

### 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)  
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**IIC ID: IC201912110**

## Annual Report (2022-23)

### A. About IIC Institute

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

#### **Vision**

- To Promote innovation eco-system in the campus
- To initiate Start-up supporting mechanism
- To prepare institute for Atal Ranking of Institutions on Innovation Achievements Framework
- To collaborate with peers in the development of the organization

#### **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. Our Institution actively involved and

organized various IIC calendar, MIC and self-driven activities and scored 3.5 star (IIC 3.0) rating in 2020-21 and followed by 2.0 star (IIC 4.0) rating in 2021-22. Further, in order to motivate our students various sessions related to Innovation, Startup and Entrepreneurship were organized. Through IIC, now students and staff members are coming forward with their novel innovative ideas that may lead to the good Start-ups in the future. Our faculty members also filed 13 patents and 9 copy rights.



- **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. K. Suresh Kumar PSG-STEP Coimbatore	External Expert	Incubation Center
2	Mr. M. Ganesan Alchem Diagnostics	External Expert	Expert from nearby Industry

	Coimbatore		
3	Mr. K. Balamurugan ELITE CAR SPA Equipments Coimbatore	External Expert	Startup/Alumni Entrepreneur

## B. Brief mention of key functionaries at the IIC Institute

S. No.	Name of the Member	Member Type (Teaching/Nonteaching /Student/External Expert)	Key Role/Position assigned in IIC
1	Dr. K.Kalimuthu Dean – R& D	Teaching	President – IIC
2	Dr. S. Mohan Professor and Head Department of Management Studies	Teaching	Vice President Co-ordinator Center for Industry Institution Partnership
3	Dr.M.Kalimuthu Professor Department of Commerce (PA)	Teaching	Convener Co-ordinator Center for Entrepreneurship Development
4	Prof. K.Gomathy Assistant Professor Department of Computer Applications	Teaching	Co-ordinator Center for Entrepreneurship Development
5	Dr. V. Pream Sudha Professor Department of CS with Data Analytics	Teaching	Co-ordinator Center for Innovation
6	Dr. K. Rajathi Professor Department of Biochemistry	Teaching	Co-ordinator Center for Innovation
7	Dr. S. Mohanraj Associate Professor and Head Department of International Business	Teaching	Co-ordinator Center for Start-up
8	Prof. U. Suji Assistant Professor Department of Hospital Administration	Teaching	Co-ordinator Center for Start-up
9	Dr. M. Shanmugavadivu Associate Professor Department of Biotechnology	Teaching	Co-ordinator Center for Intellectual Property Rights
10	Dr. T. Vasumathi Associate Professor	Teaching	Co-ordinator Center for Intellectual

	Department of International Business		Property Rights
11	Dr. K. Shanti Professor Department of IT	Teaching	Co-ordinator Center for Industry Institution Partnership
12	Dr. V. Uma Professor and Head Department of Hospital Administration	Teaching	Co-ordinator Center for Industry Institution Partnership
13	Prof. T. R Anand Assistant Professor Department of Computer Technology	Teaching	Co-ordinator Center for Skill Development
14	Dr. S. Eswaramoorthi Professor Department of Mathematics	Teaching	Co-ordinator Center for Skill Development
15	Prof. S. Poorna Senthilkumar, Assistant Professor Department of Computer Applications	Teaching	Co-ordinator Ethical Hacking

### C. 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
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

**D. 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 facilitates to support skill enhancement, entrepreneurship and start-up ventures

## **LIBRARY**

- Library with a total area of 36400 sq ft. is well stocked with 46481 volumes of books with 21826 titles, 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.

## **E. Highlight Achievements (Narrative/Graphical/Tabular representation)**

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

<b>S.No.</b>	<b>Centers</b>	<b>Number of Activities</b>
1	Center for Entrepreneurship Development	12
2	Center for Innovation	08
3	Center for Start-up	04
4	Center for Intellectual Property Rights	08
5	Center for Industry Institution Partnership	15
6	Center for Skill Development	03
7	Ethical Hacking	01
<b>Total Number of Activities</b>		<b>51</b>

- **No. of student's & faculty ideas generated: 37**

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 ecofriendly 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
15	Mrs.R. Revathi	Physics	Power Harvesting using Piezoelectric mat for external power storage.
16	Dr.S.S. Kanmani	Physics	Automatic hand sanitizer
17	Dr. M.R.Venkatraman	Physics	Transperant dye sensitized solar cells for energy efficient window applications
18	Ms. S. Ragavi	Costume Design and Fashion	Development of Eco-friendly antibacterial and anti-inflammatory disposable nursing pads
19	Dr.G.Malarvizhi	Costume Design and Fashion	Development of eye mask using <i>Tabernaemontana divaricata</i>
20	Mrs. T.R. Indhumathi	Costume Design and Fashion	Development of Knee bandage using natural fibre finished with <i>Delonix regla</i> flowers extract
21	Mr.M. Venkateswaran	Catering Science and Hotel Management	Moringa leaves instant soup powder
22	Dr.A.M. Ramachandran	Microbiology	Seaweed extract - A source for cosmetic formulation and antibacterial compounds
23	Dr.R. Mahenthiran	Microbiology	Preparation of oral mouth wash and their characterization using chicken egg yolk antibodies against <i>Candida albicans</i>
24	Dr.M.N. Kathiravan	Biotechnology	Extraction and Characterization of gelatin <i>Oreochromis niloticus</i> scales as an alternate source for mammalian gelatin
25	Dr.K.Arunganthi	Biotechnology	Preparation and analysis of herabl product (tooth paste) from the bark extract of

			<i>Mimusops elengi</i> .L against oral pathogen.
26	Dr.P.Arun	Biotechnology	Mosquito repellent activity of <i>Tridax procumbens</i> leaves - A commercial product
27	Dr.P. Chidambara Rajan	Biotechnology	Formulation and evaluation of anti- dandruff shampoo from the leaves of <i>Passiflora edulis</i> Sims
28	Dr.P. Chidambara Rajan	Biotechnology	Production of plant based biopesticides - A healthy alternative for organic food production
29	Dr.P. Chidambara Rajan	Biotechnology	Formulation and evaluation of natural lipstick from the coloured pigment of Globe amaranth ( <i>Gomphrena globosa</i> )
30	Mrs. C. Abinaya	Food Science and Nutrition	Formulation and evaluation of spinach powder incorporated amla jam
31	Mrs. C. Abinaya	Food Science and Nutrition	A study on development and evaluation of Iron rich cookies by using drumstick and agathi leaves
32	Mrs. P. Kanneshwari	Food Science and Nutrition	A study on development and formulation of redbean incorporated choco spread
33	Mrs. P. Kanneshwari	Food Science and Nutrition	A study on development and Organoleptic evaluation of Omega 3 enriched icecream
34	Mrs. P. Kanneshwari	Food Science and Nutrition	Development and formulation of Tumeric tuber pickle ( <i>Curcuma longa</i> )
35	Dr.M. Savithri	Computer Science	A dynamic website for home related service
36	Dr.R. Nithya	Computer Technology	IOT Based home automation system
37	Dr. D. Maheshwari	Computer Technology	Emotion detection based social media (Twitter)

- No. of student's & faculty Innovation/prototypes developed:13

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

- **No. of IPs generated, published and granted: 22**

### Copy Rights Filed

S.No.	Tittle of the Project	Name of the Guide	Student Name	Registration Number	Date
1.	Quality Evaluation of Hajod Stem ( <i>Cissus Quadrangularis</i> ) Powder Fortified in Pearl Millet Roti	Dr. D. Sridevi	Kiran Joseph II M.Sc.F&N	3985/2023- CO/L	15/02/2023
2.	A study and Development of Nutrient Enriched Syrup using watermelon seed milk	Dr. D. Sridevi	Manikandan II M.Sc.F&N	3986/2023- CO/L	15/02/2023
3.	Development and Formulation of Pomegranate ( <i>Punica Granatum</i> ) and Ridge Gourd ( <i>LuffaActangula</i> ) Incorporated Edible Spoon	Ms. M. Anjali	Naveena H II M.Sc.F&N	3987/2023- CO/L	15/02/2023
4.	Formulation and Development of Coconut Milk Kefir Incorporated with <i>Abutilon Indicum</i>	Mrs. H. Kavya Jyothi	Rakshitha II M.Sc.F&N	4001/2023- CO/L	15/02/2023
5.	Formulation and Development of Foxtail Millet Biscuit with <i>Psidium Gujava</i> (Guava)	Mrs. H. Kavya Jyothi	Jeevigha II M.Sc.F&N	4021/2023- CO/L	15/02/2023
6.	A Study on Development and Formulation of Guava Incorporated Taco Shell	Mrs. P. Kanneshwari, Mrs.S. Madumitha	Dharani II M.Sc.F&N	9578/2023- CO/L	13/04/2023
7.	A Study on Development and Formulation of Fruit Dips	Mrs. P. Kanneshwari Ms. P.P. Abhirami	Dharanya II M.Sc.F&N	9553/2023- CO/L	13/04/2023
8.	A Study on Development and Formulation of Herbal Ketchup	Mrs. P. Kanneshwari Ms. M. Rakeshwari	Geetha II M.Sc.F&N	9555/2023- CO/L	13/04/2023
9.	Standardisation and Evaluation of Banana Stem ( <i>Musa Acuminata</i> ) Powder Peda	Mrs. P. Kanneshwari, Ms. D. Jancy Rani	Arthi Sree II M.Sc.F&N	9565/2023- CO/L	13/04/2023

## Patents Filed

S.No	Name of Inventor & Department	Title of the Invention	Patent Application Number and 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		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 from Coconut Shells ( <i>Cocos nucifera</i> )and its application in food industry.	202341015883 10.03.2023
4		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		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 10.03.2023
8	Dr. R.Senthil Kumar Cognitive System	IoT Based College Bus Tracking and Surveillance	202341010285 10.03.2023
9	Dr. S. Rekha Information Technology	Face Recognition based Attendance System	202341010289 16.02.2023
10		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		Volarization of Onion Through Formulation and Production of Ready to Use Cubes with the Spices	202341018716
13		A study on formulation and Standardization of Spriggy papad	202341019042 23.03.2023

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

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	Gokulavanam 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	Thottathupalayam, 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.13 A, Kamarajapuram East,Karur-639002
20	Uthayaragavi.A.S	Home Baking	Unique pastries	8, Thoppil nagar, kalveerampalayam 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 Strt,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,Golden Nager,Tirupur-07
25	Kaviarasu.P	Finance	Annamalaiyar Finance	Sri Annamalaiyar Finance, Bunrotti
26	Lokesh.N	Garments	Nishanthi Textiles	Kinathukadu Thottam,Kodanagpalayam 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, Veeriampalayam, 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,Ariyalur.
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 Germicid Coimbatore	Coimbatore
41	Ms. Subhashini D P	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 Thennampalayam

- **Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus: Rs. 3,40,000**
- **Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR: Rs. 72,77,150**
- **No. of Technology Transfer and Commercialisation happened: 06**

Six Departments commercialised their products in the inauguration of **Youth Entrepreneurs Spot (YES 2023)** on 28.06.2023. The main objective is to motivate the budding entrepreneurs in promoting start-ups and providing employment opportunities.

## 1. Preparation of Organic Manure

**Organic manure** serves as a safe and environmentally sound substitute for synthetic fertilizers. It also improves the Soil Quality. In the agriculture sector, starting a firm to produce organic fertilizer is a viable business opportunity. Biochemistry and Eco Club students were involved in the preparation of organic manure from the dry leaves, cow dung,

red sand, cocopeat, fruit and vegetable waste from the college. The students got the interest in waste management, initiated their entrepreneurship skills in the production of organic manure, and marketed their products in our college.



## 2. Nutritious Value-added Products

The Earn While You Learn that was initiated by the Department of Food Science and Nutrition, to enhance the entrepreneurship skills in students to mould them as future entrepreneurs. The students were involved in the development of nutritious value-added products. The students were trained from the initial stages of procurement of raw ingredients, formulation and standardization, development, nutritive value and cost calculation, packaging to the final stage of marketing of developed value-added products. This Earn While You Learn is inculcating the consumption of nutritious snack products among the adolescents. The value-added products developed from this Earn while you learn was Hybi grape juice, Jello time (Jelly), Choco fudge, Flavoured milk using natural rose extract, Peanut balls, Thattu vadai, Veg pops. The motto of this initiative was to develop young budding entrepreneurs that promote start-ups providing employment opportunities.



### 3. Designing of Jute/Cloth bag and Sanitary Pouch in the brand name “SAHANA”

The Department of Costume Design and Fashion has started Earn while learn programme for providing opportunities to the students to earn while they are learning and learn skills. In this regard the brand focuses on the environmental friendly initiative which highlights specially Eco-friendly products and services which have less impact on environment compared with the old technology. According to supermarket industry estimates, one person can easily throw away over 100 bags a year.

#### About the products

**Jute/Cloth bag** is designed for carrying Water bottle.

- Reusable and eco-friendly - Helps you do your part in protecting the environment by not throwing away paper and plastic bags.
- Stylish and comfortable, Easy to carry, Eco-friendly, 100% biodegradable & recyclable.

#### Sanitary Pouch

- Washable. Reusable.
- Thick canvas material inside
- Easy to carry and clean.
- Best Travel accessory for girls and women



### 4. Formulation and Standardisation of Detergent Powder

The Earn While You Learn has been initiated by the Department of Chemistry, to empower entrepreneurship skill of aspiring graduates to take up Part Time Jobs during their course of study and mold them as future entrepreneurs. It was initiated on 28.06.2023. The students developed high quality and safe use detergent powder and phenoil products. The students were trained to formulate and standardise the products from initial to final stage. The main aim of this initiative was to encourage and motivate the budding entrepreneurs to promote starts ups.



## 5. Bakery Products

The students of the Department of Catering Science and Hotel Management have organized food stalls in our college regularly on the Fridays of every week and sell the food products prepared by them. This is an initiation for developing the entrepreneurial skills among the students of our department. This enhances the students to gain confidence, in preparing the dishes with standard taste and quality and also to market the products prepared by them. They start from the purchase of the ingredients, portion control, food costing, etc, in such a way that they make profit by selling the products. This helps to inculcate the entrepreneurial skills among the students of our department. In the stalls they sold many products like pani puri, bhel puri, vegetable cutlets, vegetable spring rolls, egg noodles, coffee cake, brownies etc. The students of other departments are also eager in purchasing the products, as it is prepared by their own friends and has been marketed.



## 6. Home Products

The Department of Physics developed three products for sale on 11.8.2023

The description of the three products were listed below

### **Activated Charcoal Soap**

The activated charcoal soap has numerous benefits for the skin, such as Deep cleanse, Exfoliation, prevents acne, Balances oils, Soothes and calms the skin.



### **Kaleidoscope**

A kaleidoscope is an optical toy/instrument, it contains two or more reflecting surfaces tilted towards each other at a certain angle for obtaining a symmetrical pattern when viewed from the other end. This happens due to the phenomenon of repeated reflection. Some common uses of the kaleidoscope are: Kaleidoscope produces beautiful patterns that are used by fashion designers. A kaleidoscope is used as a toy for entertainment.



### **Gleam Diyas:**

Is a simple fancy lamp based on oil and water. Where Oil floats over the water as it is less dense compared to water. This can be used for decorative purposes.





**F. 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]**

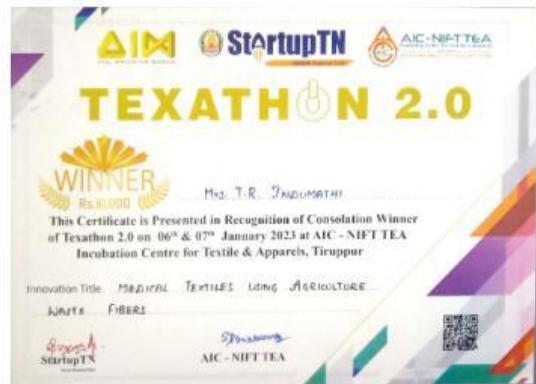
## Research grants received by Faculty from various funding agencies for the Academic

## **Year 2022-2023**

S.No.	Name of the Principal Investigator	Agency	Department of the Principal Investigator	Year of Award	Amount in Lakhs
1	Dr. A.C. Sounthar Raj	TNSCST	Computer Science with Data Analytics	2023	0.075
2	Dr. R. Mahenthiran	TNSCST	Microbiology	2023	0.075
3	Dr. S. Shyamsivappan	TNSCST	Chemistry	2023	0.075
4	Dr. K. Girija	TNSCST	Physics	2023	0.075
5	Ms. U. Suji	TNSCST	MHA	2023	0.075
6	Dr. P. Chidambararajan	TNSCST	Biotechnology	2023	0.075
7	Dr. Sridevi.D	ICSSR	Food Science and Nutrition	2023	5
8	Dr. R. Menaka	ICSSR	Chemistry	2023	3.675
9	Dr. C.M. Kanchana	ICSSR	English	2023	1.978
10	Dr.S.S.Sudha	DBT Star College Scheme	Biochemistry Biotechnology Microbiology Food Science and Nutrition	2022	28
11	Dr.S.S.Sudha	DBT Star College Scheme (Additional Department)	Computer Science,Physical Science and Mathematics	2022	29.31

**List of awards received by faculty for the academic year 2022-2023**

<b>S.No.</b>	<b>Department</b>	<b>Date</b>	<b>Name of the Staff</b>	<b>Name of the Award</b>	<b>Awarded by</b>
1	Mathematics	22.06.2022	Dr.Manimekalai S	Research Excellence Award 2022	InRes- Institute of Researchers Wayanad,Kerala
2	Costume Design and Fashion	06.01.2023	Mrs. T.R.Indumathi	Startup TN	TEXATHON 2.0
3	Biochemistry	Mar'2023	Dr.K.Rajathi	Young Researchers Award	InRes- Institute of Researchers Wayanad, Kerala.
4	Biochemistry	22.06.2022	Dr.T.Indhumathi	Young Scientist Award 2022	InRes- Institute of Researchers Wayanad, Kerala.
5	Microbiology	22-06-2022	Dr. J. Devakumar	Young Researcher Award 2022	InRes- Institute of Researchers Wayanad, Kerala.
6	Microbiology	22-06-2022	Dr.R.Mahenthiran	Young Researcher Award 2022	InRes- Institute of Researchers Wayanad, Kerala.
7	English	25.05.2023	Dr.M.Kavitha	Young Achievers Award 2023	InRes- Institute of Researchers Wayanad, Kerala.
8	English	Mar'2023	Dr.Nagalakshmi .K	Young Researchers Award	InRes- Institute of Researchers Wayanad, Kerala.
9	English	Mar'2023	Dr.C.M.Kanchana	Research Excellence Award 2022	InRes- Institute of Researchers Wayanad, Kerala.



## G. 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

#### **H. 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	Garments	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

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

S.No.	PI	Dept of PI	Title	Amount (Rs.)	Thematic Area
1	Dr. S. Senthil Prabu	Microbiology	Formulation Of Cost Effective Alternative Microbial Culture Media Using Vegetable, Fruits And Kitchen Waste	21,000	Waste management
2	Dr. Meera Raman	FSN	Designing a Protein and Antioxidant Rich Leaf Curd incorporated Peanut Butter	21,000	Health Science
3	Dr. Radha Palaniswamy	Biotechnology	Partial Replacement Of Opc Cement Using The Ash Of Agricultural Wastes - Eco-Friendly Approach	27,000	Environment Conservation
4	Dr. K Rajathi	Biochemistry	Nano Biofertilizer: An Ecofriendly Approach in Promoting Plant Growth, Nodulation, Nitrogen Fixation and to treat Iron Deficiency Diseases in Vigna radiata (Mung Bean)	21,000	Enviornment Management
5	Dr.M.R.Venkataraman	Physics	Semi-Transparent Dye-Sensitized Solar Cells For Self-Powered	22,000	Renewable Energy
6	Dr. N. Kumares	AIML	Function Form Automation Booking System	20,500	AI

7	Dr. K Thenmozhi	B.Sc. IT	Breakzone automation - Canteen management system	20,500	Computer Science
8	Dr. R. VithyaPrabha	English	Designing Vocabulary Tasks For English As A Second Language Students	20,000	Vocabulary acquisition
9	Dr. V. Kavtiha	CDF	Development Of Herbal Wet Tissue Using Cellulosic Microfibril From Agro Residuals	23,000	Health and hygiene
10	Mrs. P.Kavitha	Chemistry	Formulation and Preparation process of Phenyl and Detergent powder.	20,000	Sanitation
11	Dr.K.Kalimuthu	Biotechnology	Protocols were developed for the In-vitro clonal Propagation and Mass multiplication of Banana, Orchids, Synconium in PTC		Plant Tissue Culture

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

- ARIIA – participation and Rank



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

**Yes**

- Smart India Hackathon etc.

## K. Detail of Social Media & Connections of IIC institute

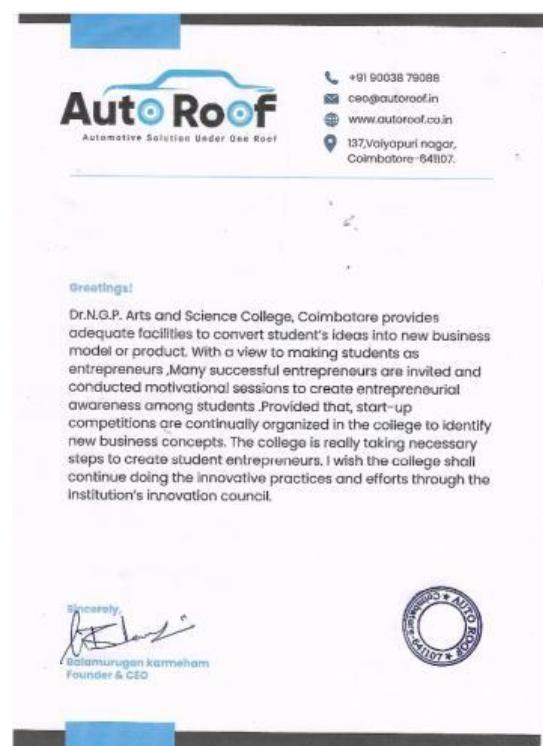
Website : <https://www.drngpasc.ac.in/>

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

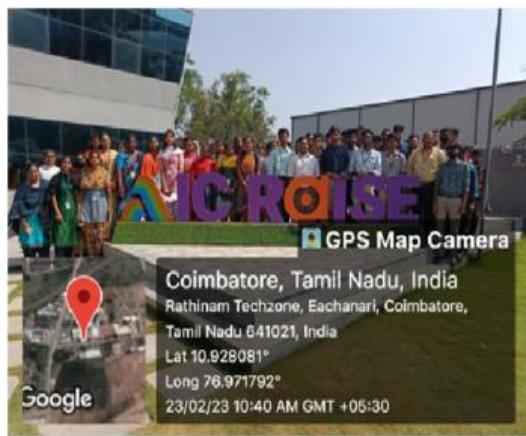
Youtube : <https://www.youtube.com/@drngpasc2023?app=desktop>

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

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



## M. Images



Visit to AIC Raise



Awareness about Entrepreneurship at Govt.School



NGP EXPO' 23



Students@ Global Tamil Nadu Investors Summit

## N. Contact

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