



College of Home Science Nirmala Niketan



A. About IIC Institute

- **Vision / Mission of IIC established at the Institute**

The College of Home Science Nirmala Niketan aims at the total development of Indian Women, by providing opportunities to empower them with knowledge, skills and attitudes, to face personal and professional challenges with confidence. The Institution's Innovation Council (IIC) focuses on creating an ecosystem to foster the culture of innovation and entrepreneurship development. The IIC motivates students to indulge into idea generation, design development process, prototyping and business model development. It also encourages and supports innovative students to take up their ideas and have their own start-ups and entrepreneurial ventures.

Vision: To develop a culture of entrepreneurship in the campus by providing strong support to students and faculty members with innovative ideas focusing on the need of society in order to strengthen the education system and thereby help in the nation's economic growth and social development ultimately leading towards the path of self-sufficiency.

Mission:

- ✓ To work dedicatedly towards empowering students and faculty by developing a system with required infrastructure that can enable them to ideate, innovate, develop prototype with industrial standards.
- ✓ To forge and enhance linkages with communities and organisations at multiple levels (e.g., local, regional, national, and international) to provide strong support and help them to realize their potential.

- **Journey of IIC established at the Institute**

College of Home Science Nirmala Niketan established Institution's Innovation Council in the year 2018. The composition of council was based on the guidelines provided by MHRD's Innovation Cell. Students and faculty members participated in many activities organized by the IIC and MHRD's Innovation Cell. Some students have also taken part in Innovation Competition and submitted their prototypes. In 2018-19 we were able to get a 2-star ranking. Students and faculty members have experienced many benefits by participating in the activities of IIC.

2nd year of IIC was full of enthusiasm. This year was more organized as MIC had also provided clear guidelines thus helping the institution to organize various activities focusing on different areas including ideation, prototyping, start-ups, entrepreneurship, IPR, industrial exposure, etc. We were able to organize activities such as motivational talks, seminars, workshops, panel discussion, field visits, fashion show, etc. A PoC Competition was organized by the IIC which has created a lot of interest among students and faculty. Presentation of these PoCs were

appreciated by experts invited as Jury. These PoCs were submitted on the IIC portal for a higher level competition and students had undergone a training programme organized by MIC. It was a great learning experience for students. We have also participated in various leadership talks and E-sessions organized by MHRD's Innovation Cell. All of these sessions were very informative and useful. This year (2019-20) we were able to get a 4-star ranking.

Year 2020-21 was full of challenges as the pandemic had imposed a lot restriction. To accommodate the challenges faced by academic institutions, the MIC has made certain provisions to allow us to conduct activities without compromising students' benefit. Most of the activities were arranged using online platforms. We were able to organize various talks, webinars, workshops, fashion show, virtual visits, etc. to cover different topics such as design thinking, business model development, entrepreneurship, IPR, etc. Faculty of our council have also had the opportunity to register as Innovation Ambassador and have attended training program organized by MIC.

- **Diversified representation in the IIC established at the institute from industry, Interdisciplinary & Departments/ Units etc.**

The IIC of our College has got representation from various departments of our college and also from other reputed institute. We have experts from industry as well.

Details of members as follows:

Name	Designation	Department	Organization	Position
Dr. Anjali Srivastava	Assistant Professor	Textile and Fashion Technology	College of Home Science Nirmala Niketan	President and ARIIA Coordinator
Ms. Fatima Kader	Assistant Professor	Foods, Nutrition and Dietetics	College of Home Science Nirmala Niketan	Convenor and Internship Activity Coordinator
Dr. Siddhivinayak Barve	Director Scientific Research Center	Biotechnology	V.G. Vaze College	Member
Ms. Vrinda Udiaver	Assistant Professor	Textile and Fashion Technology	College of Home Science Nirmala Niketan	Start-up Activity Coordinator
Dr. Ritu Madhan	Assistant Professor	Textile and Fashion Technology	College of Home Science Nirmala Niketan	Innovation Activity Coordinator
Ms. Minelly Rodrigues	Assistant Professor	Foods, Nutrition and Dietetics	College of Home Science Nirmala Niketan	IPR Activity Coordinator
Mrs. Vibhuti Khedekar	Assistant Professor	Textile and Fashion Technology	College of Home Science Nirmala Niketan	Social Media Coordinator
Dr. Ratnaraje Thar	Assistant Professor	Foods, Nutrition and Dietetics	College of Home Science Nirmala Niketan	Member

Mr. Basesh Gala	Founder and MD	-	39 Solutions Group	Vice President and Expert from nearby Industry/Industry association/ Ecosystem Enablers
Mr. Sushil Mungekar	Founder & CEO	-	EN Learning	External Member, Start up/ Alumni Entrepreneur
Mr. Arvind Narayanan	Co-founder and Director	-	EN Learning	External Member in Incubation Centre

B. Brief mention of key functionaries at the IIC Institute

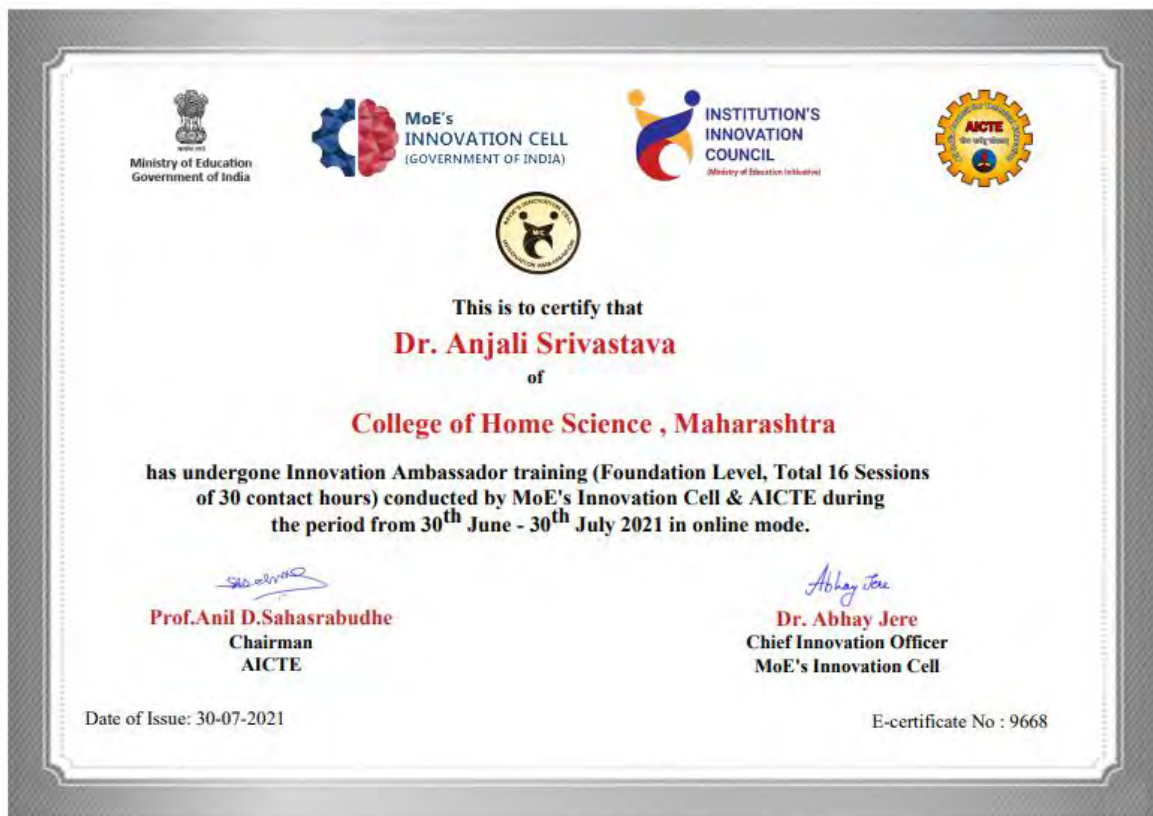
- **President** – Dr. Anjali Srivastava, Assistant Professor, Department of Textile and Fashion Technology, having more than 11 years of teaching and research experience in the field of Textile and Fashion Technology. Associated with IIC since last 3 years, organized various events related to Innovation, Start-ups, Prototyping, Entrepreneurship and many more. She has been instrumental in motivating students to participate in IIC and MIC led activities.
- **Convenor** - Ms. Fatima Kader, Assistant Professor, Department of Foods, Nutrition and Dietetics, having more than 8 years teaching experience. She is also involved in Counselling and Community Work. She has organized many motivational and entrepreneurship sessions. Also taking care of internship of students and preparing reports.
- **Start-up Activity Coordinator** – Mrs. Vrinda Udiaver, Assistant Professor, Department of Textile and Fashion Technology, having more than 15 years teaching experience. Organized several events at IIC and also handling various responsibilities at different committees. She is NISP Coordinator from our institute.
- **Innovation Activity Coordinators** – Dr. Ritu Madhan, Assistant Professor, Department of Textile and Fashion Technology, having more than 17 years teaching experience. She has coordinated various activities related to innovation. Coordinated an Innovation Competition “OJAS- On the Journey towards Attainment of Success”.
- **IPR Activity Coordinator**- Dr. Minelly Rodrigues, Assistant Professor, Department of Foods, Nutrition and Dietetics, having more than 10 years of teaching and research experience. She is a Registered Dietician- Indian Dietetic Association and has published several research papers. She has been engaged in networking with experts and has organized sessions related to IPR.
- **Social Media Coordinator** - Mrs. Vibhuti Khedekar, Assistant Professor, Department of Textile and Fashion Technology, engaged in teaching for more than 9 years. She is handling social media of our institute and holding responsibility to keep students and faculty updated about the various activities of IIC and MIC.

- **Member** – Dr. Ratnaraje Thar, Assistant Professor, Department of Foods, Nutrition and Dietetics, associated with our institute since a long period of time. She is involved in teaching and coordinating academic activities of the department. She was also associated with research unit of our college.

C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

Total No. of IIC Members	Faculty- 07 Students – 23 Outside Experts – 04
Total No. of IAs	Advanced Level -01 (Dr. Anjali Srivastava) Foundation Level – 04 (Dr. Anjali Srivastava, Mrs. Vrinda Udiaver, Dr. Minelly Rodrigues and Mrs. Vibhuti Khedekar)







- Total No. of faculty Mentors - 07
- Pre-Incubation Units - 01
- Incubation Units - 01
- IP Facilitation Unit - 0

D. Highlight Facilities, Infrastructure of Pre-Incubation & Incubation kind and Student bodies/clubs engaged in promotion of Innovation and Entrepreneurship in the campus.

We have well equipped laboratory facilities available for students to work on their projects. The college has in all 12 laboratories. The following designated laboratory areas:

- 3 Chemistry Laboratories and 2 Instrument rooms
- 1 Research Laboratory (equipped for research work by FND and TFT students)
- 2 Food Laboratories,
- 3 Textile and Clothing Laboratories
- 1 Interior-Designing Laboratory
- 1 Computer-Laboratory-cum-cybercafé
- Multipurpose laboratory
- Audio-visual room for conducting group presentations and guest lectures

Pre-incubation and Incubation Cell –Entrepreneurship Incubation Cell conducts activities related to Entrepreneurship. Fostering entrepreneurship through Entrepreneurship Incubation Cell wherein experts from Industry and Alumni Entrepreneurs mentor the current TFT students. The College Hall ‘Marie Adelaide de Cicé’ has a seating capacity of 250 which is used to conduct seminars, conferences, workshops and competitions for students.

E. Highlight Achievements (Narrative/Graphical/tabular representation)

- Number and Different types of I&E and IPR activities Conducted - 25
- No. of student's & faculty ideas generated - 28
- No. of student's & faculty Innovation/prototypes developed - 28
- No. of IPs generated, published and granted - 0
- No. of Student & Faculty Start-ups/Ventures established - 12
- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus - 0
- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR - 0
- No. of Technology Transfer and Commercialisation happened - 0

F. Highlight few best IIC Faculty/Student members and their achievements/ Rewarded for the innovations at different forum

Dr. Ela Dedhia, HOD and Associate Professor, Department of Textile and Fashion Technology mentored 12 students at postgraduate level. Prototype submitted by all of these students were nominated for regional level mentoring under IIC National Innovation Competition 2020. One prototype qualified for Second Stage of training and evaluation and got opportunity to attend training program organized by MIC. Details of projects mentored by Dr. Dedhia:

Student Name	Project
Rutu Kanade, Madhuri Mamania, Saloni Maniar	Women's Safety through Camera and Safety Alarm

Harita Parmar, Arwa Kalawadwala, Vaishnavi Karpe	Heating pad for relieving muscle pain and menstrual cramps
Bhanushali Riddhi Vallabhji, Sakina Nullwala, Mizbah Patel	Incorporation of lights for the hospital nurses
Janvi Nagada, Shruti Sonawane, Shivani Kalariya	Smart garment for the safety of common man

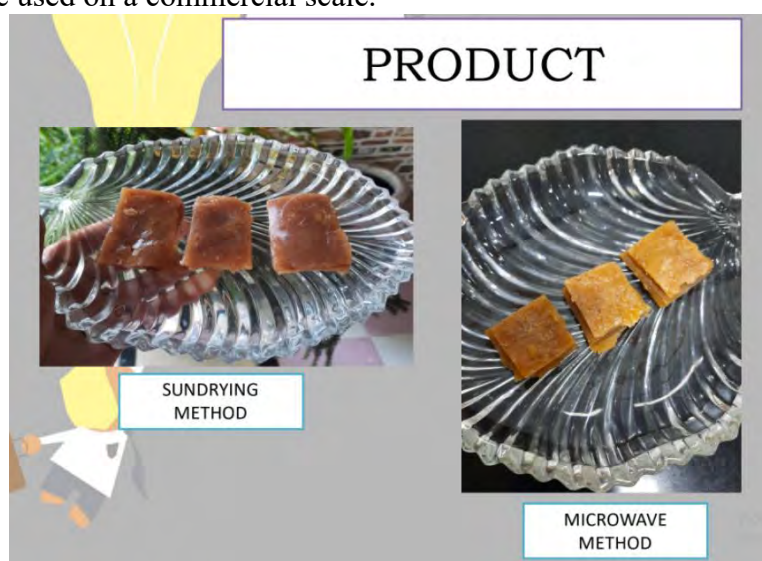
G. Highlight selected best Innovations & images with mention of inventor/innovation name

Pankti Gala and Nehal Koradia - TYBSc students, Dept. of Foods, Nutrition and Dietetics presented a POC in OJAS competition and won 1st Prize for her Innovative Service – “Nutri Plung- A Revolution in Nutrition Education”.

They have designed a service which targets the 3rd and 4th Sustainable Development goal of Good health and well-being and Quality Education respectively. This service will provide Nutrition Education programme for school children.



Roslyn Carvalho, Samiksha Lopes, Vincia Dias - 2nd Prize winner of OJAS Competition wherein they have presented an innovative project based on theme Sustainable Consumption and Production. They made a product similar to Aam papad using ripe bananas. It was developed to maximize the usage of cultivated bananas, which can be used on a commercial scale.



Ms. Hafsha Qureshi- 3rd Prize winner of OJAS Competition and her theme was sustainability wherein product development stages was based on the textile recycling. She developed laptop covers using old casement table skirting and cover fusing with old baby rubber sheets. Machine embroidery was done for value addition of the product. She has also developed a Cushion cover with stencil art- using old fabrics. Stencil art was used to enhance the value of the product developed. These products have potential for marketability. Her business plan include training of domestic worker to make these products so that they can become self-reliant.



Cushion cover with Stencil Printing



Laptop Cover with machine embroidery

H. Highlight selected start-ups established by students/faculties with mention of founder/cofounder name

Name of Startup	Founder's Name	Social Media Link
Simply crafted	Ms. Ashfa Mulla	https://instagram.com/simply_crafted_aa?utm_medium=copy_link
Priksha	Ms. Priyanka Kadam	https://instagram.com/pri_3k?utm_medium=copy_link
Taqdees Illustrations	Ms. Taqdees Pawaskar	https://instagram.com/taqdees.illustrations?utm_medium=copy_link
Quirkons	Ms. Samiksha Patil	https://instagram.com/quirkorns?utm_medium=copy_link
Gorgeously flawed (Youtube Channel)	Ms. Akshada Hombre	https://youtu.be/mcKKZL9emL4

I. List if any break through Innovations / Technology Developed at the institute (2-3 technology with 2-3 lines about technology and innovation

Heating pad for relieving muscle pain and menstrual cramps- Pains in joints and muscles have been a constant complain among the younger as well as the older generation. Wearing a heating belt every time isn't suitable for all outfits. Thus to address this issue, the collection presented provides a heating mechanism inbuilt in the accessories. The objective is to provide an aesthetically appealing accessory with a cordless heating mechanism to relieve the pains in the joints, muscles and during menstruation or otherwise which can be used anywhere without any plugging facility. The mechanism can be detached from the base very easily for laundering. It's

functioning is on batteries which provides temperature regulation through a mobile application. The belt can also be worn aesthetically on other garments. The mechanism can be used also for pains in the neck, shoulders, knees, wrists as well as calves along with waist. International Bargello embroidery is used for surface ornamentation for its compact design helps in retaining the temperature for a longer period of time.



Heating pad for shoulder



Heating pad for waist

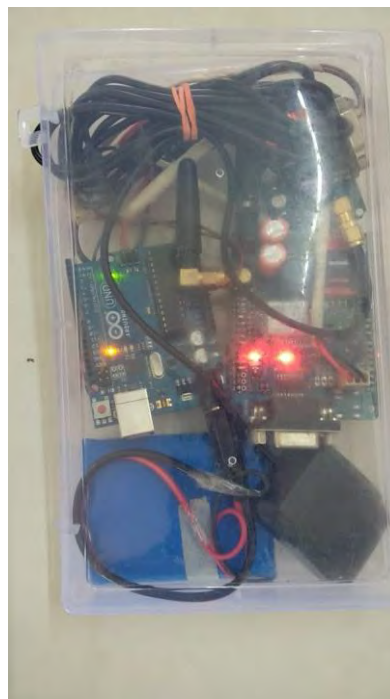


Heating pad for wrist

Smart garment for the safety of common man- In the era of technology and advancement newspapers and filled with the cases of people being victimized. Not only the middle aged, teenagers or women but children are also being the targets of harmful acts. Children are kidnapped, raped, murdered which concerns parents, guardians and the society. To make the children independent and the guardians aware of their location, a GPS system is incorporated in their garments. This system is connected to the mobile phones of the concerned person (parent, teacher, guardian) and when the person types “TRACK” he/she will get the exact location where the child is. This system is detachable and can be worn on any outfit even within the school uniform. This device is meant for safety purpose and can be used by any age and any gender person like school going children, teenagers, youngsters, elderly, physically and mentally challenged people. To embellish the garment, Norwich embroidery has been incorporated.



Skirt with GPS Tracker System



GPS Tracker System

Women's Safety through Camera and Safety Alarm – Safety of Women has become a major issue in India now. The crime rates against women in the country have risen to a great extent. Women think twice before stepping out of their homes, especially at night. This is, unfortunately, the sad reality of our country that women live in constant fear. Not a day goes by where you don't hear of the news of a crime against women in India. Addressing this safety issue here's a collection of garment that incorporate camera embedded within the Ribbon embroidered garment where the camera recordings can be tracked in case of emergency on mobile phones.



Embedded camera within the Ribbon embroidered garment

- J. **Participation of IIC-institute in various programs of Central and Stage Govt. Highlighting specially for the schemes or programs**

- ARIIA – participation and Rank – Participated and awaiting declaration of rank.
- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation – Appointed Mrs. Vrinda Udiaver as NISP coordinator. She has attended orientation programme organized by MIC. Policy formulation in progress.
- Smart India Hackathon etc. – No.

K. Detail of Social Media & Connections of IIC institute

IIC of our college is having presence on social media including Facebook and Instagram. Link of the social media given below:

FACEBOOK: <https://www.facebook.com/iicnnchsc/>
<https://www.facebook.com/Institute-Innovation-Council-TFT-1415796308563165>

INSTAGRAM: https://instagram.com/iicnnchsc?utm_medium=copy_link

L. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell

I am associated with IIC since the inception of it in our college. It has provided enormous opportunities for growth and development for me both academically and professionally. Being part of the Council we were able to organize various activities that has boosted our confidence. It has also provided opportunities to interact and network with experts of multiple areas such as entrepreneurship, IPR, design development, innovation, start-ups, business management and so many. Overall experience was full of knowledge and enthusiasm. We were able to facilitate learning experiences to students, motivating young women entrepreneurs, guiding them in the direction of start-up and entrepreneurship development.

I was fortunate to receive training as part of Innovation Ambassador Training Programme arranged by MIC for faculty members. It has broadened by knowledge in various areas of entrepreneurship, IPR, design development process, prototyping and many more. I express my deep gratitude to Ministry of Education and its Innovation Cell.

Dr. Anjali Srivastava, President and Assistant Professor, Department of Textile and Fashion Technology

Institution's Innovation Cell has helped create an Innovation and entrepreneurial culture within the college. However, more awareness is required and that will take time. Also as of now it has become over and above the workload for a Teacher and though IIC is about integrating it with academic curriculum that process requires time and concerted efforts from all the stakeholders. Hope to see that change in the coming days with the efforts put forth by the IIC of MOE and HEI. The Innovation Ambassador training is definitely worth attending.

Ms. Fatima Kader, Convenor and Assistant Professor, Department of Foods, Nutrition and Dietetics

The IIC is a great initiative by MOE and a much-needed opportunity for faculty as well as students. The clear guidelines, orientations and other sessions such as those organized for Innovation Ambassadors are excellent and give the students and faculty more in depth knowledge about a variety of topics. This aids a great deal by making each one think in terms of innovation, design thinking, prototyping, IPR etc. and makes us more confident in our abilities so as to foster in us the spirit of entrepreneurship that is vital to create an 'Atmanirbhar Bharat'.

Mrs. Vrinda Udiaver, Innovation Activity Coordinator and Assistant Professor, Department of Textile and Fashion Technology

The IIC in the College systematically fosters idea generation in the young minds. IIC organizes various activities in the institute which encourage, inspire and help the students to grow as successful entrepreneurs in the field of their education. The various modules under IIC have been thoughtfully planned ensuring a smooth transition for the young minds.

Dr. Ritu Madhan, Start-up Activity Coordinator and Assistant Professor, Department of Textile and Fashion Technology

The Institution's Innovation Council of College of Home Science, Nirmala Niketan has proven to be a platform in fostering the culture of Innovation and Entrepreneurship amongst students. Various sessions are planned by the council keeping the interest of the students in mind. Mentoring sessions with the experts from various fields have been very instrumental in igniting the spark of innovation amongst the students.

The Competitions organised by the council have witnessed some amazing creativity of the students.

As a social media coordinator, I myself have learnt a lot from this Council and look forward to more learning.

Mrs. Vibhuti Khedekar, Social Media coordinator and Assistant Professor, Department of Textile and Fashion Technology

The Institution's Innovation Council of College of Home Science Nirmala Niketan has conducted POC competition in June 2021 where all the participants had participated in presenting their POC based on Sustainable Development Goals. This competition enhanced the value of innovative ideas coming from different fields and sectors. This competition helped me to reach out to those experts and connect them through my creative innovations. Presenting your research or ideas in front of such expertise provides recognition of the theory. This competition took my education level to a start of professionalism.

3rd place winner at OJAS

Thanks and Regards,

Ms. Hafsha Qureshi, Post Graduate Student, Department of Textile and Fashion Technology

College of Home Science, Nirmala Niketan's Institute Innovation Council cell has Been extremely proactive in coming up with initiatives to encourage students to think

bigger about their future, become self- reliant and know the immense amount of scope entrepreneurship has.

One of the competitions being 'OJAS- On the Journey to attain success''

It gave an amazing opportunity to showcase our unique venture which led to winning the competitions and also getting offered Funding and mentorship by the judge.

As a student, this is something really huge and encouraging!

The IIC committee has been working very hard to get such lovely opportunities for the students and aiming at helping them grow at college and in life!

Regards,

Nehal Koradia, T.Y.B.Sc. Student, Department of Foods, Nutrition and Dietetics

College of Home Science, Nirmala Niketan's Institute Innovation Council cell has Been very engaging throughout the year by conducting various nation conferences and organizing competitions.

One of them is OJAS - On the Journey to attain Success.



It gives a platform to young minds to put forth their ideas and help our vision turn into a successful venture.

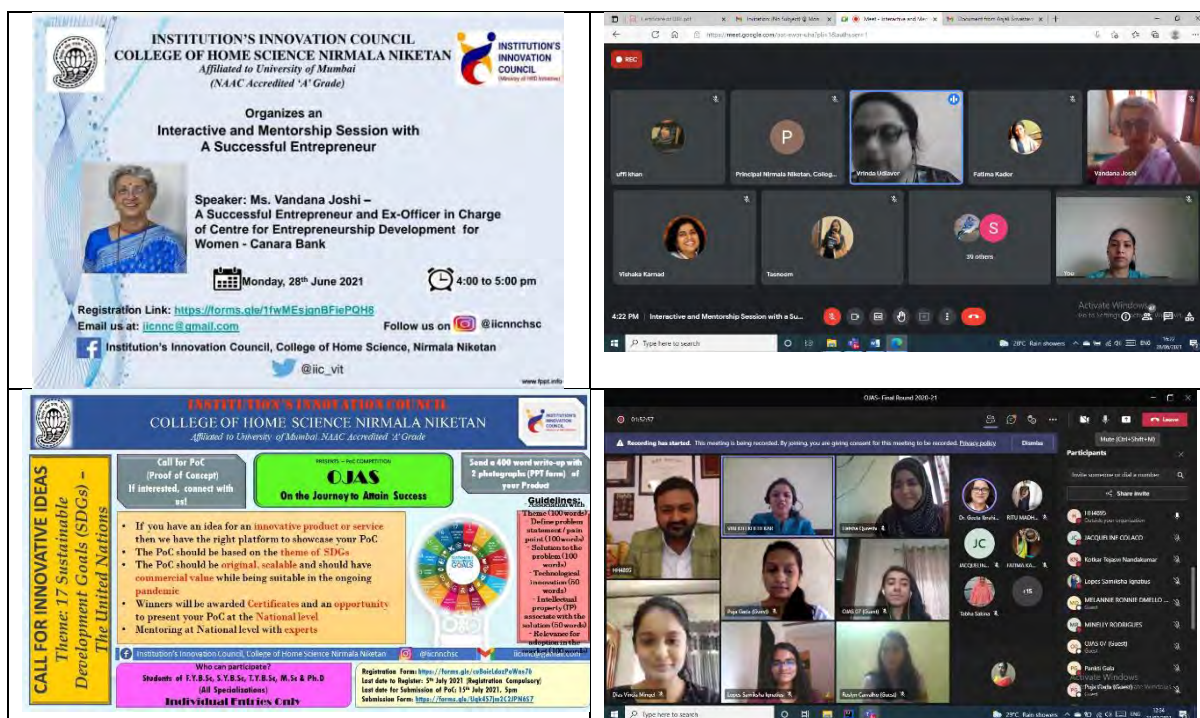
Indeed a great initiative by the college and encourage students to actively participate in the council's activities.

Regards

Pankti Gala, T.Y.B.Sc. Student, Department of Foods, Nutrition and Dietetics

M. Images

Programme Brochure	Photo Evidence
	



N. Contact

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