AARUPADAI VEEDU INSTITUE OF TECHNOLOGY
INSTITUTION INNOVATION COUNCIL (IIC) – AVIT
DEPARTMENT OF BIOTECHNOLOGY

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Program Driven by IIC Calendar Activity/ MIC Driven Activity/ Celebration Activity/Self driven activity	Self-driven activity		
Event Title	**Biodegradable Herbal Sanitary Napkin Sustainable Innovation to Save Earth**		
Resource Person	Dr.P.Mahalakshmi, Assistant Professor and Innovation Ambassador, Department of Biotechnology, Guru Nanak College, Chennai.		
Academic year	2024-2025	Quarter	II
Program Type Level 1 - Expert Talk/ Exposure Visit/ Mentoring Session (2 to 4 Hours) Level 2 – Conference / Exposure Visit / Seminar / Workshop (5 to 8 Hours) Level 3 – Bootcamp/ Competition/ Demo Day/ Exhibition / Workshop (9 to 18 Hours) Level 4 – Challenges/ Hackathon/ Tech Fest (Greater than 18 hours)	Level 1 - Expert Talk/ Exposure Visit/ Mentoring Session (2 to 4 Hours)		
Program Theme IPR & Technology Transfer / Innovation & Design Thinking / Entrepreneurship & Startup / Pre-Incubation & Incubation Management	Innovation & Design Thinking		
Start date & End Date (DD/MM/YYYY)	13/02/2025		
Duration of the activity (in Mins) & Start Time & End Time	2 hours	10:30 a.m	12:30 p.m

Participants	Faculties	Students	
Mode of session (online / offline) * Online Video Url compulsory	Offline		
Event Organizer / Coordinator Faculty Name / Department / Designation	Dr.L.Nagarajan/Associate Professor/Department of Biotechnology		
Target Participants	60		
Outcome	Students benefited about information given in the lecture		
Benefits in terms of learning/skill/Knowledge obtained (150 letters only)	The environment pollution resulting from the use of the normal sanitary napkins, she has encouraged the production and more use of eco-friendly napkins. Commercially available napkins are largely plastic-covered sanitary napkins manufacture with super absorbent polymers as their major components, which take roughly 500 years to degrade.		
Expenditure Amount, If any			

Report:

Report on Expert talk on "Biodegradable Herbal Sanitary Napkin Sustainable Innovation to Save Earth" dated 13.02.2025

Department of Biotechnology, AVIT organized the **Expert talk on "Biodegradable Herbal Sanitary Napkin Sustainable Innovation to Save Earth" in association with Institute Innovation Council** (IIC -AVIT) based activity on 13.02.2025. The session started at 10.30 AM. The gathering was welcomed by Dr.Nirmala. A, Associate Professor and Head, Department of Biotechnology, AVIT which was followed by the speaker introduction by Mr.Logeshwaran, III year, Department of Biotechnology. The IIC student innovation ambassadors and office bearers were introduced by Dr.L.Nagarajan, Associate Professor and the session was handed over to guest speaker Dr.P.Mahalakshmi, Assistant Professor and Innovation Ambassador, Department of Biotechnology, Guru Nanak College, Chennai.

She started the lecture stating that the environment pollution resulting from the use of the normal sanitary napkins, she has encouraged the production and more use of eco-friendly napkins. Commercially available napkins are largely plastic-covered sanitary napkins manufacture with super absorbent polymers as their major components, which take roughly 500 years to degrade. Approximately every woman will use about 11,000 pads in their lifetime and these are bound to a landfill this causes major environmental concern. As a remedy the sanitary napkins that are biodegradable has been developed using banana fiber, bamboo, and polylactic acid derived from corn starch. The current work seeks to establish the possibility to use these environmentally friendly products with special emphasis on the cost issues and the impact they would have on the environment. Low cost, high biodegradability, high absorbency, high tensile strength, and possibility for banana fiber in the development region are pointed out. The outcome in terms of banana fiber sheets production as well as their incorporation into Sanitary Napkin were encouraging in respect of absorbency, antibacterial activity and biodegradability. The tests proved that the new biodegradable napkins disintegrate much more quickly than current plastic-based products, in a matter of months, contrary to the centuries that it would take for plastic pads to decompose. This is the reason why current biodegradable napkin products cost less than conventional napkin products as production price is still relatively high. This research adds for the possibility of biodegradable sanitary napkin to reduce environmental degradation issue, through the alternative provision of safe and affordable, hygienic menstrual solutions where there are few to non-existent. Such products if further developed and marketed on large scale could be made available and sustainable for people all over the world..


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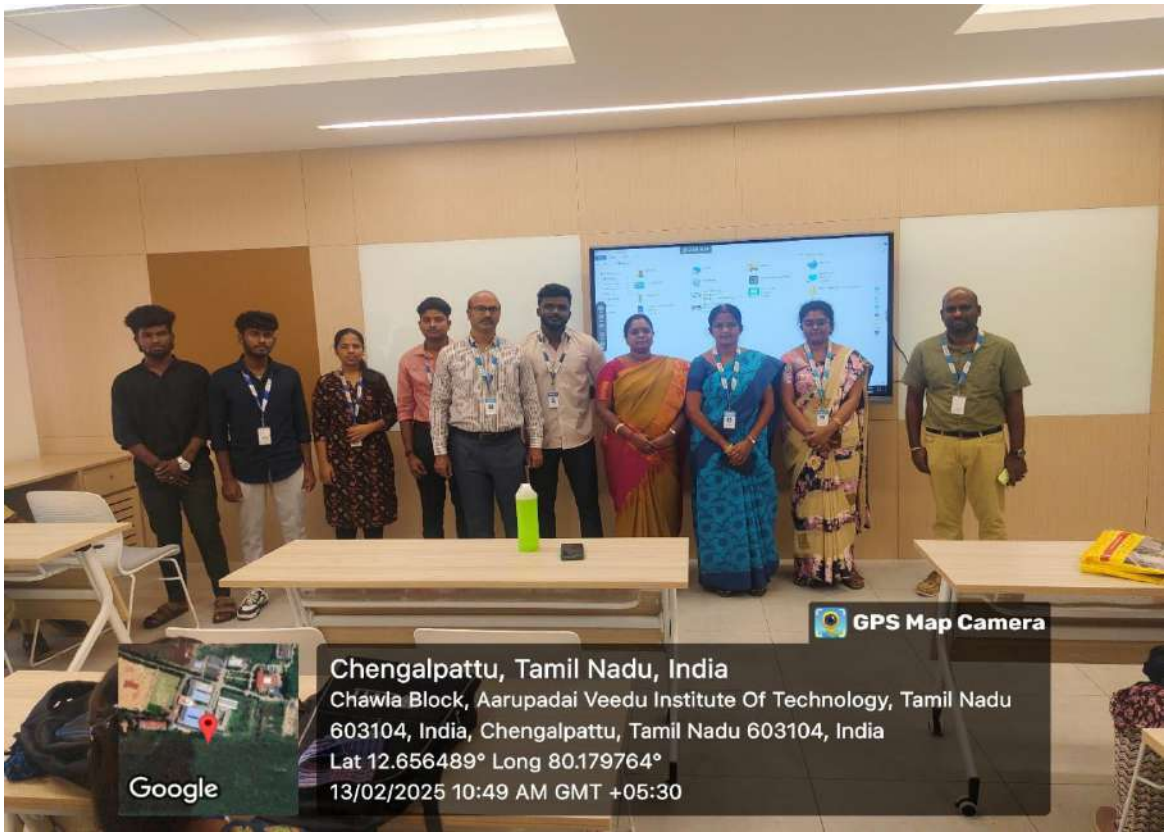
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This also created a entrepreneurial skill to start their own firm by carrying out all the basic level of research before entering into producing Herbal napkins. On the whole around 60 students were benefitted from this expert talk. Finally the session was closed with a vote of thanks delivered by Mr.Surya, III year, Department of Biotechnology, AVIT.

LIST OF PARTICIPANTS

FACULY LIST

S.No	STAFF NAME	DESIGNATION
1.	Dr.A.Nirmala	Associate Professor & HoD
2.	Dr.L.Nagarajan	Associate Professor
3.	Dr.S.Shanmuga Sundar	Associate Professor
4.	Mrs.M.Suabathra	Assistant Professor
5.	Dr.R.Devika	Professor cum RPMO

STUDENTS LIST

S.NO	STUDENTS NAME	REG NUM	YEAR	BRANCH
1	AMIT KUMAR	3812110502	IV	Biotechnology
2	DEEPAVANI S	3812110503	IV	Biotechnology
3	HRITIKA KUMARI	3812110504	IV	Biotechnology
4	KHOT RAHUL NITIN	3812110505	IV	Biotechnology
5	KISHORE	3812110506	IV	Biotechnology
6	KOWSALYA	3812110507	IV	Biotechnology
7	MANSHI RAJ	3812110508	IV	Biotechnology
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10	SASIDHARAN A	3812110514	IV	Biotechnology
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16	ASHISH KUMAR	3812210505	III	Biotechnology
17	BABITA KUMARI	3812210506	III	Biotechnology
18	BINOD KUMAR	3812210507	III	Biotechnology
19	BIPIN KUMAR	3812210508	III	Biotechnology
20	KRISHNAN KUMAR	3812210516	III	Biotechnology
21	DHANUSRI V	3812210510	III	Biotechnology
22	GUNJAN KUMAR	3812210511	III	Biotechnology
23	JANNAT PARWEEN	3812210512	III	Biotechnology
24	K KARAN KUMAR	3812210513	III	Biotechnology
25	KALASANI GANGA RAJU	3812210514	III	Biotechnology
26	KHUSHBU PARWEEN	3812210515	III	Biotechnology
28	LOGESHWARAN V	3812210517	III	Biotechnology
29	MAHALAKSHMI B	3812210518	III	Biotechnology

30	MAJJARI UDAY KESAV	3812210519	III	Biotechnology
31	RITU RAJ	3812210522	III	Biotechnology
32	SHAIK AZEEZ UR REHAMAN	3812210523	III	Biotechnology
33	SHAIK USMAN	3812210525	III	Biotechnology
34	SURYA R	3812210527		Biotechnology
35	THAMBI PRASANNA	3812210528	III	Biotechnology
36	VAISHNAVI S	3812210530	III	Biotechnology
37	ABARNA J	3812310501	II	Biotechnology
38	ADAPA CHAYA SRI	3812310502	II	Biotechnology
39	AKSA YAMI ROY	3812310505	II	Biotechnology
40	CHENGALA HARSHITHA	3812310506	II	Biotechnology
41	KALYAMWAR HIMANSHU REDDY	3812310507	II	Biotechnology
42	KAPPELLA LAKSHMI SHIVANI	3812310508	II	Biotechnology
43	KOPPISETTI DEVI SAI PRASANNA	3812310509	II	Biotechnology
44	PODILAPU MUKTANANDA	3812310510	II	Biotechnology
45	PRIYANKA S	3812310511	II	Biotechnology
46	PULLELLI SIRI	3812310512	II	Biotechnology
47	RAGU NAGA SHANTHI PRIYA	3812310513	II	Biotechnology
48	SACHIN B	3812310514	II	Biotechnology
49	SEEMA KUMARI R	3812310515	II	Biotechnology
50	SURUTI SINGH	3812310516	II	Biotechnology
51	UGGAM SATHISH	3812310517	II	Biotechnology
52	VELANGANNI	3812310518	II	Biotechnology
53	VIGNESHWARAN R	3812310519	II	Biotechnology
54	VUMMITI BHUVANESHWAR	3812310520	II	Biotechnology
55	YENDAPALLI DURGARAM	3812310521	II	Biotechnology