



KONGUNADU
ARTS AND SCIENCE COLLEGE
(AUTONOMOUS)
G.N. MILLS POST, METTUPALAYAM ROAD
COIMBATORE - 641 029



KASC - INSTITUTION'S INNOVATION CELL
(KASC - IIC)

IIC ID: IC2018110336 AISHE: C - 41106

ANNUAL REPORT 2021 - 2022

A. About IIC Institute

❖ Vision / Mission of IIC established at the Institute

• **VISION**

✚ To create empowered citizens who are capable of establishing startups/ enterprise with a balanced, community committed goals so as to address local issues through products and processes.

• **MISSION**

✚ Inspire the stake holders to become more creative and excel in problem solving skills

✚ Create processes that will alleviate the creative nature among the stake holders

✚ Define mechanisms that will help stakeholders discover their potentials in the innovation and entrepreneurship domains

✚ Provide platforms to relearn and unlearn

✚ Continuously offer infrastructural and financial support to budding entrepreneurs

✚ Create an overall ecosystem of Education blended with Innovation in niche areas

❖ Journey of IIC established at the Institute

The KASC-IIC was established in our campus in the academic year 2018-2019, and secured **2.0 star (IIC1.0)** in 2018-2019. Our Institution actively involved and organized various IIC calendar, MIC and self-driven activities and scored **5.0-star (IIC2.0)** rating in 2019-2020 and followed by **4.0 star (IIC3.0)** rating in 2020-2021. Further, students and faculty members are continuously motivating by organizing various sessions related to Innovation, Startup and Entrepreneurship. Through IIC, now students and staff members are coming forward with their novel innovative ideas that may lead to the good Startup's in future. Our faculty members filled many patents and one of the team from computer science department participated and won the Smart Indian Hackathon -2022.





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

B. Brief mention of key functionaries at the IIC Institute

Name of Member	Key Functionaries at the IIC
Dr. M. Lekeshmanaswamy, Principal	Chairman
Dr. S. R Madhan Shankar (Dean, Academics and Associate Professor & Head of PG Biotechnology)	President
Mr. Anand Bellan Raman Managing Partner, Farmkraft Darlington Bridge, Coonoor, The Nilgiris, Tamil Nadu	Vice President
Dr. G. Dhandapani, Assistant Professor of Botany	Convener
Dr. L. Vidyarani Assistant Professor of Mathematics (Aided)	IQAC Coordinator
Dr. K. Velmurugan, Assistant Professor of Zoology	ARIIA Nodal Officer
Dr. R. Thirugnanasampandan, Assistant Professor of Botany	EDC Coordinator
Dr. S. Mythili, Dean, School of Computer Science	Internship Coordinator
Dr. B. Divya Priya, Associate Professor of Commerce (PG)	Startup activity coordinator
Dr. P. Sumathi, Assistant Professor of Botany	Internship coordinator
Dr. R. T. Narendhirakannan, Assistant Professor of Biochemistry	IPR activity coordinator
Dr. L. Kathirvelkumaran,	Social media coordinator

Assistant Professor of Computer Science & Data Analytics	
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C. Portfolio/graphical/Tabular representation of Resource strength (human capital and Physical capital) of the IIC institution

S. No.		Total (In Nos)
1.	IIC Members	71
2.	Innovation Ambassador	27
3.	No. of Faculty Members from Portal	56
4.	Pre-Incubation Units, If any	1. MHRD Institution Innovation Council 2. Aquaculture Unit 3. Herbal medicine preparation unit 4. Bonsai Making 5. Apiary Unit 6. Vermitechnology unit 7. Mushroom cultivation unit 8. Sericulture unit 9. Biofertilizer and Biopesticides production unit 10. KASC Tech-hub
5.	Incubation Units, If any	KASC I-Hub
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.

➤ **Teaching-Learning Resources**

- Adequately-furnished classrooms with fixed/portable ICT teaching tools for effective conduct of 21 UG, 17 PG and 13 research programmes.
- 718 computers for ICT infrastructure.

- Science labs (including DST-FIST sponsored) and 8 computer labs with 160 computers. Separate laboratories for all Science Departments.
- Common Instrumentation Laboratory. Museum in Zoology with rare species.
- Language lab with 30 computers and headphones.
- The college library houses 85000 books, 299 periodicals, 123 journals and 107 National and 16 International journals, 124 National Magazines, 3 international magazines and 49 Newspapers with a completely automated management system.
- Two Counselling Rooms.
- Separate Hostel facility for UG and PG Boys (86) and Girls (173) with 259 rooms.
- Kongunadu Digital Media Centre for Video-Conferencing, e-content development and to conduct Multimedia Assisted Learning/Teaching.
- Learning Management System KASC i-Hub Incubation centre.
- Exclusive Placement office.
- Exclusive Fitness Centre.
- Green House, Medicinal Garden and Herbarium centre for the Research in herbals and plants. Separate rooms for co-curricular and extra-curricular activities.
- KASC Tech Hub for fostering Innovation in IT sector.

➤ **Advanced Laboratories**

- Central Instrumentation Facility
- Virtual laboratories
- Value added Product prototyping lab
- Animal & Plant Tissue Culture,
- Animal House,
- Vermiculture Tank,
- Ornamental Fish Culture,
- Minor Millet product production lab
- Nanotechnology unit with Electrospinning machine
- Mushroom Cultivation unit
- Apiculture Unit,
- Cold Storage unit

➤ **Sophisticated Research Instruments**

- GEL documentation system Gelstar-1312 star
- StepOne™ Real-Time PCR System ABI
- Master cycler
- Inverted Trinocular Fluorescence microscope, Olympus
- Fourier-Transform Infrared Spectroscopy, Shimadzu
- Atomic Absorption Spectroscopy, SL-168
- High-performance Liquid Chromatography, Cyberlab
- Research Spectrofluorometer, Fluro Max-4 CL
- UV Visible Spectrophotometer, Jasco International Company Ltd
- Fermenter NBS

➤ **ICT Facility**

- Microsoft Volume Licensing Services Agreement is updated regularly every year.
- 718 computers as part of the ICT infrastructure and distributed judiciously across all departments for academic and administrative utility.
- The latest updates of computers were carried out with core i5 -221 processor as replacements and additions.
- 34 Laptops with latest configuration.
- Centralized 10 server systems for networking, data processing and storage needs are updated and maintained as per the schedule.
- 45 LCD projectors, 37 scanners and 83 printers for academic purposes. All the departments are interconnected through intranet.
- 58MBPS Leased line facility connecting the entire campus.
- LAN-58MBPS network across the campus and access internet /Intranet resources under uniform network policy.
- Wi-Fi Campus.
- 25 Wi-Fi 33 access Points connecting the campus. Fort iGATE 300c Enterprise Grade Firewall service. Antivirus package:500 users
- 130 KVA online UPS –apart from 150 KVA Solar power plants.
- A new LED display has been installed to provide more digital visibility to the college events. Lecture Capturing system.

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

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

✚ Total number of Events: 16

S. No	Activity	Organised Department	Organised Date	Resource Person
1.	Workshop on "Entrepreneurship and Innovation as Career Opportunity"	Mr. S.K. Arun Kumar, Assistant Professor & Head, Dept. of Commerce with Accounting and Finance	30.11.2021	Dr. E. VENUGOPAL, Principal, TIPS School of Management, Coimbatore, TN
2.	My Story - Motivational Session by Successful Innovators	Dr. V. Rajendran, Dr. N. Mohanapriya, Dr. L. Vidyarani, Assistant Professors, Dept. of Mathematics (Both Aided & Unaided) & Dr. A. Hema, Computer Applications UG (Unaided)	20.11.2021	Ms. ELAKKIYATHIRUMOORTH, Associate Purchase Planning, Samsung India Electronic Limited, Chennai, TN Mr. V. GOKUL & Mr. S. GURU PRESANNA, Director & Co –Founder, GAAGS Technologies Pvt. Ltd, Chennai
3.	My Story - Motivational Session by Successful	Mrs. S. Bhargavi, Assistant Professor,	13.01.2022	Mr. Sriram Prasad G, CEO and Founder,

	Entrepreneur/Startup founder	Dept. of Biotechnology & Dr. J. Anitha, Assistant Professor, Dept. of Biochemistry (both UG & PG)		Keeraikadai.com, Coimbatore, TN
4.	Session on Problem Solving and Ideation Workshop	Mrs. D. Princy, Assistant Professor Information Technology (Unaided) & Mrs. A. Immaculate, Associate Professor, Computer Applications UG (Unaided)	28.02.2022	Mr. Sai Natarajan, CEO, Duratech Solutions, Coimbatore
5.	Pitching Event for Ideas Scouted & linkage with Innovation Ambassadors for mentorship support	Dr. K. Velmurugan, Assistant Professor, Dept. of Zoology	--	14 Innovative Ideas received from Students
6.	Webinar on "How to Become an Entrepreneur? - My Story"	NDLI Club of KASC and Departments of Computer Technology, Artificial Intelligence and Data Analytics	12.10.2021	Mr. S. P. Bharath Dhanabalan, Managing Director, Art Eagle Enterprises India Pvt. Ltd Coimbatore

7.	National Webinar on 'Entrepreneurial Pathfinder'	Department of Commerce (PG) and Commerce with Professional Accounting	16 th – 20 th November 2021	<p>Day 1 - 16.11.2021 Ms. Shanmathi Karthik, – Wittywise.</p> <p>Day 2 – 17.11.2021 Mr. Naveen Manickam, CEO, Krishna Advertisements, Coimbatore.</p> <p>Day 3 – 18.11.2021 Ms. Priya Thahir, Founder – Priya'rity, Coimbatore.</p> <p>Day 4 – 19.11.2021 Ms. Deepa SriGowtham, Founder – First Smile Photography, Erode.</p> <p>Day 5 – 20.11.2021 Ms. M. Praveena, Founder and CEO, Pratvi Natural Products, Coimbatore.</p>
8.	Virtual Session to Celebrate "Azadi Ka Amrit Mahotsav" Innovation Week Celebration (10 th – 16 th)	KASC – Institution's Innovation Council (KASC-IIC)	17.01.2022	<p>Mr. NAVEEN MANICKAM, Founder, Krishna Advertisement, Coimbatore, Tamil Nadu`</p>

	Jan. 2022) on “DESIGN TO PATENT’			
9.	Webinar on Intellectual Property Rights (IPR)	NDLI Club of Kongunadu Arts and Science College	18.03.2022	Webinar on Intellectual Property Rights (IPR)
10.	One Day National Workshop on Intellectual Property Rights (IPRs) and its Strategies for the Startup’s in India	Department of Biochemistry (PG), KASC-IIC and IPR Cell of KASC	25.08.2022	Dr. Balaji Devarajan, Head, Centre for IPR and Assistant Professor, Department of Mechanical Engineering, KPR Institute of Engineering and Technology, Coimbatore Dr. Chakravarthi Mohan Quality manager ISCOP, Indian Society for Certification of Organic Products, Peelamedu, Coimbatore
11.	One day workshop on Prototype/Process Design and Development -Prototyping “Development and Commercialization of Products for Agriculture	KASC- Institution’s Innovation Council and PG & Department of Biotechnology	17.06.2022	Mr. Vignesh Murthy, Manager-New Product Development, Rajshree Biosolutions LLP, Theni, Tamil Nadu

12.	Session on “Angel investment/VC Funding opportunity for early stage entrepreneurs”	KASC- Institution’s Innovation Council and PG & Department of Botany	26.08.2022	Dr. R. Kannan, Project head, NIFT-TEA, Skill Academy, Trippur.
13.	Achieving Value Proposition-Fit and Business-Fit	KASC- Institution’s Innovation Council and Department of Commerce with Professional Accounting	17.06.2022	Ms. Sujitha Deva Vishnu Proprietor, Uyir Organics Farmers Market & Studio 11 Family Salon and Spa, Tiruppur
14.	Session on plan for start- up and Legal & Ethical steps	KASC- Institution’s Innovation Council and Department of Mathematics	06.06.2022	Mr. Vishal Nair, Co-founder & Director, LIGHTNSALT Pvt. Ltd, Kerala
15.	Webinar on “Standard Essential for Filing Patents	KASC-Institution Innovation Council and PG and Research Department of Biochemistry	18.06.2022	Dr. P. Sivaparakasam, Associate Professor and Head, Department of Physics, Sri Vasavi College, Erode
16.	Awareness programme on “Intellectual Property Rights” under the National Intellectual Property Awareness Mission	IPR Cell & Department of Botany, Kongunadu Arts and Science College (KASC), Coimbatore in association with Office of the Controller General of Patents, Designs & Trademarks, Government of India	28.07.2022	Dr. M. Madhanraj, NIPAM Trainer, Examiner of Patents & Designs, Intellectual Patent Office (IPO), Chennai

□ No. of Student's & Faculty Ideas Generated						
S. No	Reg. No	Name of the Student / Group	Class and Department	WhatsApp number	Email ID	Title of the Idea / Concept
1.	191BT045	R Aswini	III B.Sc., Biotechnology	9442820641	191bt045@kongunaducollege.ac.in	The combination of Bermuda Grass with Spirulina
2.	191BT009	Veena Varshini R	III B.Sc., Biotechnology	9361356129	191bt009@kongunaducollege.ac.in	Plantable invitation cards for rejuvenating earth
3.	201BT048	Sebastin Ropiston	II B.Sc., Biotechnology	---	201bt048@kongunaducollege.ac.in	Bioluminescence: An Innovation towards a clean energy future
4.	202BT007	Mohammed Suhaib Al Huq. M	II M.Sc., Biotechnology	---	202bt007@kongunaducollege.ac.in	Fortified Chocolate Production for the Health Benefit
5.	202BO015	P. Boobash Kumar	II. M.Sc., Botany	8124093036	202bo015@kongunaducollege.ac.in	Inexpensive Shoe Deodorizing Ball

6.	202BO005	Anusree A R	II. M.Sc., Botany	6282993068	anusreenairnaduvilayil@gmail.com	Yield Monitoring and Estimation
7.	191BO001, 191BO028 and 191BO035	Tiny Miracles, R. Kailash, M.Ragupathi and M. Vigneshwaran	III B.Sc., Botany	7019372106	kailashr2001leo@gmail.com	Mushroom Capsules
8.	191CH001 191CH017 191CH024 191CH025	Prasath kumar.T Kalaipriya.S Lakshana R J Mahendran M	III B.Sc., Chemistry	6383259178 9384310210	191CH001 191CH017 191CH024 191CH025 @kongunaducollege.ac.in	Electric vehicle battery
9.	201CH005 201CH014 201CH003 201CH016	Ashika S Arthika S Durgadevi C Sangeetha Justina R	II B.Sc., Chemistry	9384438771 9500947618	201CH005 201CH014 201CH003 201CH016 @kongunaducollege.ac.in	Innovations in agrochemicals –NPK APPLICATION
10.	211SC024	Dharshini. M	I B.Sc., CS (SF)	9626458952	dharshinimanigundan@gmail.com	Cloud computing

11.	211sc029	Abika. M	I B.Sc., CS (SF)	8825589551	abikamanimurganit@gmail.com	Weather reporting system
12.	211SC025	Dheeksha. R	I B.Sc., CS (SF)	9025766342	Dheeksharajesh11@gmail.com	IOT
13.	211IT048, 211IT001, 211IT022	S. Nishanth Vivekanandha, M. Subhasree, D. Kanishmashree	I B.Sc., IT	9655079071/ 8610811292/ 6380615132	nishanthso@gmail.com 211IT048@kongunaducollege.ac.in/ subhasreem49@gmail.com 211IT001@kongunaducollege.ac.in /Kanishmashree0108@gmail.com 211IT022@kongunaducollege.ac.in	Customer Relationship Management
14.	211IT032, 211IT021, 211IT033	R. Ranithprawin, I. Sarankanth, S.V Maheskohul	I B.Sc., IT	9787643369/ 6385345039/ 9787204765	prawinranith@gmail.com 211IT032@kongunaducollege.ac.in/ sarankanth43@gmail.com 211IT021@kongunaducollege.ac.in / svmaheskohul9523@gmail.com 211IT033@kongunaducollege.ac.in	Farming Assistant Web Services

□ No. of student's & faculty Innovation/prototypes developed

S. No	Name of the Faculty	Department	Prototype
1.	Dr. S. R. Madhan Shankar	Biotechnology	An apparatus for collecting tree sap
2.	Dr. B. Vishnupriya	Biotechnology	Fiber to Sugar Free Jelly from By-product of Beetroot
3.	Dr. K. Nirubama	Biochemistry	Kongu "k"ookies (Biscuits)
4.	Dr. P. Sumathi	Botany	Herbal Tooth Powder

□ No. of IPs generated, published and granted: Nine (09)

S. No .	Product	Description	Status	Number	Name
1.	An apparatus for collecting Tree sap	The apparatus for collecting tree secreted materials such as tree sap and latex, etc. either through the spadix (inflorescence of the tree) or from the tender region of the tree trunk	Complete Specification - Published	2021410356 18	Dr. S. R. Madhan Shankar, Associate Professor & Head (PG), Dept. of Bio Technology
2.	A Method for preparing a Food thickener from jack fruit Perinath and	It discloses a method for the extraction of polysaccharides from the jackfruit perianth and <i>Ocimum</i>	Australian Patent Granted	2021106433	Dr. S. R. Madhan Shankar, Associate Professor & Head (PG), Dept. of Bio Technology

	<p><i>Ocimum americanum</i></p> <p>Seed mucilage</p>	<p><i>americanum</i> seed mucilage, also discloses the method for preparing a food thickening agent from the jackfruit perianth and <i>Ocimum americanum</i> seed mucilage</p>			
3.	<p>A Composition for Treating Scaling Skin</p>	<p>The formulation of herbal based topical compositions for scaling or flaky skin conditions. The mucilage extracted from the <i>Ocimum americanum</i> seeds comprises mixed polysaccharides and the</p>	<p>Australian Patent Granted</p>	<p>2021106925</p>	<p>Dr. S. R. Madhan Shankar, Associate Professor & Head (PG), Dept. of Bio Technology</p>

		mucilage is capable of surpassing the epidermal layer.			
4.	Formulation of Herbal Toothpaste	This multi-action toothpaste is enriched with 07 active ingredients which are known for their benefits and great taste. This herbal medicinal product mix has categorized "safe" for human use.	Design Patent - Published	335701-001	Dr. B. Vishnupriya, Assistant Professor, Dept. of Bio Technology
5.	Fibre to Sugar free Jelly from by Product of Beetroot	Proposed product is highly health concern, which is completely naturally processed and more beneficial to the consumers due to the peel	Complete Specification - published	2021410 25316	Dr. B. Vishnupriya, Assistant Professor, Dept. of Bio Technology

		contains notable amount of dietary fiber, good source of potassium with the highest betacyanin			
6.	Eco-friendly Drinking Straw	This unique drinking straw which has the capability to absorb zinc metal in the edible liquids and can be easily degradable in the environment and flexible	Provisional I patent – Published	2021410436 86	Dr. B. Vishnupriya, Assistant Professor, Dept. of Bio Technology
7.	IoT	Design an Energy Saving Management System Based on Internet of Things	Provisional patent – Published	3586	Dr. S. Mythili, Associate Professor & Head , Dept. of Information Technology
8.	Machine Learning Based Model	Enhanced Approach for prediction of Diabetic Retinopathy	Patent Published	Go6Q004000 0000	Dr. R. Karthik, Assistant Professor & Head, Dept. of Computer Application'

		using Classifier Model			Dr. K.A. Jayabalaji Associate Professor &Head, Dept. of Computer Science with Data Analytics; Dr. P. Kaliraj Assistant Professor, Dept. of Computer Science
9.	Promoter from <i>Gossypium hirsutum</i> L for enhanced expression of foreign genes in late boll developmental stages of cotton	A binary vector or an expression vector comprising a promoter sequence which was isolated from cotton provides enhanced expression of foreign genes in late boll developmental stages of transgenic cotton	Granted on 26th November, , 2021	Patent No.: 382816 Application No.: 2977/DEL/2 015 Date of Filing : 21/09/2015	Dr. G. Dhandapani Assistant Professor, Dept. of Botany
10.	Method of Inducing Tetraploidy in <i>Citrus reticulata</i> and	The method developed to induce Tetraploidy in the <i>Citrus</i>	Complete Specification - Published	Appl. No: 202241019909; Date of filling: 01 st April, 2022	Dr. R. Thirugnanasampandan, Assistant Professor, Dept. of Botany

	extraction of Limonene	<i>reticulata</i> and extracted Limonene		
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No. of Student & Faculty Start-ups/Ventures established:

04 July 24 - 30, 2022
THE COVAI MAIL

Traditionally Modern Snack Bar - Salem Thattu Vadai

Anushka Juliet
The Covai Mail

Crave for new age street foods among people irrespective of their age, has led to the emergence of various food start-ups getting established in the city. Amidst the variety of fast-food circles, traditional food stalls in the city have a strong impact on the customers. While considering traditional foods, the 'Salem Thattu Vadai' is one of the popular spicy street food recipes which is also nutritive.

The Salem Snacks Box is dedicated to providing this popular dish with multiple varieties to the people of Coimbatore rather than travelling to Salem for the best of its taste. The Salem Snacks Box is a startup led by the partnership of four young entrepreneurs S.Nagamanickam, M.Harish Kumar, J.Ibrahim Badusha and R.Jithendra who are the alumni (2018-2021 batch) of Kongunadu Arts and Science College. The primary aim of this startup is to provide a healthy, unique and traditional recipe to the people.

The Genesis:
Ibrahim stated that the four of them were much interested in business and to emerge as entrepreneurs for a long time. Their aim for the installation of this specific recipe popped up during their trip to Salem which was a part of their college curriculum in which they learnt the nuances of establishing a new business venture. Since then, they had been researching and working on a viable plan for the startup creation.

The KASC - Institution Innovation Council helped in the process of establishing a new venture. At this juncture we thank the Chairman of IIC Dr.M.Leekshmanaswamy, President of IIC Dr.S.R.Madhan Shankar and Dr.G.Dhandapani, Convenor of IIC for their enormous support. When



asked about their initial investment and financial needs, Nagamanickam stated that they began with a limited investment from their individual savings. Considering their family circumstances, each of them had opted for part-time employment during their college days which gave them a handful sum to invest in this startup.

Our Growth:
Unlike other business firms, they did face failures yet the four were persistent towards the vision and the ideal mission of their startup being established with a goal of serving the society with a traditional, nutritive and healthy recipe.

Their first stall was set up in April 2021 at Kuniyamutur, Coimbatore. Their constant dedication to this business has led to their expansion with 6 other outlets in Coimbatore including Variety Hall, R S Puram,



C.A Vasuki (centre), Madhan Shankar, dean-academics (third left) along with the partners (from left) Jithendra, Nagamanickam, Harish and Ibrahim.

Big Bazaar street, Omni Bus stand, Ram Nagar and Saibaba Colony.

Harish Kumar said, "We are very grateful to Dr. C.A.Vasuki, Secretary & Director, Kongunadu Arts and Science College. When we approached her for this startup business, she offered to provide us with a rent-free space in the college campus until we reach stable growth. This was a turning point to take our business to the next level."

Complementing the same, Jithendra stated the management extended their support by helping them pitch for subsidy / interest-free loans including the contractual progress for the business. This has piloted their startup to launch their 8th outlet at Kongunadu Arts and Science College campus.

Futuristic View:
Being young entrepreneurs, Nagamanickam stated they are willing to support similar young and budding business minds by providing their franchise at a lower cost. Regarding the same, 3 franchises are queued to be confirmed and one has already been finalized. He stated that their

future aim is to make "Salem Snacks Box" a pan India outlet and accordingly as a kick start they are working on outlets to be opened in the neighbouring districts of Tamil Nadu and other States.

Harish said, "When it comes to passion versus experience, we would welcome enthusiastic young minds. We young entrepreneurs have gone through tough roles of the business and hence we would like to support people with the same urge towards business."

Our Signature Recipe:
Their menu list holds a variety of dishes under different categories. The team stated that out of the whole Mango Settu, Cheese Settu, Curd Norukkal, Garlic Norukkal, Cheese Sandwich, Chocolate

Sandwich (Dark Chocolate), Cheese Bun and Palkova Bun are their best-served dishes significantly well reached among the customers. The chutneys provided as taste enhancers highlight their unique taste and flavour seeking customers' attention.

Speaking of tradition, the team has brilliantly managed to exhibit it not just in food but in the ambience of their food stall.

As said by most triumphant personalities 'Age is just a number, for success is not limited to it', this young team have become a resourceful example to several budding minds who have the passion and zeal to contribute to Atmanirbhar Nation building.

"We prioritize passionate minds willing to take up challenges of a new learning and those actively involved with dedication."

- Harish Kumar

Amount spent on promotion and awareness generation on Innovation Entrepreneurship in the campus

Name of the Startup	Name and Contact details of the Founders	About Startup	Kind of support by HI

Aquaculture Unit	Dr. S. Raja Assistant Professor, Dept. of Zoology, KASC	Ornamental fish culture Unit	Rs. 2,10,000 /=-
Bonsai Making Unit	Dr. H. Abdul Kaffoor Assistant Professor, Dept. of Botany, KASC	Bonsai plants making Unit	Rs. 25,000/=-
Vermicomposting Production Unit	Dr. P. Kathireswari Assistant Professor, Dept. of Zoology, KASC	Vermicomposting/ Biofertilizer Production Unit	Rs. 2,87,505 (College of Excellence Fund)
Apiary Unit	Dr. S. Rajeshkumar Assistant Professor, Dept. of Zoology, KASC	Beekeeping and Honey production Unit	5 Beekeeping boxes with tools kit from State Director, Khadi and Village industries commission, Ministry of MSME, Govt. of India College Management provided space for setting up the apiary Unit at Vadavalli.
Mushroom Production Unit	Dr. S. Krishnakumari Assistant Professor, Dept. of Biochemistry, KASC	Mushroom cultivati Unit	Rs.1,10,000/=-

□ **Amount grant or fund supported to student & Faculty lead Innovations, start-ups and IPR**

- ❖ Eco Preserver (Dept. of Zoology)
- ❖ Kongu “k” ookies (Dept. of Biochemistry)
- ❖ Mushroom Cultivation Unit (Dept. of Botany & Biochemistry)
- ❖ Apiculture Unit

□ **No. of Technology Transfer and Commercialization happened:**

- Five Under Progress
 1. Kongu “k” ookies (Biscuits)
 2. Fiber to Sugar Free Jelly from By-product of Beetroot
 3. An apparatus for collecting tree sap
 4. Herbal Tooth powder
 5. NRDC – Prototype Technology Transfer Project

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

🚩 **Dr. B. Vishnu Priya**, Assistant Professor in Biotechnology proposed solution for "**Swachhata Pakhwada Competition - 2021**" was shortlisted for prototype development under "**DRISHTI scheme**". The proposal on "**Independent and Adjustable self-lifters for Elders**" was submitted on time, with a budget estimate of about **Rs. 1,50,000 (Rupees One Lakh Fifty Thousand Only)**. The Director, CMTI, accepted to sanction the partial funds after the successful prototype development (within 6 Months) and commercialization & initial money will be funded by our institution.

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



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

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

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

❖ **ARIIA – participation and Rank**

- ARIIA Registration Number: ARI-C-41106;
- ARIIA Rank: Band Performer (General – Non Technical Institution)



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

- Formulated and has action plans for implementation of the I&E policy.
- Trained Faculty: **Dr. S. R. Madhan Shankar**, Head, PG Department of Biotechnology, & Dean, Academics



❖ Smart India Hackathon etc.

Ministry of Education
Government of India

SMART INDIA HACKATHON 2022

75 Azadi Ka Amrit Mahotsav

Organizers

MoE's INNOVATION CELL (GOVERNMENT OF INDIA)

ANCTE

Persistent

Broadcast Partner

Partner

aws

Shell

#SIH Senior Software Edition

GRAND FINALE 2022

August 25-26

KAZAA CONQUERORS RED

Kongunadu Arts and Science College
Tamil Nadu,
Coimbatore.

Org. Name **PS ID**
Communication and Information service, MHA. **RV1240**

TEAM DETAILS

WINNER

TEAM LEADER : N. KARTHIKEYAN
TEAM MEMBER 1 : S. ARAN
TEAM MEMBER 2 : S. CHIRANJIVI
TEAM MEMBER 3 : R. ANGEL GRACE
TEAM MEMBER 4 : N. DHIVIYADARSHINI
TEAM MEMBER 5 : S. SHIBILA

TEAM MENTOR : Dr. R. SARAVANA MOORTHY

Venue: IIT KANPUR (UTTARPRADESH, INDIA)

“Only Arts & Science College to crack the SIH”

Anushka Juliet
The Coval Mail

Kongu Arts and Science College (KASC) secured the first position and a cash prize of Rs. 1,00,000 in the “Grand Finale – 2022” of Smart India Hackathon (Software Edition). 5th edition conducted at IIT Kanpur. SIH was an initiative by the Ministry of Education.

“Kazza Conquerors Red”, a team of six final year BSc Computer Science (Unaided) students of KASC under the mentorship of Dr.R.Saravana Moorthy, Associate professor, Head, Department of Computer Science competed with 39 teams from various other universities across the country.

According to report of a Netherlands-based cyber security firm, India stands second on the global ranking for the maximum number of data breaches reported in the first half of 2022.

In this connection, an analysis of IBM revealed that the cost coverage of data breaches had increased up to \$2.32 million from \$2.21 million since the previous year. An official government report

proposed at the Indian Parliament also revealed that the maximum of these data breaches occurred between March 2018 and July 2022.

The need to address these cyber predators is significant as data theft is not about just personal information but also a threat to the nation as well. In this regard, KASC has been involved into various activities relating to cyber security and creating awareness for the same. Recently, the institution conducted the national Summit '22 on cyber safety and security.

As a winning note, the students expressed their heartfelt thanks to the college Secretary, **C.A. Vasuki**, for her intense support in facilitating the opportunity.

The team had chosen networking as their problem domain, wherein they worked on the theme ‘block chain and Cyber security’. During the final round, the team projected the software module along with its detailed presentation. A demo run of the software before the audience of the event received a good sum of appreciation.



- Dr.S.Mythili, Dean-School of Computer Science, KASC



Dr.R.Saravana Moorthy Associate professor, Head, Department of Computer Science along with the ‘Kazza Conquerors Red’ team present their certificates and the cash reward.

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Dr. S. Mythili, Dean-School of Computer Science, expressed her victory wishes to the students. The highlight of the victory is that KASC is the only arts college winner among other participants of the event.

She added that initially the students were hesitant but later made through the journey with the staff and peer encouragement. She highlighted on the strong curriculum framework of the institution that facilitates the students to improve the skill sets. Their Mol' with various industrial platform has paved way for the students to have hands-on experience on diversified industrial concepts.

Meanwhile commenting on the victory to the Coval Mail, **Dr.S.R.Madhun Shankar**, Dean Academics & President KASC- IIC stated that the hackathon is pertinent in the current scenario as the usage of cyber network has increased in the current decade irrespective of age category. Especially children being vulnerable to the major threats of the cyber network, developing solutions for the same is the need for the hour.

He added that the themes proposed by the Government during the hackathon addresses the solution for the younger generation. Alongside helping the young minds come up with more of innovation and to convert them into a viable product for the national security as well as industrial testing in the global market. These initiatives assure in fulfilling the country's ‘Atmanirbhar Bharat’ vision of self-reliance and supply solutions to the other countries.



Being overwhelmed with the department's achievement, **Dr.R.Saravana Moorthy** Associate professor, Head, Department of Computer Science informed us that their team was the only Arts and Science College from South India to have won the award under this category, making it the prestigious moment for the institution. He added that their team worked tirelessly for about 36 hours continuously to come up with the solution. The team of six were trained for the designing, program embedding, developing the application, software development and coding as well.



In addition, **L. Kathirvelkumar**, Assistant professor, Head Department of Computer science with Data analytics, said, “With this victory, we have planned to conduct programming club to identify programming skill among the students. The identified talents will be trained to take part in more such national platforms.”

Technically describing their module, the students said they worked on network monitoring through mobile application. There were able to come up with a solution to identify a suspicious IP address or any suspicious network and have it notified to the user. This application aids in cautioning the user before entering into an apprehensive URL, through which data breach becomes more at ease. The software run successfully identified many such suspected URL, which was very much a need for current generation.

In addition to this, other participants also proposed various industrial solutions of diversified themes owing to different problem statement provided by the organizing members.



K. Detail of Social Media & Connections of IIC institute


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

Facebook: <https://www.facebook.com/kongunaduartsandsciencecollege/>

Youtube: <https://www.youtube.com/channel/UCpse2yvPKxDQSwi8KvIb-yA>

Twitter: <https://twitter.com/kascobe>

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




VT ECOGREEN TECHNOLOGIES PRIVATE LIMITED

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29.09.2022
Coimbatore


Kongunadu Arts and Science College, Coimbatore has a verydynamic and proactive Institution's Innovation Council which caters to creation of an Innovation and Entrepreneurship enabling ecosystem among the young students by way of organizing several awareness programmes and mentoring support from established and budding entrepreneurs. The Institution received 4 stars in the IIC 3.0 and it has organized various events related to the innovation, IPR, start-up and entrepreneurship for the benefit of students and faculty fraternity. Due to these activities, students are getting a chance to participate in various innovation related initiatives, idea competitions, Smart India Hackathon & Innovation contests organized by MOE. I am Very delighted to express my wonderful experience with Kongunadu Arts and Science College, Coimbatore and my sincere thanks to the Institution for inviting me to act as a Resource Person in the Institution Innovation Council.

For VT Eco Green Technologies Pvt. Ltd.,



Director

Dr Lipin Dev M S



PRABHUNARAIN.S
Director, IPR Division

GAGNANT
FINANCIAL & LEGAL CONSULTANTS LLP



LION PRABHUNARAIN.S
DIRECTOR & HEAD,
IPR & TECHNOLOGY DEVELOPMENT DIVISION,
GAGNANT FINANCIAL & LEGAL CONSULTANTS LLP.

I am very delighted to express my experience with Kongunadu Arts & Science College, located in Coimbatore, Tamil Nadu. Firstly, The Management and Faculty are extremely supportive and devoted to student's carrier developments, Talent developments, Skill Development, etc. This Institution is very keen on the student's education and its mechanism to bring out innovative ideas and Patents from Students & Researchers are peerless. There is strong bondage between students, faculty, and management. I wish Kongunadu Arts and Science College to continue its journey and become one of the top institutes in India. My sincere thanks to the Institution for inviting me to act as a Resource Person in the Institution of Innovation Council (IIC).

Prabhunarain.S



Ms. Sivaraghavi

CEO start-up culture foundation

Chapter Director

Strat up Grind

Coimbatore -29

Kongunadu Arts and College provides adequate opportunities and support to faculty members for upgrading their skills and qualifications where we were given freedom to adopt new techniques /strategies of testing and assessment of students in the domain of entrepreneurship a dynamic and energetic team of faculty lead by amazing leaders.

A handwritten signature in black ink, appearing to read 'Sivaraghavi'.

(Ms. Sivaraghavi)



KASC is a great place to be. I am really happy to address IIC team - who were kindling the students to be a job providers and mentoring the students to become a successful entrepreneur. Being a part of this institution is an honour in itself. A plethora of opportunities come your way for you to grab on, help find the real you. So, it's a promise of great experiences with an excellent faculty team and many events for you to take part in. While you are here, build networks, take chances and compete as if your life is at stake and you will be rewarded with the best! -

naveen manickam (alumni)

A handwritten signature in blue ink, appearing to read "Naveen Manickam".

CEO at Krishna Advertisement

M. Images

N. Contact

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