



# Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)

Approved by Government of Tamil Nadu & Accredited by NAAC with A++ Grade (3<sup>rd</sup> Cycle – 3.64 CGPA)

Dr. N.G.P.-Kalapatti Road, Coimbatore-641 048, Tamil Nadu, India.

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**IIC ID: IC201912110**

## Annual Report (2023-24)

### A. About IIC Institute

#### Vision / Mission of IIC established at the Institute

##### • Vision

To cultivate a dynamic innovation ecosystem within the campus by establishing robust support mechanisms for start-ups, preparing the institution for the Atal Ranking of Institutions on Innovation Achievements Framework, and fostering collaborative efforts with peer institutions. We aim to create a vibrant environment that not only encourages creative thinking and entrepreneurial spirit but also aligns with top national standards for innovation and organizational development, ultimately positioning our campus as a leading hub for groundbreaking ideas and successful ventures.

##### • Mission

- To encourage the creative energy of our students to work on new ideas and innovation and promote them to create start-ups and entrepreneurial ventures
- To conduct various innovation and entrepreneurship-related activities
- Identify and reward innovations and share success stories
- Organize workshops/ seminars/ interactions with entrepreneurs, investors, professionals and create a mentor pool for student innovators

##### • Journey of IIC established at the Institute

The Dr. NGPASC-IIC was established in our campus in the academic year 2018-19, and secured 3.0 star (IIC 2.0) in 2019-20. The Institution actively involved and organized various activities as per IIC like calendar activities, MIC, Celebration and self-driven activities

and scored 3.5 star (IIC 3.0) rating in 2020-21, followed by 2.0 star (IIC 4.0) rating in 2021-22 and 3.0 star (IIC 5.0) rating in 2022-23. In order to motivate our students various activities related to Innovation, Startup and Entrepreneurship were organized. The effective functioning of IIC enabled the students and staff members to come forward with their novel and innovative ideas that may lead to good Start-ups in the future. During the academic year 2023-24, 35 patents and 11 copy rights were published by the faculty members.



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

S. No.	Name of the Member	Member Type (Teaching/ Nonteaching /Student/External Expert)	Key Role/Position assigned in IIC
1	Dr.R.Parameshwaran Kongu Engineering College, TBI-KEC	External Expert	Incubation Center
2	Mr. R.J.Senthil Kumar Sprout Knowledge Solution Pvt Ltd.	External Expert	Expert from nearby Industry
3	Dr.R.Ranjith Kumar Viyen Biotech LLP	External Expert	Startup/Alumni Entrepreneur

### **Brief mention of key functionaries at the IIC Institute**

S.No.	Name of the Faculty	Name of the Department	Member Type (Teaching/Non teaching /Student/Exter nal Expert)	Key Role/Position assigned in IIC
1.	Dr. K. Kalimuthu	Biotechnology	Teaching	President
2.	Dr. R. Senthilkumar	Corporate Secretaryship	Teaching	Vice-President (Internship)
3.	Dr.P. Kannan	Commerce (IT)	Teaching	Convener (Entrepreneurship)
4.	Dr. C. Kandasamy	Commerce (Finance)	Teaching	Start-up activity Coordinator
5.	Dr. K. Rajathi	Biochemistry	Teaching	Innovation activity Coordinator
6.	Dr. M. Shanmugavadiu	Biotechnology	Teaching	IPR activity Coordinator
7.	Prof. M.Sundar	Computer Technology	Teaching	Skill development Coordinator
8.	Ms.C. Karpagam	Computer Science	Teaching	Ethical Hacking Coordinator
9.	Prof. N. Kumar	Computer Science	Teaching	ARIIA Coordinator
				NIRF Coordinator

10.	Prof. U. Suji	Hospital Administration	Teaching	Member (Start-up)
11.	Dr. C. Eahambaram	Commerce CA	Teaching	Member (Innovation)
12.	Dr. D. Sivakumar	Medical Physics	Teaching	Member (Internship)
13.	Dr. T. Vasumathi	Commerce (IB)	Teaching	Member (IPR)
14.	Dr.R. Ravikumar	Chemistry	Teaching	Member (Skill development)
15.	Dr.J. Savitha	Information Technology	Teaching	Member (Entrepreneurship)
16.	Dr. S. Saranya	Computer Science	Teaching	Member (Hackathon)
17.	Dr.J. Savitha	Information Technology	Teaching	Member (IA)
18.	Dr. T. Indhumathi	Biochemistry	Teaching	Member (IA)
19.	Dr. K. Anbalagan	CLT	Teaching	Member (IA)
20.	Dr.C. Kandasamy	Commerce - Finance	Teaching	Member (IA)
21.	Dr. Radha Palaniswamy	Biotechnology	Teaching	Member (IA)
22.	Dr. S. Jagatheeswari	Corporate Secretaryship	Teaching	Member (IA)
23.	Dr.U. Suji	Hospital Administration	Teaching	Member (IA)

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

S. No.	Resources	Total Strength
1.	IIC Members	85
2.	Innovation Ambassador	14
3.	No. of Faculty Members from Portal	03
4.	Pre-Incubation Units, If any	01 (Application submitted for establishing Pre-Incubation Centre through Startup TN along with partnering Industry -Roots Group of Companies and Aerospace Materials Pvt. Ltd)
5.	Incubation Units, If any	05 1. IoT Laboratory 2. Bioscience Labs 3. Fashion Studio 4. Open-Source Software Development Lab 5. Food Production Kitchen
6.	IP Facilitation Unit, If any	Intellectual Property Rights (IPR) Cell

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

**PHYSICAL FACILITIES**

**Classrooms**

- Adequate number of classrooms (157) equipped with ICT and Wi-Fi facilities, broad staircases, corridors and elevators

**Laboratories**

- 54 Laboratories (31 domain specific and 5 research) with modern equipment for experiential learning and quality research
- DST-FIST laboratory includes equipment like gel-doc system, PCR machine, Lyophilizer, ELISA reader, UV-Spectrophotometer and Milli-Q to facilitate research
- DBT-STAR scheme provides instrument such as nano-spec, stereo microscope, inverted/phase contrast microscope with camera, ultra-scope etc. to promote science education and undergraduate research

**COMPUTING FACILITIES**

- Sixteen Computer Laboratories and One Hardware Lab with 1511 computers, licensed software supported by 100 Mbps leased line connectivity
- LAN Connectivity through Optical Fibers
- Wi-Fi with 93 access points
- YouTube Channel to facilitate anytime anywhere learning

**CENTER OF EXCELLENCE**

Center for Regional Language equipped with facilities to promote Tamil culture/ literature Center for IoT equipped with 15 computers and 15 IoT hands on training kits to enrich young talents in emerging field of IoT by offering skill training and to develop IoT products in multiple technological platforms.

## **NGPnnovation**

NGPnnovation creates an ecosystem to nurture research culture, innovation, skill enhancement, IPR generation/transfer and startup. Centre for Entrepreneurship Development motivates students to acquire entrepreneurial skills and out of box thinking in exploring business opportunities. Centre for Industry Institution Partnership initiated various elite talk forums Synergy, Bioface, Velicham (Light), Tech Bench, Vaniga Valagam (Commercial Center), and Vetri Padigal (Success) to establish mutual rewarding relationship, bridge gap between industry requirements and academic offerings. Institution Innovation Council (IIC) enables start-up support, establish ecosystem for pre- incubation of ideas through developing cognitive abilities among students.

## **LIBRARY**

- Library with a total area of 36400 sq ft. is well stocked with 48311 volumes of books with 22518 titles, 7503 online journals, research reports, periodicals and magazines
- Digital Library with 60 computers support access to online resources
- 24x7 Learning powered by remote access to OPAC, e-resources and databases like N-List, EBSCO and CMIE PROWESSIONAL
- Amenities like presentation hall, reading cabin, reference halls, book reading area, with total seating capacity of 500 are available

## **ADDITIONAL FACILITIES**

- Seminar halls, board rooms and conference centers equipped with ICT facilities
- Multicultural open arena for large gatherings
- Center for Training and Placement with discussion rooms, mock interview cabins, panel rooms and board rooms
- Exclusive space for 23 different centers which caters curricular and co-curricular activities.

## B. Highlight Achievements (Narrative/Graphical/tabular representation)

- Number and Different types of I&E and IPR activities Conducted:

S.No.	Name of the Centre	No. of activities	No. of beneficiaries
1.	Centre for Innovation	6	520
2.	Centre for Entrepreneurship	5	682
3.	Centre for Startup	6	381
4.	IPR Cell	5	365
5.	Centre for Industry Institution Partnership	4	182
6.	Coders and Hackers Club	11	615
7.	Entrepreneurship and Startup Committee	2	200
8.	Centre for Skill Development	1	95
9.	Academic Departments	22	2756
10.	ATL School Activities	4	120
	<b>Total</b>	<b>66</b>	<b>5916</b>

- No. of student's & faculty ideas generated: 46

Patent filed - 35

Copyrights granted - 11

- No. of student's & faculty Innovation/prototypes developed: 35

S.No	Name of Inventor	Name of Department	Title of the Invention	Application Number	Date
1.	Dr.Radha Palaniswamy	Biotechnology	Synthesis of Emulgel from <i>Euphorbia hirta</i> and <i>Coccinia grandis</i> leaves	202341003608	18.01.2023
2.	Dr.Radha Palaniswamy	Biotechnology	Development of polyvinyl alcohol film incorporated with <i>Tridax procumbens</i> leaf extract for food packaging application	202341010286	16.02.2023
3.	Dr.M.Poongothai	Biotechnology	Optimization of Temperature for Extraction of Protease	202341015883	10.03.2023

			from Coconut Shells ( <i>Cocos nucifera</i> )and its application in food industry.		
4.	Dr.M.Poongothai	Biotechnology	Bio-plastic production from peduncle and peel of <i>Musa paradisiaca</i> – An eco friendly approach	202341015884	10.03.2023
5.	Dr. K. Rajathi	Biochemistry	Synthesis of copper oxide nanoparticles using green tea leaf as an effective antimicrobial activity against urinary tract infection and production of organic intimate wipes as its treatment	202341015886	10.03.2023
6.	Dr.K.Rajathi	Biochemistry	Design and implementation of IOT Technology in for Accident Detection and Emergency Vehicle Tracking	202341015889	10.03.2023
7.	Dr.N. Vanitha	Information Technology	Chronic Kidney Disease Detection Using Machine Learning Techniques	202341010284	16.02.2023
8.	Dr. R.Senthil Kumar	Cognitive System	IoT Based College Bus Tracking and Surveillance	202341010285	16.02.2023
9.	Dr. S. Rekha	Information Technology	Face Recognition based Attendance System	202341010289	16.02.2023
10.	Dr. D. Sridevi	Food Science and Nutrition	A Study on Formulation and Quality Evaluation of Minor Millets Condensed Milk	202341018715	20.03.2023
11.	Dr. D. Sridevi	Food Science and Nutrition	Formulation Of Soup Strips Using Pam Vegan Soup Mix	202341019084	23.03.2023
12.	Dr. D. Sridevi	Food Science and Nutrition	Volarization of Onion Through Formulation and Production of Ready-to-use Use Cubes with the Spices	202341018716	20.03.2023
13.	Dr. D. Sridevi	Food Science and Nutrition	A study on formulation and Standardization of Spriggy papad	202341019042	23.03.2023
14.	Ms. M. Anjali	Food Science and Nutrition	Formulation and Development of ice cream incorporated with <i>Spirulina</i> and ash gourd	202441002672	23.03.2023
15.	Dr. S. Senthil Prabhu	Microbiology	Red Cabbage Extract as Natural Redox Indicator in Methyl Red, Carbohydrate Fermentation and Citrate	202341054822	16.08.2023
16.	Dr. C. Hemalatha	CLT	Formulation and Evaluation of Organic Lip Balm using	202441002670	13.01.2024

			Beta vulgaris, <i>Aloe barbadensis</i> Miller and Clit		
17.	Dr. C. Sasikala	Microbiology	Development of Paper using Bio-waste of Water Hyacinth ( <i>Eichhornia crassipes</i> )	202441002666	13.01.2024
18.	Ms. D. Jancy Rani	Food Science and Nutrition	Development of <i>Muntingia calabura</i> Candy for Hypertension Patients	202441002671	13.01.2024
19.	Dr. G. Malarvizhi	CDF	Development of Anti Pesticide finished jute apron for farmers	202441002673	13.01.2024
20.	Ms. G. Priyaalini	Food Science and Nutrition	Development of Instant Soup Mix Comprising Sprouted Wheat and <i>Trigonella foenum-graecum</i> Leaves	202441002680	13.01.2024
21.	Ms. D. Jancy Rani	Food Science and Nutrition	Formulation and Standardization of <i>Drynaria quercifolia</i> Gummies	202441007560	05.02.2024
22.	Ms. M. Rakeshwari	Food Science and Nutrition	Development and formulation of boba balls incorporated with guava leaves ( <i>Psidium guajava</i> )	202441003496	18.01.2024
23.	Dr. M. Suganthi	Chemistry	Development of Leaf curd protein incorporated peanut spread	202441007896	06.02.2024
24.	Mrs. S. Madhumitha	Food Science and Nutrition	Kombucha fermented fruit flavored Beverage	202441002676	13.01.2024
25.	Ms. M. Anjali	Food Science and Nutrition	Standardization and development of Khakhra Incorporated with resistant starch extracted from Oats	202441002672	13.01.2024
26.	Dr. J. Martin Sam Gnaraj	Physics	Fabrication of portable water filter using reduced Graphene Oxide	202441007894	06.02.2024
27.	Dr. Meera Raman	Food Science and Nutrition	Design and development of Standardized Protein rich herbal ( <i>Thymus vulgaris</i> ) Short Bread	202441002675	13.01.2024
28.	Dr. V. Kavitha	CDF	Design and Development of fire-retardant curtains using banana fiber for air-conditioned buses	202441002667	13.01.2024
29.	Ms. U. Rasikha	Food Science and Nutrition	Development and standardization of Value-Added dip from Red Banana peel powder for Obesity	202441002674	13.01.2024

30.	Dr. M. Thiruselvi	CLT	Formulation and evaluation of Poly Herbal Anti scar cream	202441003477	13.01.2024
31.	Dr. T. Indumathi	CDF	Design and development of Herbal Facial beauty mask	202441002668	13.01.2024
32.	Dr. S. Gowri	Biochemistry	Polyherbal hand cleanser and preparation method thereof	202441007895	06.02.2024
33.	Dr. K. Rajathi	Biochemistry	Development of Herbal Based Gloves Coated in cotton fabric with <i>Valeriana officinalis</i> extract with e	202441002433	12.01.2024
34.	Dr. S. Kokila	CLT	Development of Bio- anti dandruff shampoo based on herbal source <i>Mangifera indica</i> Kernel and Protei	202441002669	13.01.2024
35.	Ms. P.P. Abhirami	Food Science and Nutrition	Standardization of Tortilla chips with <i>Brassica oleracea</i> var, <i>capitata F. rubra</i> , <i>Spinacia oleracea</i>	202441002677	13.01.2024

**No. of IPs generated, published and granted: 46**

**(Patents-35: Copyrights-11)**

**Patents Published: 35**

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			Wheat and <i>Trigonella foenum-graecum</i> Leaves		
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35.	Ms. M. Anjali	Food Science and Nutrition	Formulation and Development of ice cream incorporated with Spirulina and ash gourd	202441002672	23.03.2023

## Copy Rights Granted

S.No.	Name of the Staff	Type of IPR	Work	Registration No. & Date
1.	Dr. D. Sridevi Shilp Joy (Student) Food Science and Nutrition	Copyrights	Procreation of cow and soy curd by using starter culture as fermented rice rinsed water	L-70252/2017 15.11.2017
2.	Dr. D. Sridevi Rekha Krishnan K(Student) Food Science and Nutrition	Copyrights	Unlocked pages of pcos (away from futile to fertile)	L-79221/2018 29.11.2018
3.	Prof.P.Kanneshwari S.Rohini (Student) Food Science and Nutrition	Copyrights	A study on development and organoleptic evaluation of omega-3-enriched ice cream	L-98349/2021 11.01.2021
4.	Dr. D. Sridevi S.Ruba (Student) Food Science and Nutrition	Copyrights	A study on formulation and standardization of spriggy papad	L-98338/2021 11.01.2021
5.	Prof.R.Shivani V.Sruthy (Student) Food Science and Nutrition	Copyrights	A study on development of tempeh incorporated with soybean, barley, kidney bean and analysis of its nutritive value	L-98673/2021 15.01.2021
6.	Prof. C. Abinaya C. Vidhya (Student) Food Science and Nutrition	Copyrights	A study on the development and evaluation of iron rich cookies by using drumstick and agathi leaves	L-98674/2021 15.01.2021
7.	Dr. Radha Palaniswamy	Copyrights	Insight into bioplastics - a simple guide to bioplastics	L108423/2021
8.	Dr. D. Sridevi	Copyrights	Quality evaluation of Hajod stem ( <i>Cissus quadrangularis</i> ) powder fortified in pearl millet roti	L-139213/2023 (22.12.2023)
9.	Dr. D. Sridevi	Copyrights	A study and development of nutrient-enriched syrup using watermelon seed milk	L-133721/2023 (29.09.2023)
10.	Ms.M.Anjali	Copyrights	Development and formulation of pomegranate ( <i>Punica granatum</i> ) and ridge gourd ( <i>Luffa actangula</i> ) incorporated edible spoon	L-133731/2023 (29.09.2023)
11.	Mrs. H.Kavya Jyothi	Copyrights	Formulation and development of coconut milk kefir incorporated with <i>Abutilon indicum</i>	L-136170/2023 (14.11.2023)

- **No. of Student & Faculty Start-ups/Ventures established-44**

S.No.	Name of the Student	Nature of Business	Name of the Organisation	Address of the Organisation
1.	Meenachi Sundaram S	Service Center	Sundar Browsing Center	Velampalayam, Tirupur
2.	Padmasharan S P	Garment Manufacturing	Jayam Garments	Boyampalayam, Tirupur
3.	Gokulavanan AM	Bricks Manufacturing	Sri Arul Murugan Wirecut Chamber Bricks, Anthiyur	Anthiyur, Erode District
4.	Kabil K R	Poultry Farm	KPR Poultry, Erode	Erode
5.	Kavinprasath P	Electrical Shop	Kavin Electrical Shop, Avinashi	Avinashi
6.	Krishna Kavin S	Real Estate	Sri Alakarnaachi Builders and Promotors, Annur, Coimbatore	Annur, Coimbatore
7.	Haritha T	Service Center	Ayyappa Photocopy	Union office Building, Avinashi
8.	Dhanush S	Retail Oil Sales	Aarupandi Oil Industries, Karanampatti	247/1, MGR Nagar, Karanampatti, 641401
9.	Ramprabhu R	Building Construction,	Hi-Tech Engineering Works	Opp Kumaran Womens College, Tirupur
10.	Gowtham R	Chemical Manufacturing	Gowra Chemical & Solutions, Irugur, Coimbatore	10/35, Veerappa Pillai Street, Market Road, Irugur, Coimbatore - 641103
11.	Anudeepsaran K	Construction	Sri Selva Vinayagar Hollow Blocks	Subam Traders, Vangipalayam(RS) Mangalam Road, Avinashi Taulk, Tirupur - 641663

12.	Manikandan M	Cotton Mill	Manikandan Mills	Annur Road, Valayapalayam, Moopripalayam, Kaduvettipalayam (PO), Karumathampatti, Sulur, Coimbatore - 641659
13.	Faazil R	Dying Industry	BHM Process	Thottathupalaya m, Tirupur - 641602
14.	Thiru Murugan S	Rice Industry	Thirukumaran Traders	Dhalavaipuram, Rajapalayam(TK) Virudunagar - 626122
15.	Madhan S	Service Center	Hackify Infotech private ltd	AKR bus depo opposite, Thippusultan road, Bakiyalakshmi Nagar, Sathyamangalam
16.	Sabari Saran V	Customized gifts	Vicky customized gifts	3/278, west street, Murugampalayam, Tirupur 641687
17.	Vigneshwaran.M	Photography and Videography	VW studioz	1016,ellam Tamil illam , Mangalam road, Avinashi 641654
18.	Arun Kumar M	Photography and Videography	VW studioz	1016,ellam Tamil illam , Mangalam road, Avinashi 641654
19.	Dharshini.A	3032-Polythene and Plastic Processed Products Manufacturing (Virgin Plastic)	Ram Polybag	S F No.436,L.N Samudram Village,No.1 3 A, Kamarajapur am East,Karur- 639002
20.	Uthayaragavi.A. S	Home Baking	Unique pastries	8, Thoppil nagar, kalveerampalay am post, vadavalli, Coimbatore- 641046.

21.	Subashini.D	Cake	Sugar crush cakes	17/49 Ranganatha Puram,2nd street,VOC Nagar, Tirupur - 07
22.	Arthi. K	Dry Fruits	Arthi Traders	363,Thiyagi Kumaran Strrt,Thomas Street Corner,Coimbatore - 01
23.	Gowtham.G	Waste Cotton Textile	Sri Sai Nivas Cotton Company	Door No-2-10- 800,Masrat Road, Beed Taluk,Beed- 22,Maharastra
24.	Lakshmanan.K	Garments	Maruthi Garments	2/389L,MGR Colony,Gol den Nager,Tirup ur-07
25	Kaviarasu.P	Finance	Annamalaiyar Finance	Sri Annamalai yar Finance, Bunrotti
26.	Lokesh.N	Garments	Nishanthi Textiles	Kinathukadu Thottam,Kodanag palay am Village, Palladam, Tirupur-62
27.	Hari Priya.S	Organic Fruits Stall	Hari Pazhamudhir	No.2, Aranga Nagar, Opp to Maliga Chittinad Mess,Thanner Pandal, Vilankuruchi Road,Coimbatore- 641004
28.	Lokith.S	Metal Finisher	Golden Anodizer	18 C,Kalapatti Main Road, Veeriampalaya m, Coimbatore- 641035

29.	Hari Hara Sudhan. P	Service Provider	Vel Murugan knotting service	2/472/45a, vip nagar,4th street,Attampalyam,Idu vai(po,Triupur 641687
30.	Shanmugam.S	Furniture shop	Dhavamani metals	Market street,Andimadam, Ariy alur.
31.	S Gokulkumar	Textile Company, Garments, Tirupur	Balaji Textile	Tirupur
32.	Gokul Sundramoorthi	Bore wells and logistics transportation	Annamar Groups	Tirupur
33.	S.Gokul	Steel and Cement	Premier Steels	Coimbatore
34.	Jai S Pokar	Coir Allied products, Pollachi	Navjeevan Coirs,	Pollachi
35.	Nawin	Garments Manufacturing, Tirupur	Knitwin Garments,	Tirupur
36.	Nithanya .M	Saree draping	Maanya's Drape	Tirupur
37.	Raghuraam N P	Event Management	Balu Flowers And Decors	Balu Flowers and decorations, Opp to Annur Bus stand, Annur,641653
38.	Logeshwaran M	Poultry Farming	LMP Poultry Farms	LMP farms, 2\339, Kodangipalayam, Palladam,Tiruppur
39.	Arun Kumar K	Textile Production	Karthika Textiles	34 Pillaiyar kovil street Ayyampalayam Tiruppur
40.	Mr. Gowtham R	Chemical manufacturing	Sri Durga Germicide Coimbatore	Coimbatore
41.	Ms. Subhashini D	Bakery	Sugar Crush Cakes Coimbatore	Coimbatore
42.	Ms. Subhashita J	Digital Designing	Digital Designing Coimbatore	Coimbatore
43.	Ms. Shanmuga Vagini S	Bakery	Bommi Bakery,	Annur

44.	Vignesh A	Transport	OHM Roadways	8 \42\ A2 Moolakadu thottam, Avinasi road Thennampalaya m
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- Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus: Rs. 2,85,100/-**

- Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR: Rs. 2,16,81,371/-**
- No. of Technology Transfer and Commercialization happened: 92**

S.No.	Department	Staff Name	Student Name	Project title
1.	Biotechnology	Dr.Radha Palaniswamy	Dhivya, B.	Formulation And Evaluation Of Chitosan Based Moisturizer From Shrimp Shells
2.	Biotechnology	Dr.Radha Palaniswamy	Pavithra, J.	Phytoremediation Of Textile Dye Effluent Using Ceratophyllum Demersum (Coontail)
3.	Management Studies	Dr.Rukhmathan R	Tamil Selvan M	A Study on Sericulture Awareness Among Agriculturist In Tiruppur District
4.	Commerce with Professional Accountng	Dr.S. Suguna	Harish.K	Performance Analysis Of FMCG Companies- A Comparative Study On Hindustan Unilever Limited And ITC Limited
5.	Commerce with Professional Accountng	Dr.P. Dhanya	Shanmathi.P. S	A Comparative Study On Financial Performance Of Tata Motors And Maruti Suzuki
6.	Commerce with Professional Accountng	Dr.D. Sivasakthi	Gokul. T.M	Exploring The Use Of Chatbots In Customer Service And Marketing (Special Reference To Amazon)
7.	Biotechnology	Dr.M. Shanmugavadiu	Sreelakshmi P	Green Synthesis Of Silver Nanoparticles From Moringa Oleifera Seeds And It's Application In Water Purification
8.	Biotechnology	Dr.M. Shanmugavadiu	Vasumathi S	Extraction Of Protein From Edible Insects

9.	Biotechnology	Dr Arun P	Abivarshini B	Production And Characterization Of Nanocellulose From Cow Dung
10.	Biotechnology	Dr Arun P	Rahul.R	Isolation Of LDPE Consuming Bacteria From Dump Yard Soil
11.	Information technology	Dr.N.Deepa	Ashwinth. G	Impact Of Advertising On Consumer Purchase Decision
12.	Biotechnology	Dr. M. Poongothai	Dharshini S	PHYTOREMEDIATION OF HEAVY METALS USING Chrysopogon Zizanioides
13.	Biotechnology	Dr. M. Poongothai	Deepesh vasnani	Comparative Analysis Of Microbiota Form Water And Soil Samples Collected From Sulur, Valankulam And Singanallur Lakes Of Coimbatore
14.	Commerce with Information Technology	Dr. S. Kamalaveni	Gayathri. M	Job Satisfaction Of Migrant Workers In Garment Industry
15.	Biotechnology	Mrs. C.R. Aarthi	Sasikumar P	Preparation And Characterization Of Bio Wax Film With Alocasia Macrorrhizos Leaf Extract For Packaging
16.	Accounting and Taxation	Dr.A.Anandalakshmy	Arjun B R	Consumer's Perception And Sustainability Level Of 5g Network While Using Socia
17.	Biotechnology	Dr. P. Chidambara Rajan	Naveen P	Isolation And Screening Of Lead Tolerant Micro-Organism From Industrial Soil And Its Activity Towards Lead Solubilization
18.	CS with Data Analytics	Dr.V.Sangeetha	Vijayan .N	Students Assessment Evaluation Implementing In Post Graduate Syllabe
19.	Computer Science	Dr.M.Sangeetha	Dharshana Devi R	Exam Hall Seating Arrangement System
20.	Computer Science	Dr.M.Sangeetha	Pavana A B	Vigilate For People In Animal Incursion Detection System Using AI
21.	Commerce with Professional Accountng	Dr.N.Ramya	Prasath S	Analyzing Students Awareness And Perceptions Towards Artificial Intelligence Technologies In Higher Education
	Commerce with Business	Balaji.C	Dharshini.N	Enhancing Workforce Productivity Through

22.	Analytics			Financial Rewards
23.	Artificial Intelligence and Machine Learning	Vinitha. J	Joshika K	Face-Voting Using Open CV
24.	Artificial Intelligence and Machine Learning	Dr.N.Sathya	Harish Mrithyujayan S	Personalised Assistant For Recommendation System
25.	Artificial Intelligence and Machine Learning	Mrs.T.Hashni	Hari Hara Sudan A S	Text Summarization Using Nlp
26.	Commerce with Business Process Services	Dr. S. Namasivayam	Dhanusha S	A Study On Financial Analysis Of Nestle India Limited
27.	Commerce with Business Process Services	Dr. A. Y. Kettiramalingam	Sensudhir S	A Study On Technical Analysis Of Equity Shares Of Suzlon Energy Limited
28.	Commerce with Business Process Services	Dr. J.Nithya	Sudalaikannu.S	"Performance Of Decathlon App - A Retail E - Commerce Platform Analysis"
29.	Commerce with Business Process Services	Dr. D. Sujini	Keerthana M	A Study On Consumer Perception Towards Risk In Online Shopping
30.	Commerce with Business Process Services	Mrs. R. Janani	Athavan A S	A Study On Online Consumer Reviews And Their Impact On Product Perception Towards Flipkart
31.	Computer Science	Dr.B.Sivarajani	Vijay M	Driving Drowsiness Detection System
32.	Computer Science	Dr.B.Sivarajani	Gopala Krishnan N	Android Based Parent Monitoring System For Academic Performance
33.	Commerce with International Business	Mrs.S.Priyanka	Ashwin R	Consumer Buying Behaviour Pattern Towards LULU Hypermarket And Its Impact On Local Retailers With Reference To Coimbatore City
34.	Corporate Secretaryship with Computer application	Dr.S.Renugadevi	S. K. KISHORE	A Comparative Study On Financial Performance Of Mrf Tyres And Apollo Tyres
35.	commerce with international Business	Dr.M.Kowsalya	Ms.Abarna	
36.	COMPUTER SCIENCE	Dr. R. Kalaivani		Web Enabled Facial Eye Defect Detection

37.	Commerce with International Business	Dr.T.Vasumathi	Rohit Kumar P	A Study On Awareness About Automobile Spare Parts Exports Of Selected Districts In Western Zone,Tamil Nadu.
38.	Commerce Accounting and Taxation	Mrs.T.Maheswari	M.Jayaprakash	Dynamic Changes Incurred Due To The Enactment Of Ztbt (Zero Ticket Bus Travel) Scheme In Coimbatore
39.	Commerce Accounting and Taxation	Dr.E.Karthika	S.Lakshna	A Study On Awareness, Usage And Satisfaction Level Of Sticky Notes Preferred By The Students' Community In Sticky Notes Preferred By The Students' Community In Coimbatore City
40.	Commerce Accounting and Taxation	Dr.N.Kodhai Nayaki	Swetha Ravichandran	A Study On Customer Satisfaction Of The Services Rendered By SBI With Special Reference To Coimbatore City
41.	Commerce with International Business	Dr.S.Mohanraj	Blessita A	A Study On The Perception Of Exporters On Green Engineering Goods Supply Chain Special Practices With Reference To Coimbatore District
42.	Commerce with International Business	Dr.V.Saranya	Gnana Surya V	Contemporary Problems Faced By Freight Forwarders In Using Intermodal Transportation Of Persihable Goods
43	Chemistry	Dr.R.Ravikumar	Balamurugan S	Molecular Docking And Anticancer Activity Of 1,2,3 - Triazole Linked Organic Frame Work
44.	Chemistry	Dr.M.R.Ezhilarasi	Ramya B	Isolation And Invitro Anticancer Activity Of Lepidium Sativum Leaf Extract
45.	Computer Technology	Dr.V.Manimekalai	Mukesh . M	
46.	Biotechnology	Dr R Suganthi	Akileshwaran.K	Appraisal Of Modified Chitosan/Shellac Based Composite Fabric Containing Latic Acid In Active Food Packaging
47.	Biotechnology	Dr R Suganthi	Shanmuga Priya C	Elucidation Of Antioxidant Potential And Sun Protection Factor Of Melanin Extracted From Black Garlic
48.	Chemistry	Dr.R.Ravikumar	Sangeerthan S N	Green Synthesis Of Nano Composites

49.	Commerce with Business Analytics	Dr.M.S.Ranjith Kumar	T.Tarana	Problems And Prospective Of Women Entrepreneurs In Msme's-An Empirical Study In Coimbatore District
50.	Biotechnology	Dr.S.Saranya	Savitha M	Treatment Of Textile Dye Effluents By Microrganism
51.	Biotechnology	Dr.S.Saranya	Yogapriya S	Molecular Docking Analysis Of Annona Muricata Against Diabetes
52.	Chemistry	Dr.M.R.Ezhilarasi	Preethi J S	Isolation And Invitro Activity Of Psidium Guajava Leaf Extrat
53.	Commerce with Information Technology	Dr. P. Kannan	GOKUL G	AI In Virtual Shopping Assistant
54.	Commerce with Information Technology	D Malarvizhi	R B Harini	A Study On Online Learning In Byju'sapp Among The Students
55.	Artificial Intelligence and Machine Learning	Mrs. P. Shanthi	Jey Prabu S	CNN And LSTM For Image Captioning And Decoding
56.	Commerce with International Business	Dr.M.Manjula	Mohammed Aslam	Electric Two Wheelers In Coimbatore City: Analysis Of Environmental Safety And Mobility Impact.
57.	Commerce with International Business	Dr.N.Chandrakala	Kavin Kumar.S	A Study On The Perception Of Textile Exporters On Green Supply Chain Management Practices In Tiruppur District
58.	Information Technology	Dr.B.M.Rajesh	Vaishnavidevi M	Women Safety Android Application For Pcod
59.	Accounting and Taxation	Dr.T.Snekalatha	Basil P Sunny	A Study On Patient's Perception Towards Service Quality Of Government Hospital In Coimbatore City
60.	Biochemistry	Mrs.G.Lalitha	Sneha suresh	Docking Based Virtual Screening Of Phytochemical, Synthetic And Marine Compounds Activity On The SARS Cov2 Main Protease
61.	Commerce with Information Technology	Mrs.R.Anitha	Dharshini.p	A Study On Customer Satisfaction And Implementation Of GST Among Retailers.
62.	Chemistry	Dr. R. Rajkumar	S. Selva Prasanna	One Pot Synthesis Of Benzo [1,8] Naphthyridines
63.	Chemistry	Dr. R. Rajkumar	S. Hariharasudhan	Three Component Synthesis Of Novel Benzo(1,8) Naphthyridines
64.	Information Technology	Dr.J.Savitha	K.Atharsh	Design And Development Of Reinforcement Learning

65.	Information Technology	Dr.R.Praba	M.Sedhuvignesh	Vertex Notifier : Academic Scheduler & Event Notifier
66.	Commerce with Information Technology	Dr.J.Lilly	R.Nivetha	A Study On Awareness Towards Financial Inclusion Among Rural Areas With Special Reference To Coimbatore
70.	Chemistry	Dr. M. Mohanraj	Dharani P.V	Investigation Of Magnetic And Electrical Properties Of Poly(O-Phenyldiamine)/ Fe <sub>2</sub> O <sub>4</sub> Substituted Nanocomposites
71.	Chemistry	Dr. M. Mohanraj	Mohan V	Study Of Magnetic And Electrical Properties Of Poly (O-Phenyldiamine)/ Fe <sub>2</sub> O <sub>4</sub> Substituted Nanocomposites
72.	Chemistry	Dr.M.Dinesh kumar	Vishnu S	Fabrication Of DSSC Using Chemically Tuned Cu-Ag Nanocomposites Prepared By Using Nerium Indicum
73.	Food and Nutrition	S. Madumitha	Chanchal	Formulation And Standardization Of Bittergourd Powder Incorporated Rusk
74.	Food Science and Nutrition	S. Madumitha	Abinaya K	Formulation And Evaluation Of Edible Spoon Incorporated With Fruit Peel
75.	Chemistry	Dr.P.Kavitha	Hemanth S	Cu, Fe, Mn DOPED Nio Nanoparticles: Facile Synthesis, Characterization And Photo Catalytic Degradation Of Methylene Blue Dye
76.	Food Science and Nutrition	Ms. Priyaalini G	Gomathy S	Development Of Value Added Products From Fenugreek Leaves
77.	Food and Nutrition	Ms. Priyaalini G	Malavika	Formulation Of Mixed Fruit Leather Incorporated Jackfruit Seed Powder
78.	Chemistry	Dr.P. Kavitha	Sowmitha S	Fabrication Of Herbal Medicine Loaded Smart Biodegradable Bandage Material
79.	Information Technology	Dr.K.Santhi	Asvitha.E	Website For Bus Pass Approval And Renewal System
80.	Information Technology	Dr.A. Adhiselvam	Dharshini B	Gram Panchayat Automation System
	Chemistry	Dr.R.Menaka	Rithuparna PV	Developing Chitosan-Polyvinyl Alcohol Ph-Indicating Films With <i>Hibiscus Rosa-Sinesis</i> For Real-Time Monitoring Of

81.				Food Freshness
82.	Biochemistry	Dr.K. Rajathi	Akalya.R	Formulation Of Herbal Based Tooth Gel For The Management Of Gum Swelling Using The Root Of Achyranthes Aspera
83.		Abhirami.P. P		Development Of Wine From The Fermented Mixed Fruit Peel By <i>Saccharomyces Cerevisiae</i>
84.	Biochemistry	Dr. D. Pradeepa	Harriet V	Nutrient-Rich Chocolate: An Innovative Blend Of Millets, Greens, And Date Seed Sweetener
85.	Biochemistry	Dr. D. Pradeepa	Muskan Kumari	Formulation And Evaluation of Mouth Wash Prepared from <i>Punica Granatum</i> (POMEGRANATE) Flower To Treat Mouth Ulcer
86.	Biochemistry	Dr.T.Indhumathi	Karthika Nandhini.S	Purification Of Water By Filtration Bed Using Biochar From Jackfruit Seed And Peel
87.	Biochemistry	Dr.T.Indhumathi	Suvetha.S	Green Nanoremediation: Harnessing Iron Oxide Nanoparticles For Sustainable Soil Cleanup Of Heavy Metals
88.	Biochemistry	Dr.S.Gowri	Ramanathan.B	Formulation and Evaluation of polyherbal hair serum
89.	Biochemistry	Mrs.S.Divyapriya	G.Sivasakthi	Antioxidant And Antibacterial Activity On <i>Citrus Aurantium</i> L.Fruit Peel As Enhanced Facial Serum
90.	Biochemistry	Dr. K. Swathi	Janakiraman J	Utilization Of Spent Lithium Batteries For Eco-Friendly Fertilizer Production
91.	Biochemistry	Dr.K.Rajathi	Jananipriya.T	Rash-Free Compostable Eco-Friendly Disposable Natural Nano Colorant Diapers For Menopause Women
92.	Biochemistry	Dr.N.Kannikaparameswari	Susendren R	Antioxidant Activity Of <i>Senna Auriculata</i> L. Flower Extract & Formulation Of Face Serum

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

**[Profile of few faculties with 2-3 line of their achievements]**

**Dr. K. Rajathi**, serving as the Coordinator of the Center for Innovation and Innovation Ambassador has made significant contributions in promoting innovation and entrepreneurship. As the ATL School In-Charge of Lions Matriculation Higher Secondary School, Aval Poondurai, and Mentor for ATL Thinkerpreneur 2024, she has been instrumental in shaping young minds. Through her role in the Institution Innovation Council (IIC), she has conducted numerous sessions on innovation, IPR, and entrepreneurship, both on and off campus. Dr. Rajathi has filed three patents, secured eleven project grants, and organized various activities aligned with the Ministry of Education's IIC calendar. She actively participates in workshops, seminars, and conferences, and has consistently brought industry leaders, including investors and CEOs, to engage with students and faculty.

**Dr.M. Shanmugavadi**, Professor, Department of Biotechnology and the IPR Cell coordinator acted as resource person in Seminar on “Ethics, Intellectual Property Rights & Good Clinical Practice” organized by IQAC cell, KMCH College of Nursing, Coimbatore, 01-Mar-2024 and International Conference on “Artificial Intelligence is the New Frontier of Digital Technology and Patent” organized by IQAC Cell and Department of Computer Science, Theivanai Ammal College for Women, Villupuram, 16-Mar-2024. She also served as a resource person in Hands-on Training on “Patent Filing” on World Intellectual Property Day-2024 at KMCH College of Nursing, Coimbatore, 26.04.2024. Under ATAL School Linkage, she conducted an orientation session and training & bootcamp at Shree Vidyalaya Matriculation Higher Secondary School, Gobichettipalayam on 18.06.2024 and 01.08.2024 respectively.

**Dr. Radha Palaniswamy**, with a passion for innovations and challenges, have found avenues to learn the skillful techniques leading to startup and entrepreneurship. I have been an active Innovation ambassador making contributions in evaluation of innovative projects leading to the development of products or process. I have delivered lectures on entrepreneurship skills in students and acted as a co-ordinator for Entrepreneur Development Cell. Several industrial visits were organized for students seeking interest in the domain of startups.

**Prof. N. Kumar**, being an academician in the field of computer science, writing algorithms and programming has been my passion. Trained several students to create app and develop websites for organizations which was taken up the students as their career and turned out to be entrepreneurs even before graduating from college. Delivered many lectures and have been a chair person in sessions pertaining to startups and self-employment.

**Dr.T.Indhumathi**, Innovation Ambassador, Dr.N.G. P Arts and Science College, Coimbatore has successfully completed AICTE Evaluated 2-week patent course and participated in innovation-based conferences and workshops. My mentees from UG biochemistry department participated in Smart India Hackathon and also posted my innovative ideas in Yukti Portal during this academic year.

### **List of participation/awards received by faculty for the academic year 2023-2024**

#### **1.IIC Regional Meet 2023**

Dr. K. Rajathi – Coordinator, Center for Innovation and Dr. V. Sengani – Coordinator, Center for Entrepreneur and Start-Up attended “Institution’s Innovation Council REGIONAL MEET” in P K Das Auditorium, Nehru Institute of Technology, Thirumalayampalayam, Coimbatore in collaboration with MoE Innovation Cell & All India Council for Technical Education, on 4<sup>th</sup> Dec 2023.



#### **2.Promoting Innovation and Entrepreneurship in HEIs**

Dr. K. Rajathi – Center for Innovation, Dr. V. Sengani – Center for Entrepreneur and Start-Up and Dr. M. Shanmugavadi – IPR Cell participated one day programme on Promoting Innovation and Entrepreneurship in HEIs organized by Association of Self-Financing Arts, Science & Management Colleges of Tamilnadu at PSGR Krishnammal College for Women on 30.12.2023.



### 3. Participation of Faculty in Workshop/Seminar on Innovations, IPR and Entrepreneurship

The staff and students participated in various workshops/seminars/conferences/FDPs about innovation/IPR and entrepreneurship



**Research grants received by Faculty from various funding agencies for the Academic Year 2023-2024**

S.No.	Name of the Principal Investigator	Department	Funding Agency	Amount Sanctioned	Duration of the Project	Title of the Project
1.	Dr. D. Sridevi	Food Science and Nutrition	ICSSR F.No. 02/15/2022-23/ ICSSR/RP/MN/GEN	500000/-	March 2023 - Feb 2024	Impact of Creating Awareness on First 1000 Days of Life Among Prenatal Tribal Women”
2.	Dr. C. M. Kanchana Minor Research Project	English	ICSSR F.No. 02/82/2022-23/ICSSR/RP/MN/SC	197,850/-	March 2023 - Feb 2024	Amelioration of Educational Cognizance amongst Tribal Women in Annakatti
3.	Dr. R. Menaka Minor Research Project	Chemistry	ICSSR F.No. 02/69/2022-23/RP/MN	367500/-	March 2023 - Feb 2024	An Exploratory Study into Public Awareness of the Environmental Impact of Menstrual Products Waste Disposal in the Coimbatore District
4.	Dr. M. Kalimuthu Short-term empirical research project	Commerce (PA)	ICSSR F.No. 274/CRP-2023-1060/NEP20/SCD	1000000/-	Sep 2023 - Mar 2024	NEP-2020: Opportunities and Challenges of HEIs in Achieving Gross Enrolment Ratio (GER) in Creating Human Resources to the Paradigm Industry Requirements: A Study of Selected HEIs of Karnataka and Madhya Pradesh
5.	Dr. S. Suguna Short-term empirical research project	Commerce (PA)	ICSSR F.No. 126/CIS-2023-812/PMFBY/SCD	390000/-	Oct 2023 - Mar 2024	Recognition and Practice of Pradhan Mantri Fasal Bima Yojana (PMFBY) among

						Farmers from Western Zone of Tamil Nadu - A Diagnostic Approach
6.	Dr. S. Renugadevi Short-term empirical research project	Commerce	ICSSR F.No. 165/CISP-2023-738/APY/SCD	400000/-	Sep 2023 - Mar 2024	Attitude towards Atal Pension Yojana Scheme among Unorganised Sector Workers in Coimbatore District
7.	Dr. R. Madhula Major Project	MSW and Commerce (A&T)	ICSSR F.No. 02/142/2022-OBC/TS/RP	800000/-	Sep 2023 - Oct 2025	Cultural Characteristics and Distribution of Particularly Vulnerable Tribal Groups (PVTGs) in Tamil Nadu
		<b>Total</b>		<b>2855350/-</b>		
8.	Dr.S.S. Sudha Coordinator	DBT STAR Status College Scheme	DBT HRD-11012/6/2023-HRD-DBT	12595438/-	November 2023- Oct.2025	Improving critical thinking and 'hands-on' experimental work at undergraduate (college) level in sciences
9.	Dr.S.S. Sudha Coordinator	DBT STAR College Scheme Additional Dept.	DBT HRD-11011/29/2022-HRD-DBT	62,30583/-	January 2023 to December 2025	Improving critical thinking and 'hands-on' experimental work at undergraduate (college) level in sciences
		<b>Total</b>		<b>2,16,81,371/-</b>		

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

S.No	Name of Inventor	Name of Department	Title of the Invention
1	Dr. Radha Palaniswamy	Biotechnology	Synthesis of Emulgel from <i>Euphorbia hirta</i> and <i>Coccinia grandis</i> leaves

2	Dr. Radha Palaniswamy	Biotechnology	Development of polyvinyl alcohol film incorporated with <i>Tridax procumbens</i> leaf extract for food packaging application
3	Dr.M. Poongothai	Biotechnology	Optimization of Temperature for Extraction of Protease from Coconut Shells ( <i>Cocos nucifera</i> )and its application in food industry.
4	Dr.M. Poongothai	Biotechnology	Bio-plastic production from peduncle and peel of <i>Musa paradisiaca</i> – An eco friendly approach
5	Dr. K. Rajathi	Biochemistry	Synthesis of copper oxide nanoparticles using green tea leaf as an effective antimicrobial activity against urinary tract infection and production of organic intimate wipes as its treatment
6	Dr.K. Rajathi	Biochemistry	Design and implementation of IOT Technology in for Accident Detection and Emergency Vehicle Tracking
7	Dr.N. Vanitha	Information Technology	Chronic Kidney Disease Detection Using Machine Learning Techniques
8	Dr. R.Senthil Kumar	Cognitive System	IoT Based College Bus Tracking and Surveillance
9	Dr. S. Rekha	Information Technology	Face Recognition based Attendance System
10	Dr.D.Sridevi	Food Science and Nutrition	A Study on Formulation and Quality Evaluation of Minor Millets Condensed Milk
11	Dr.D.Sridevi	Food Science and Nutrition	Formulation Of Soup Strips Using Pam Vegan Soup Mix
12	Dr. D. Sridevi	Food Science and Nutrition	Volarization of Onion Through Formulation and Production of Ready to Use Cubes with the Spices
13	Dr. D. Sridevi	Food Science and Nutrition	A study on formulation and Standardization of Spriggy papad
14	Ms.M. Anjali	Food Science and Nutrition	Formulation and Development of ice cream incorporated with spirulina and ash gourd



IOT Technology for Accident Detection and Emergency Vehicle Tracking



*CuNPs infused wipes*



Gummies



Resistant Starch Khakra

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

DrNGPASC feels proud to produce entrepreneurs with small start-ups. During the course of the programme, students are well equipped with talents to make themselves more independent as entrepreneurs. The Institution Innovation Council also holds equal responsibility in promoting the interest of such students.

S.No	Name	Name of the Organization /Company	GST No.	Udyog Aadhar No.	Nature of Business	Address of organization/ Company
1.	Meenachi Sundaram S	Sundar Browsing Center	-	UDYAM -TN-28-0024056	Service Center	Velampalayam, Tirupur
2.	Padmasharan S P	Jayam Garments	33GBCP P6863D1 ZK	-	Garment Manufacturing	Boyampalayam, Tirupur

3.	Haritha T	Ayyappa Xerox	-	UDYAM -TN-28-0089206	Service Center	Union Office Building, Avinashi
4.	Dhanush S	Aarupandi Oil Industries, Karanampatti	33BJVP P8905Q1 Z3		Retail Oil Sales	247/1, MGR Nagar, Karanampatti, 641401
5.	Gowtham R	Gowra Chemical & Solutions,Irugur,Coimbatore	-	UDYAM -TN-03-0130051	Chemical Manufacturing	10/35,Veerappa Pillai Street,Market Road,Irugur,Coimbatore - 641103
6.	Anudeepsaran K	Sri Selva Vinayagar Hollow Blocks	33DBSP K5441K 1Z9		Construction	Subam Traders, Vangipalayam(R S) Mangalam Road, Avinashi Taulk, Tirupur - 641663
7.	Manikandan M	Manikandan Mills	33BMK PA8475 L1Z0		Cotton Mill	Annur Road, Valayapalayam, Moopripalayam, Kaduvettipalayam (PO), Karumathampatti, Sulur, Coimbatore - 641659
8.	Faazil R	BHM Process	33AAGS B5846F1 ZM	TN2800 49376	Dying Industry	Thottathupalayam , Tirupur - 641602
9.	Arthi. K	Arthi Traders	33NMP K7567P1 Z0	UDYAM -TN-03-0115188	Dry Fruits,Pojoja Items and Country drugs	363, Thiyagi Kumaran Street,Thomas Street Corner,Coimbatore - 01
10.	Gowtham.G	Sri Sai Nivas Cotton Company	27ACUF S0160P1 ZE	-	Waste Cotton Textile	Door No-2-10-800, Masrat Road, Beed Taluk, Beed-22, Maharashtra

11.	Lokesh.N	Nishanthi Textiles	-	UDYAM -TN-28- 0033927	Garment s	Kinathukadu Thottam,Kodanag palayam Village, Palladam, Tirupur-62
12.	Lokith.S	Golden Anodizer	33AETP T9564R2 Z1	-	Metal Finisher	18 C,Kalapatti Main Road, Veeriampalayam, Coimbatore- 641035

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

**1. Development and Evaluation of Novel Film Wound Dressing Loaded with Herbal Extract of Illicium verum**

**Inventors Name: Ms. Preethi and Dr.N. Kannikaparameswari**

The invention introduces herbal film wound dressings that incorporate an extract derived from *Illicium verum*, a plant known for its medicinal properties. The wound healing potential of *Illicium verum* extract has been scientifically validated through an in vitro wound scratch assay, which is a reliable method for studying cellular migration and wound repair. This assay demonstrates the extract's efficacy in promoting the closure of wounds, indicating its potential use in healing applications.

The preparation of the film involves combining polyvinyl alcohol (PVA), water, *Illicium verum* extract, and citric acid, resulting in a flexible and durable wound dressing material. Polyvinyl alcohol provides the structural matrix for the film, while citric acid plays a role in stabilizing the formulation. The herbal extract is the active component responsible for the biological benefits.

Additionally, the film wound dressing exhibits significant antimicrobial activity, effectively inhibiting the growth of microorganisms commonly found in wound infections. This antimicrobial property further enhances the dressing's utility, offering dual benefits of accelerating wound healing and preventing infection. As such, the invention represents a valuable advancement in natural wound care solutions, integrating traditional herbal medicine with modern biopolymer technology.



**Biofilm**

## **2. Development of Herbal Based Gloves Coated in cotton fabric with *Valeriana officinalis* extract with enhanced UPF and Antifungal activity**

**Inventors Name: Dr.K.Rajathi and Mrs.Vijayalakshmi.R**

The development of herbal based gloves incorporated with valerian mainly focuses on two important aspects: Ultraviolet Protection Factor (UPF) enhancement and antifungal activity. The experimental methodology involved in the extraction of valerian compounds and their subsequent incorporation into the glove material through a coating process. The coated gloves were subjected to rigorous testing to evaluate their UPF performance. Additionally, the antifungal activity of the gloves were examined by using *C. albicans* and *C.tropicalis* through well diffusion method. The results demonstrated that valerian-based coating significantly increased the UPF of the gloves which provides enhanced protection against harmful UVR and exhibit substantial antifungal activity by inhibiting the growth of various fungal strains. The study holds considerable significance for various industrial applications including healthcare and agriculture, where the demand for effective UV protection fabrics is paramount. This study highlights the successful development of herbal-based gloves with valerian, showcasing their improved UPF performance and notable antifungal activity.



### **UV Protection glove coated with *Valeriana officinalis***

#### **3. Synthesis of copper oxide nanoparticles using green tea leaf as an effective antimicrobial activity against urinary tract infection and production of organic intimate wipes as its treatment**

**Inventors Name: Dr.K. Rajathi and Annie Cindrella R**

The prepared wet wipes showed good antimicrobial effects against not only the gram-negative bacteria *E. coli* which is the major causative agent of UTI, but also revealed its activity against certain types of gram-positive bacteria like *Staphylococcus aureus* and other *S. mutants*. Hence the intimate wipes are extremely safer and easier to use and is also ecofriendly due to the presence of various types of organic ingredients in it. The organic intimate wipes can be used by both genders, not more than two wipes should be used in a day, as there may be elevations in the pH levels that would cause severe effects and also because the intimate areas are too sensitive, further the usage of vitamin E oil is common in almost all the wet wipes due to its antiseptic property and hence undoubtedly the product is completely organic.



***CuNPs infused wipes***

#### **4. Moisturizer synthesized from purified chitosan from Shrimp shells**

**Inventor: Dr. Radha Palanisamy, Professor, Department of Biotechnology**

The antibacterial activity, anti-oxidant activity to detect free radicals and FTIR to identify the functional group in the sample of chitosan derived from shrimp shells was done. The formulated cream could alleviate dry skin symptoms and restore a normal function to the stratum corneum. Results indicated that the moisturizer had a good potential as an effective skin moisturizing agent enhancer, antioxidant properties and antimicrobial properties.



## 5. AI based Chlorophyll determination device in leaf tissues

Design Number	421987-001
Class	24-02
1.Dr. N.G.P. Arts and Science College Dr. N.G.P. Arts and Science College, Dr. N.G.P. Nagar, Kalapatti Road, Coimbatore, Tamil Nadu – 641048, India 2. Dr. M.N.Kathiravan Professor, Department of Biotechnology, Dr. N.G.P. Arts and Science College,Dr. N.G.P. Nagar, Kalapatti Road, Coimbatore, Tamil Nadu – 641048, India 3. Dr. P. Arun Professor, Department of Biotechnology, Dr. N.G.P. Arts and Science College, Dr. N.G.P. Nagar, Kalapatti Road, Coimbatore, Tamil Nadu – 641048, India 4. Dr.M.Shanmugavadivu Associate Professor, Department of Biotechnology, Dr. N.G.P. Arts and Science College, Dr. N.G.P. Nagar, Kalapatti Road, Coimbatore, Tamil Nadu – 641048, India , et al.	
Date of Registration	02/07/2024
Title	AI BASED CHLOROPHYLL DETERMINATION DEVICE IN LEAF TISSUES
Priority NA	

## H. Participation of IIC-institute in various programs of Central and State Govt. Highlighting specially for the schemes or programs

- ARIIA – participation and Rank

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National Institutional Ranking Framework  
Ministry of Education  
Government of India



Home Ranking List of Participating Institutions

**India Rankings 2024: College**

Rank-band: 101-150 | Rank-band: 151-200 | Rank-band: 201-300

Show	100	entries					
Institute ID	Name	City	State	Score	Rank		
IR-C-C-41054	Dr. N. G. P. Arts and Science College	More Details    	Coimbatore	Tamil Nadu	53.93	75	
IR-C-C-41042	Dr. S. N. S. Rajalakshmi College of Arts and Science	More Details    	Coimbatore	Tamil Nadu	52.08	94	

Showing 1 to 2 of 2 entries (filtered from 100 total entries)

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- NISP Adoption status - Trained Faculty, Policy Formulation, Policy Implementation

**Yes**

- Smart India Hackathon etc.

### **Participation list**

S.No	Team Name	Team Leader	Problem ID
1	Bioblazzers	S. Kavin Kumar	SIH 1532
2	Tamarind Titans	R.P Archana	SIH 1536
3	Silent scars	R. Adwaith	SIH 1601
4	FoodQAI	R. Gowthami	SIH 1596
5	IT Dev's	Suriyaprasath. S	SIH 1648
6	Bionova	P. Mukil	SIH 1555
7	Agro Innovators	Kishore Kumar R	SIH 1638
8	InnovateX	Finny Johnson	SIH 1683
9	CobraTech	Jenisha Balan B	SIH 1599
10	Effluent Energizers	MonishKumar R	SIH 1532
11	Vet Alert	B. Karthika	SIH 1673
12	Green Vision Biotech	G. Monisha	SIH 1731
13	Byte Forces	R. Sandhiya	SIH 1612
14	Cognitive Revelation	Abhiinanth G	SIH 1692
15	Stoic Minds	Shanmugam Vasantha Rupan	SIH 1640
16	Pixelates	AjayKarthik D	SIH 1604
17	Eco Enforces	P. Dharun	SIH 1532
18	Hackhive	Aswin N	SIH 1605
19	Energy On	T. Sangavi	SIH 1539
20	Tech Bytes	Tharani R	SIH 1631
21	Sym	Mohana Priya S V	SIH 1596
22	Agro Techies	M.M Sharaj	SIH 1647
23	Cosmos	Bowmiya R V	SIH 1732
24	Agri Friend	M. Nandika	SIH 1639
25	Agri Tech	M.Punitha Princy	SIH 1638

26	Unique Crew	Nivedhitha Vinod	SIH 1689
27	Heal Tech	P. Vimal	SIH 1620
28	BioWizard	Hasika	SIH 1575
29	Code Ninja	Vasanth S B	SIH 1734
30	Tech Titans	Aarthik Bala A P	SIH 1597
31	Team IT	Rakshun Selva S K	SIH 1666
32	Decoders	Vasudev V	SIH 1673
33	Code Cultivators	S. Varun	SIH 1637
34	Connect Crew	Meianbu B	SIH
35	United Power	Vimal C	SIH 1738
36	The Initiators	Baskar G	SIH 1698
37	Black crews	Sruthi B	SIH 1527
38	Let's Be the change	Kavin Duraisamy	SIH 1638

## **F. Detail of Social Media & Connections of IIC institute**

Website : <https://www.drngpasc.ac.in/>

Facebook : <https://www.facebook.com/kmcret.drngpasc/>

Youtube : <https://www.youtube.com/@drngpasc2023?app=desktop>

Twitter : [https://twitter.com/i/flow/login?redirect\\_after\\_login=%2FDrNGPASC\\_KMCRET](https://twitter.com/i/flow/login?redirect_after_login=%2FDrNGPASC_KMCRET)

## **G. Testimonials from IIC members and external about IIC institute and IIC of MoE's Innovation Cell**



5<sup>th</sup> September 2024

Greetings from Sprout.

This is to bring to your kind notice that we are very happy with our engagement with Dr. NGP Arts & Science College, Coimbatore. We are impressed with the progressive steps taken by the college in association with various partners and industry associations to create a very positive environment for the students to shape their future careers in employment / entrepreneurship.

What stands out is the college's openness to embrace new ideas proposed by partners and the approach to work out a win – win scenarios for all the stake holders.

We are very excited to continue & grow our relationship with Dr. NGP Arts & Science College and contribute to the progress of the students.

Best Regards

R.J.Senthil Kumar  
Director  
Sprout Knowledge Solutions Pvt Ltd





Registered under Indian Trust Act 1882 - B/2013, dated 21.10.2013

## The Nilgiris Education And Research Foundation

10.19.2024  
The Nilgiris

**Dr. Ranjithkumar Rajamani, Ph.D., FERA.,**

As an external member of the Institution Innovation Council at Dr.N.G.P Arts and Science College, I have had the privilege to observe and contribute to a vibrant culture of innovation and entrepreneurship. The council's commitment to fostering creative thinking, nurturing innovative ideas, and guiding young minds toward practical solutions for societal challenges is truly commendable.

The collaborative efforts between faculty, students, and external experts have resulted in a dynamic ecosystem where innovation thrives. I have witnessed firsthand the enthusiasm with which students participate in various initiatives, from idea-pitching sessions to workshops on the latest technologies. The IIC's role in organizing these programs ensures that budding entrepreneurs receive the guidance and mentorship they need to succeed.

Moreover, the council's focus on industry-academia collaboration has opened doors for students to gain real-world exposure, making them industry-ready. It has been a rewarding experience for me to be part of such a forward-thinking institution, and I am confident that the IIC will continue to be a driving force in shaping future innovators and leaders.

For The NEAR Foundation

(Dr. RANJITHKUMAR R)

Mentor -The Future Founders Co. INDIA Sustainability Startathon - 2024 (ISS-2024)  
International Research Fellow, INTI International University, Malaysia  
International Technical Committee Member - International Inter Varsity Innovation Challenge - 2024 (IVIC 2024)  
CSFN Enterprise India - Global Sustainable Futures Progress through Partnerships Network, United Kingdom

[info@thenearfoundation.org](mailto:info@thenearfoundation.org) | [www.thenearfoundation.org](http://www.thenearfoundation.org)

## H. Images



**Training and Boot Camp session in ATL School-Lion's Matriculation Higher Secondary School,Aval Poondurai**

**Training and Boot Camp session in ATL School- Shree Vidhyalaya Matriculation Higher Secondary School**



**Incubation Center Visit at Eswar College of Engineering Coimbatore on 05.01.2024**



**Visit to Incubation Center at Kongu Engineering College, Erode on 13.03.2024**



**Intellectual Property Rights day Celebration- Guest Lecture on “Importance of IP in India” on 23.04.2024**



**IIC student members of Dr. N.G.P Arts and Science College Coimbatore with Eco green craft manufacturers**



**Workshop on “Start- up and Innovation Ideas on Occasion of Celebrating the National Start- up day” on 03.04.2024**



**One Day Start -up Mentoring Session on “Lean Start-up & Minimum Viable Product / Business” on 15th July 2024**



**Dr.K. SenthilKumar, Head, Entrepreneurship Development & Incubation, Atal Incubation Centre – NIFTTEA**



**Young Entrepreneurs Product Pitch Competition  
January 10, 2024**



**Ms. Uma Maheswari, Co-Founder Global Education-After School Activity Coimbatore interacted with the students on 05.08.2024**



**Workshop on “Prototype/ Process Design and Development” by Mr. Naveen Manickam, Founder, NM Academia, Coimbatore on 21.03.2024**

## I. Contact

<b>Dr. K. Ramamurthi</b> Principal Dr.N.G.P.Arts and Science College Coimbatore. Email: <a href="mailto:principal@drngpasc.ac.in">principal@drngpasc.ac.in</a> Mobile: 9486262305	<b>Dr. K. Kalimuthu</b> Dean- Research & Development Dr.N.G.P. Arts and Science College Coimbatore. Email: <a href="mailto:deanresearch@drngpasc.ac.in">deanresearch@drngpasc.ac.in</a> Mobile: 98433 66622
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