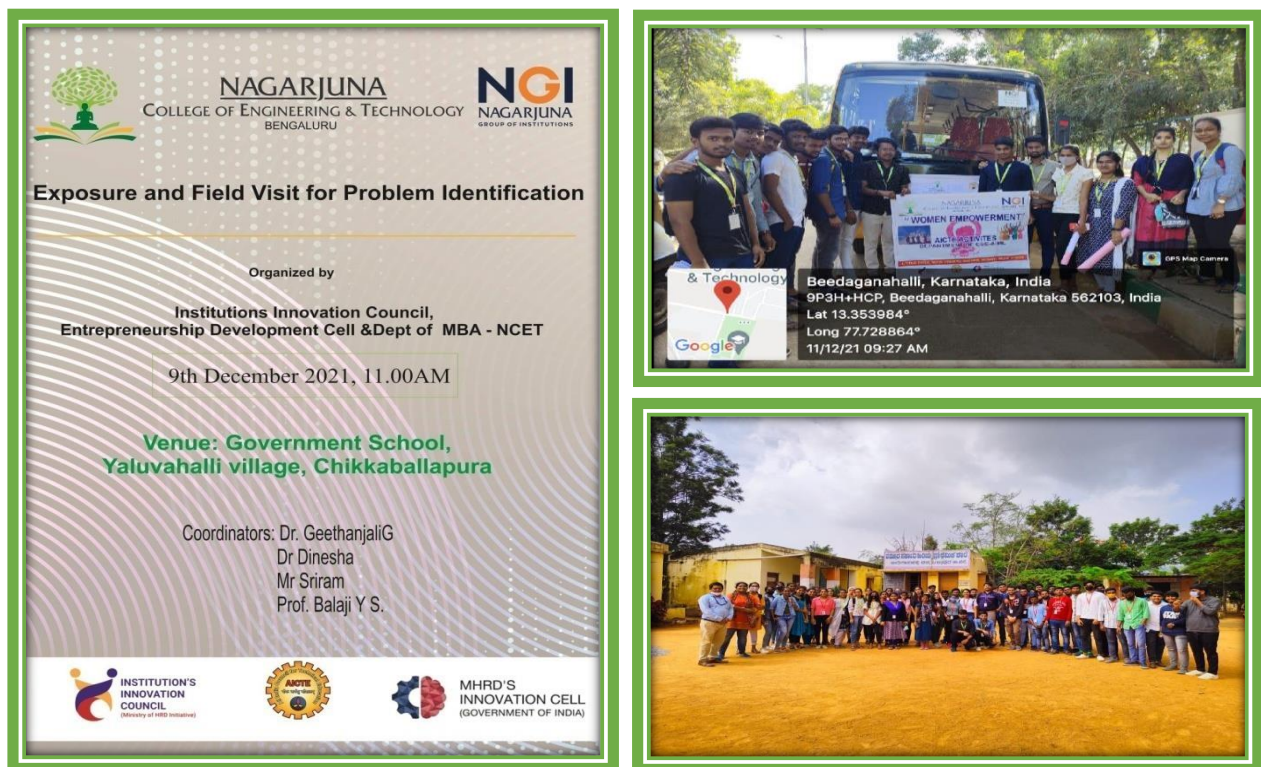


Figure 7. Sample images of the field visit

8) Mentorship Support Program Entrepreneurship & Incubation Facility in Campus

Schedule Date: 15/12/2021

Schedule Time: 02:00pm to 4:00pm

Total number of Participants: 48

Objective:

An awareness program on entrepreneurship and incubation facility for faculty was organized by IIC & ED cell of NCET. Mr. Kishor Jagirdar, a motivational orator, stressed entrepreneurship and how the faculty could think of becoming one at some stage in their lives. Drawing references from the seminal works of noteworthy scholars of Joseph Schumpeter, Frank Knight, and Israel Kirzner, Mr. Kishore Jagirdar was able to bring about a successful understanding of those in the audience for whom field management is relatively new. He highlighted how business incubators were actually lending their support to several other services and just mentioned the stages of business incubation. Dr. Cyril Prasanna, with his corporate and academic experience, addressed the audience about incubators and their roles; the need for faculty to play a role was highlighted extensively. How each department of the college could contribute its share to NCET and how they could be contributing towards research and entrepreneurship in their respective subjects and specializations. Mr. Jayachandra Aradhya emphasized and narrated how he became an entrepreneur in various instances in his entrepreneurial journey.

Prof. Balaji Y S Thanked the Principal, Speaker and all the participants.

Outcome: This program led to the process of having mentorship support from Vision Karnataka Foundation and support in setting up of incubation facility in the campus.



Figure 8. Sample images of the mentorship talk

9) “Problem Solving and Ideation Workshop named IDEOLOGY WITH TECHNOLOGY”

Schedule Date: 16/12/2021

Schedule Time: 11:00am to 4:00pm

Total number of Participants: 56

Objective:

The Principal declared the ideation workshop open and encouraged the students to come up with ideas and thoughts that are unique, sustainable, environment friendly, and with good social impact. "Ideology with Technology", the technical competition was initiated where the students participated as a team consisting of a maximum of 5 members. The participants in the team actively participated in presenting their innovative ideas through a presentation that was judged based on the Novelty of the Idea, Scalability of Idea, Social Impact, and Presentation Skills by a panel of judges.

Outcome:

The activity helped in igniting the young minds on thinking out of the box. They came out with creative ideas and put forth their thoughts on how the same can be prototyped and subsequently come out with products. The students had a healthy peer competition and tried to out beat each other with their unique ideation.



Figure 9. Sample images of the workshop

10) MOU between Karnataka State Council for Science and Technology (KSCST) and NCET

Schedule Date: 17/12/2021

Schedule Time: 10:00am to 12:00pm

Total number of Participants: 50

Objective:

Karnataka State Council for Science and Technology (KSCST) and Nagarjuna College of Engineering and Technology (NCET) may take relevant steps and measures to protect, promote and enhance research and development, which shall create scope for development of Intellectual Property (IP) and take appropriate decisions and measure in furtherance of the same.

- a) KSCST shall provide technical assistance in filing the registration of IPRs and prior art searches.
- b) KSCST shall associate with NCET in identifying the potential IP innovations in the host institute.
- c) KSCST shall associate with NCET in organizing IPR programmes
- d) There shall be no financial responsibility from the side of KSCST.

The institution is a recognized as Nodal Center for Virtual Labs sponsored by MHRD and Associated with IITB, Mumbai for e-Yantra Project. NCET has Signed MOU with ISRO and was part of Student Satellite “STUDSAT” Launched by ISRO- PSLV C15 on Jul 12, 2010 and also now building its own “Nagarjuna UNITY Satellite” as part of 75 Students’ Satellites Programme initiated to Celebrate India’s Freedom 75 (1947-2022) of ITCA fraternity as announced by our Hon’ble Prime Minister of India at UN General Assembly recently. NCET has vibrant Industry-Institute Collaboration with various MNCs including Texas Instruments Innovation Lab is equipped with 20 TIVA boards with ARM CORTXEX Microcontroller. For more details, kindly visit: <https://ncet.co.in/>



Figure 10. Sample images of the MoU

11) Expert talk on “Process of Innovation and Technology Readiness”

Schedule Date: 21/02/2022

Schedule Time: 10:00am to 12:00pm

Total number of Participants: 71

Objective:

The objective of the guest lecture was to inspire, motivate, encourage, and orient students to understand the process of innovation and the use of technology. The Principal in his opening remarks put forth the importance of innovation, and the technological disruptions happening. Mr. Vijay Raghvan, the resource person for the session, explained that innovation is not only an idea but a process. The journey from ideation to conceptualization, designing, prototyping and finally innovating is a roller-coaster ride and each level requires expertise in process as well as technology. Most of the innovations happening require technical know-how and Vijay laid stress on the fact that the young generation should definitely keep themselves abreast with the ever-growing technological advancements if they have to achieve the title of an entrepreneur or an intrapreneur.

Outcome:

The students got a new perspective of Innovation and understood the process as well as the complexities. They also understood that if they have to become Innovators of tomorrow they need to have a good technical knowhow besides having good business acumen.



Figure 11. Sample images of the Expert talk

12) Workshop ‘Skills Needed for Enterprise Ready’

Schedule Date: 22/02/2022

Schedule Time: 10:00am to 01:00pm

Total number of Participants: 130

Objective:

The Principal, in his opening remarks, motivated the students to turn into entrepreneurs and spoke about the skills the entrepreneur should possess. Mr. Ravi Shankar Dendluri, currently a Business Excellence Consultant and Trainer, was the resource person for the workshop on **Skills Needed for Enterprise Ready**. Mr. Ravi addressed the students on “21st Century Skills” wherein he highlighted certain skills from his vast experience so that students could be updated and stay topical in this era that is competitive and recovering from the aftereffects of Covid-19. Mr Ravi spoke about the various skills that are required, such as influencing skills, problem-solving, communication skills, flexibility, risk-taking with great work ethics, and having global foresight required to be a successful entrepreneur.

Prof. Balaji Y S thanked the Principal, Speaker and all the participants.

Outcome:

The students were able to understand and assess their skills and felt the need to acquire those skills with the help of internal resources available under IIC and Entrepreneurship Development Cell.



Figure 11. Sample images of the workshop

13) Guest Lecture on “My Story Motivational Session by Successful Entrepreneur”

Schedule Date: 22/02/2022

Schedule Time: 02:00pm to 04:00pm

Total number of Participants: 90

Objective:

Mr.Naveen P Senna, the resource person for the guest lecture explained how his entrepreneurial journey started as a student being part of Rotaract activities. He was one of the top 10 finalists of the Government of India’s Smart India Hackathon 2017. Post his master's, he served as an Assistant Professor at PES University. He is working as a managing partner works for Amigos Creations. He is working on his startup venture- OrbisEdu Services, with a motto of making students employment. Mr.Naveen spoke about the challenges he faced throughout the journey and how he managed to overcome them. He also shared important tips for becoming a successful entrepreneur. He interacted with all the participants and cleared a lot of their doubts with regard to entrepreneurship. His words inspired and motivated everyone.

Outcomes:

The students were inspired by the story of entrepreneur Mr.Naveen P Senna. The Students practically learnt the importance of communication skills, the importance of team work and the ability to take risk.

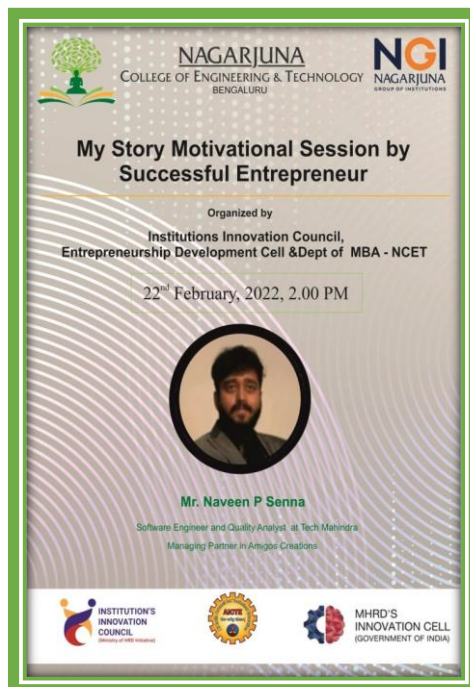


Figure 13. Sample images of the Guest Lecture

14) Webinar on “Intellectual Property Rights”

Schedule Date: 10/03/2022

Schedule Time: 10:00am to 01:00pm

Total number of Participants: 40

Objective:

The objective of the workshop was to inspire, motivate, encourage, and orient students to turn into entrepreneurs and help them to come up with startups and make them become job providers rather than job seekers. The National Intellectual Property Awareness Mission in Collaboration with IPR cells of NCET KSCST- MITE & SIET, NCET-IQAC CELL organized a Webinar on “Intellectual Property Rights” on 10th March 2022 at 2:30 pm. The session was chaired by Resource Person Sri. Abhishek Singh, Examiner of Patents and Designs(Since April 2016), Patent Office Chennai, Ministry of Industry And Commerce, Govt. of India. Dr. Jitendranath Mungara, Prinicipal, NCET, Dr.KGopalkrishnan, Advisory Dean R&D, HODS, internal and external faculty members and students were present at the event. Dr. Rohith S, Associate Professor ECE, NCET coordinated the Webinar.

A total of **500 participants** from various colleges were registered and attended the webinar.

Outcome:

The students were able to understand and assess their skills and felt the need to acquire those skills with the help of internal resources available under IIC and Entrepreneurship Development Cell.



Figure 14. Sample images of the webinar

15) Workshop on “Principles of Building Startup”

Schedule Date: 12/12/2022

Schedule Time: 09:00am to 04:00pm

Total number of Participants: 280

Objective:

The objective of this program was to enlighten the students on the business plan required to start a company. The session started with the introduction of the speakers by our beloved Principal Dr. B. V. Ravishankar. The speakers of the day were young, dynamic & innovation-driven entrepreneurs with a deep passion for technology and business. Talking about the term STARTUP The first speaker of the day, Mr. Balaji said, a startup is a young company established by one or more entrepreneurs to create unique and irreplaceable products or services. Startups are a result of bringing new ideas to life as they change people’s lives, solve their problems, and simplify their daily routines.

Pushkar R S & Mr. Akshay Ramesh shared his own story of inspiration. They made their opening remark with one of the beautiful quotes “Everything begins with an idea”. They told me how important having an idea is in startup ventures. Ideas are the roots of creation. A good idea becomes a great idea when we let it out. Ideas come from curiosity. Out of such curiosity, they have invented an app called DOCTRUE, through which patients can pre-book an appointment with their respective doctor. Patients no longer have to be worried about the wait times in the clinic. They can plan their daily schedule better. They spend less time waiting to meet the doctor. All of this goes a long way to enhancing patient satisfaction. They can even reschedule or cancel appointments in the event of an emergency. They also talked about the hurdles faced and the insults they suffered on this journey. It was a motivational session..

Outcome: Students how startups can change people’s life by bring new ideas in solving their problems.



Figure 15. Sample images of the workshop

16) Field visit “Centre for Incubation, Innovation, Research and Consultancy”

Schedule Date: 27/12/2022

Schedule Time: 09:00am to 04:00pm

Venue: Jyothy Institute of Technology

Resource person: Dr. Krishna Venkatesh, Director, CIIRC.

CIIRC is a multidisciplinary research, innovation, and incubation center and a joint initiative by Sri Sharadha Peetham, Sringeri, and Jyothy Institute of Technology (JIT). It is the centralized R&D center of JIT besides being recognized by DSIR as a Scientific and Industrial Research Organization (SIRO) center with DSIR certification. CIIRC® has emerged with a promise of ushering a new philosophy by bringing, for the first time on the same platform, diverse components of science, engineering, business orientation and skill development with emphasis on innovation, incubation and research, leading to successful entrepreneurship. An understanding of all these three aspects thus forms the core of academic & research erudition at CIIRC®, JIT; market research, alongside business planning, forms the basis of the enterprise component. The essential outcome of any academic pursuit, apart from imparting knowledge, should be to enable students to become readily employable or create their own industry, firm or enterprise. Hence, an Innovation and Entrepreneurship Development Centre (IEDC) has been established to nurture and hone the skills of budding entrepreneurs. CIIRC®, being a multidisciplinary research centre, aims to bring together complementary streams of activities for the benefit of society.

Dr. Geetanjali, IIC President, Dr. Gopinath, Dr. Mahesh Shastri, Mr. Sriram has visited to Jyothy Institute of Technology.



Figure 16. Sample images of the field visit

17) Presentation by ISE Student



Figure 17. Sample images of the seminar

Schedule Date: 15/02/2023

Presentations were given by 3rd semester ISE students for Entrepreneurship Development Course guided by Dr. Sanjeev Kumar M on 15th February 2023.

18) Guest Lecture on “Bootstrapping and the Growth Strategies for a Start-Up”.

Schedule Date: 25/02/2023

Schedule Time: 11:00am to 01:00pm

Total number of Participants: 160

Objective:

The objectives of the guest lecture were to bring awareness to the students on the challenges of a boot-strapped company, which depended on ‘Paying customers’

Activity Details:

ED cell organized a guest lecture on ‘Bootstrapping and the Growth Strategies for a Start-Up’ by Ms. Yamuna Sastry, Founder & CEO of Cab Dost and Co-founder of Dvara Money. Ms. Yamuna also spoke about ownership of a company, the first digital bank of India, ‘Spark Money’, and her journey as a founder of ‘Dvara Money’. She conducted an activity for the students to make them understand what is bootstrapping, by literally asking them to BOOT-STRAP.

Outcome:

Students were exposed to the concept of bootstrapping, the relevance of bootstrapping for a successful business.



Figure 18. Sample images of the Guest lecture

19) An Invited Talk on “Life is a Choice”.

Schedule Date: 18/03/2023

Schedule Time: 11:00am to 01:00pm

Total number of Participants: 200



Figure 19. Sample images of the Invited talk

Department of MBA in association with NCET Institution’s Innovation Council, Technical Innovation Club & ED Cell organized an Invited Talk on Life is a Choice by Mr. Rahul Kini, Senior Director, Food & Beverage, Target, Bengaluru. About 200 students participated in the event.

20) “Incubation Opportunities for Faculty”

Schedule Date: 24/06/2023

Schedule Time: 11:00am to 01:00pm

Total number of Participants: 45

Objective:

The session was conducted to create awareness among faculty regarding incubation opportunities which helps in fostering entrepreneurship culture among the students and the staff.

Activity Details:

Dr. Nirmala Gupta, speaker for the session highlighted on the need for incubation facility and the role of faculty in creating the entrepreneurship culture at the higher educational institutions. She also informed how students and faculties, participating in an incubation program can be an excellent way to gain hands-on experience in entrepreneurship and connect with other like-minded individuals. These programs provide access to experienced mentors and advisors, as well as valuable networking opportunities. The activity based session stressed on the need for having innovative and creative mindset among the faculty



Figure 20. Sample images of the awareness program

21) Guest lecture “Innovation to Startup”

Schedule Date: 31/08/2023

Schedule Time: 10:30am to 12:30pm

Total number of Participants: 80

Objective:

The objectives of the Expert talk is to bring awareness to the students innovation for setting up Startups

Activity Details:

The innovative startup session conducted by AH Sagar was a highly anticipated event that aimed to shed light on the intricacies of starting and managing innovative startups. The session was attended by MBA students who are aspiring entrepreneurs to seasoned business professionals, all seeking insights into the world of startups and innovation. He proved to be an enriching experience for all attendees. It provided a comprehensive overview of the key elements required to establish and manage a successful startup. Participants left the session inspired, armed with valuable insights, and better equipped to embark on their entrepreneurial journeys. A H Sagar's expertise and passion for innovation were evident throughout the session, making it a truly impactful event.

Outcome:

Students were exposed Importance of Innovation to become entrepreneurs



Figure 21. Sample images of the seminar

22) Guest lecture “National Entrepreneurship Day”

Schedule Date: 09/11/2023

Schedule Time: 02:00pm to 03:30pm

Total number of Participants: 160

Objective:

The objectives of the Guest talk is celebrate National Entrepreneurship Day.

Activity Details:

The National Entrepreneurship Day session conducted by Yashodhar K Nagaraju Founder Hanken Health Care Pharma Mfg Venture Business and Brand Manager – Ranbaxy Group, Managing Partner Galaxy Networks group was a highly anticipated event that aimed to shed light on the National Entrepreneur Day would be a great way to appreciate entrepreneurs with respect and recognition. This would encourage innovators, change-makers, Job creators, and business people towards growth and happiness. The session was attended by BE 1st year students who are aspiring entrepreneurs to seasoned business professionals, all seeking insights into the world of startups and innovation. He said that building your own brand is the most important thing and the story of failure is more important to keep in mind than the story of success. He inspired students by telling about the journey of big entrepreneurs like Zomato, mama earth, Relience, and many more, and he also told about his own journey as an Entrepreneur and how he failed and succeeded. It was a motivational and inspiring session for the 1st year BE students.



Figure 22. Sample images of the seminar

23) Project on “Development of Li-ion Battery based Electric Buggy”



by

**Madan Gowda
Arun Kumar
Daniel Onesimus
Harshith Kumar K
Harshith C
Manohar N R
Archana S**

**1NC20EC401
1NC19EC010
1NC19EC023
1NC19EC031
1NC19EC030
1NC19EC051
1NC19EC009**

In Association with

***ECE Department NCET& ED Cell NCET
Pvt. Ltd***

Re-BATT Energy Solutions



**Principal Investigator
Investigator**

**Dr. K N. Nagesh
Mahesh Shastri
Professor
Department of ECE,NCET
NCET**

Co-Principal

Mr. Murthy M & Dr.

**Assistant Professor
Department of ECE,**

The project was carried out at

***Nagarjuna College of Engineering & Technology
VenkatagiriKote post, Devanahalli 562164***

2022

Objective

- Identifying the problems in the Electronic Buggy.
- Reconstruction/rebuild the electric buggy.
- Replacing Lead-Acid battery to Li-ion Battery
- Testing the battery



Before Removing body



After the body is removed

Few pictures of students working



After the project



Figure 23. Sample images of the Buggy