

KONGUNADU ARTS AND SCIENCE COLLEGE

[ARI-C-41106][C-41106]

Section 1: Policy And Institutionalization Of I&E Activities In HEIs (Academic Calendar Year 2020-21 & 2021-22)

1.1) Adoption Level of Innovation and Entrepreneurship (I&E) Policy in HEIs: Registration; Policy Formulation; Policy Implementation

Completion of Action Items (status as on 7th November 2022)	Status
Registered in the NISP portal for I&E Policy Adoption	Yes
Institute has Formulated an Innovation and Entrepreneurship (I&E) Policy	Yes
Institute has Action Plans for Implementation of the I&E Policy	Yes

Contact:

Faculty Name:	Dr. S. R. Madhan Shankar
Designation:	Dean Academics
Email ID:	srmadhanshankar@gmail.com
Mobile No.	9443340563

1.2) Performance Level of Institution's Innovation Councils (IICs) Established in HEIs: Scores and Stars Obtained

Annual Performances of IIC Institute	Stars Secured
IIC 1.0 (2018-19)	1,2
IIC 2.0 (2019-20)	5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	3

Contact:

IIC President of the Institute:	Dr. S. R. Madhan Shankar
Designation:	Associate Professor & Dean, Academics
Email ID:	srmadhanshankar@kongunaducollege.ac.in
Mobile No.	9443340563

1.3) Activeness of Trained Innovation Ambassadors in Driving Campus I&E Ecosystems in HEIs: Trained IA/HEI and Nos of Prescribed Activities undertaken by IA

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
1	Dr. R. Amsaveni	Advance	0
2	Dr. K. SOWNDHARARAJAN	Advance	0
3	MANIVANNAN SUBRAMANIAN	Advance	0
4	Dr. B. Divya Priya	Advance	13
5	Dr. G. Dhandpani	Advance	0
6	Dr B Vishnupriya	Advance	0
7	Meiyalagan Velayutham	Advance	0
8	V. Sangeetha	Advance	0
9	Dr.L.Vidyarani	Basic	0
10	Dr.N. Mohana Priya	Basic	0
11	Dr. R. Thirugnanasanpandan	Basic	0
12	Dr. K. Nirubama	Advance	0
13	Dr. B. Vishnupriya	Basic	0
14	Dr. S. Rajeshkumar	Basic	6
15	Dr. G. Anbarasi	Basic	0
16	Dr. Jayanthi E	Basic	0
17	Dr. S. SELVI	Basic	0

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
18	Dr. A. Amuthalakshmi	Basic	0
19	Miss. S. Bhargavi	Basic	0
20	Dr. K. Chandra Prakash	Advance	0
21	Dr. S. Punitha Devi	Basic	0
22	Dr. J. Anitha	Basic	0
23	Miss. M. Amsaveni	Basic	0
24	Miss. R. Yamini	Basic	0
25	Dr. G. Vadivelan	Basic	0
26	M. Santhoshkumar	Basic	0
27	Dr. L. Kathirvelkumaran	Basic	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-41106	Yes
HEI Participated in the Smart India Hackathon (2022)	C-41106	Yes

Section 2: Teaching and Learning: Academic Programs related to Innovation and Entrepreneurship (I&E) Offered by the HEI

2.1) Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Course Start Date
1	Business Communication	19UPA307	2020-21	Core Course	Bachelor	Commerce with Professional Accounting	4	03-08 2020 00:00
2	Company Law	19UPA411	2020-21	Core Course	Bachelor	Commerce with Professional Accounting	3	18-01 2021 00:00
3	Business Economics	20UPA102	2020-21	Core Course	Bachelor	Commerce with Professional Accounting	3	03-08 2020 00:00
4	Business Communication	20UPA307	2021-22	Core Course	Bachelor	Commerce with Professional Accounting	3	09-08 2021 00:00
5	Company Law	20UPA411	2021-22	Core Course	Bachelor	Commerce with Professional Accounting	3	21-02 2022 00:00
6	Business Economics	21UPA102	2021-22	Core Course	Bachelor	Commerce with Professional Accounting	3	09-08 2021 00:00
7	Entrepreneurial Development	20UCM620	2020-21	Core Course	Bachelor	Commerce	2	18-01 2021 00:00
8	Global Business Environment	20PCM102	2020-21	Core Course	Master	Commerce (PG)	5	16-11 2020 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cours Start Date
9	Management of Small Enterprises	20PCM207	2020-21	Core Course	Bachelor	Commerce (PG)	5	05-04 2021 00:00
10	Global Business Environment	21PCM102	2021-22	Core Course	Master	Commerce (PG)	5	29-09 2021 00:00
11	Management of Small Enterprises	21PCM207	2021-22	Core Course	Master	Commerce (PG)	5	21-02 2022 00:00
12	Global Business Environment	20UBA409	2020-21	Core Course	Bachelor	Business Administration	5	21-02 2022 00:00
13	Entrepreneurial Development	19UCB6E2	2021-22	Elective Course	Bachelor	Commerce with Banking and Insurance	5	21-02 2022 00:00
14	Diploma in Wildlife Biology	21DWB101; 21DWB102; 21DWB1CL	2021-22	Elective Course	Diploma	Department of Zoology	6	13-07 2021 00:00
15	Diploma in Ornamental Fish production and Trade	21UDZB101; 21UDZB102; 21UDZB1CL	2020-21	Elective Course	Diploma	Zoology	6	16-07 2020 00:00
16	Diploma in Ornamental Fish production and Trade	21UDZB101; 21UDZB102; 21UDZB1CL	2021-22	Elective Course	Diploma	Zoology	6	13-07 2021 00:00
17	Diploma in Apiculture	Programme code 06- 21UDZA101; 21UDZA102; 21UDZA1CL	2020-21	Elective Course	,Diploma	Zoology	6	16-07 2020 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Course Start Date
18	Diploma in Apiculture	Programme code 06-21UDZA101; 21UDZA102; 21UDZA1CL	2021-22	Elective Course	Diploma	Zoology	6	13-07 2021 00:00
19	Diploma in Immunotechnology	Programme code 06-21DIM101; 21DIM102; 21DIM1CL	2021-22	Elective Course	Diploma	Zoology	6	13-07 2021 00:00
20	IPR Biosafety and Bioethics	20UBTE1	2021-22	Elective Course	Bachelor	Biotechnology	5	09-08 2021 00:00
21	Bio Business and project management	19UBT6S3	2020-21	Elective Course	,Bachelor	Biotechnology	3	10-08 2021 00:00
22	Plant tissue culture an hydroponics	19UBT4S2	2020-21	Elective Course	,Bachelor	Biotechnology	3	10-08 2021 00:00
23	Herbal Technology	19UBT4S2	2020-21	Elective Course	,Bachelor	Biotechnology	3	10-08 2021 00:00
24	Bionanotechnology IPR and Biosafety	19UBT5E1	2021-22	Elective Course	,Bachelor	Biotechnology	5	09-08 2021 00:00
25	Bioentrepreneurship	19UBT5E1	2021-22	Elective Course	,Bachelor	Biotechnology	5	09-08 2021 00:00
26	Bioethics Biosafety IPR and Total quality Management	19PBT3E1	2020-21	Elective Course	,Master	Biotechnology	5	03-08 2020 00:00

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offering Department/ Centre/ Unit Name	Total Credit Score	Cours Start Date
27	Bioentrepreneurship Marine and algal Biotechnology	19PBT4E2	2020-21	Elective Course	,Master	Biotechnology	5	18-01 2021 00:00
28	Clinical lab technology 1 Pathology	20UBT4S2	2021-22	Elective Course	,Bachelor	Biotechnology	3	21-02 2022 00:00

2.2) Non-Academic Courses in Innovation, Entrepreneurship and IPR

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Prog Start Date
1	Vermitechnology	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Zoology	25-01 2022 00:00
2	Animal Husbandry	2020-21	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	Zoology	18-01 2021 00:00
3	Pattern Drafting	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Costume Design and Fashion	11-11 2021 00:00
4	Fashion Trims	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Costume Design and Fashion	27-01 2021 00:00
5	Extra Departmental course (EDC) Vermitechnology	2020-21	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	Zoology	03-01 2020 00:00

Srno	Title of Course	Academic Year	Type of Certificate Program	Certificate Program/MDP/FDP/EDP Sponsored/Supported by	Certificate Program Offering Department/ Centre/ Unit Name	Prog Start Date
6	Extra Departmental course (EDC) Entrepreneurial opportunities in sericulture	2021-22	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	Zoology	09-08-2021 00:00
7	Certificate course in Mushroom technology	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Biochemistry	11-10-2022 00:00
8	Certificate course in Artificial Intelligence and Machine learning	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Information Technology	06-10-2021 00:00
9	Bioentrepreneurship	2021-22	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	Biotechnology	09-08-2021 00:00
10	JOC Clinical Research and Medical coding	2021-22	Short-term Certificate Program	Self Sponsored/Supported	Biotechnology	09-08-2021 00:00
11	Bioentrepreneurship skill Development	2021-22	Entrepreneurship Development Program (EDP)	Self Sponsored/Supported	Biotechnology	09-08-2021 00:00

Section 3: Pre-Incubation and Incubation Infrastructure & Facilities are Currently in Operation to Promote I&E Agenda (AY 2020-21 & 2021-22)

3.1) Existence of Pre-Incubation Facility (Tinkering Lab/Makers' Space/Design Centre/New Gen IEDC/IEDC/EDC/Innovation Cell/Startup Cell) (\geq 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email
1	EDC	EDC	Dr. B. Divya Priya	9677709027	divyapriyab_cm@kongunaducollege.ac.in
2	Innovation Cell	Innovation Cell	Dr. R. Thirugnanasampandan	9894793074	thirugnanasampandanr_bo@kongunadu

3.2) Existence of Incubation Facility (\geq 1500 Sq. Ft. Floor Area)

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
1	KASC-TECH HUB	Dr. L. Kathirvel Kumaran	9791507816	kathirvelkumaranl_ca@kongunaducollege.ac.in	Own Resource
2	KASC-TECH HUB	Mr. B. Rajkumar	9443404083	rajkumarb_cs@kongunaducollege.ac.in	Own Resource

3.3) Existence of IPR Cell / Patent Facilitation Unit / Technology Transfer Centre at the institute

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schem
1	Technology Transfer Centre /TTO	KASC-IPR Cell	Dr. S R Madhan Shankar	9443340563	srmadhanshankar@kongunaducollege.ac.in	Mentoring Su Grant Suppor Incubation Fa Support (Idea Prototype an Business Plan Development - Angel and (c Capital Fund :

Section 4: Generation and Support of Prototypes / Innovations at HEI and Recognition received (AY 2020-21 & 2021-22)

4) Total no. of Innovations (Verified and Recommended) in Different TRLs (4-9) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Current Engagement of Team Lead in Institute	C N
1	Independent Adjustable Self lifters for Elders	Academic Research Assignment/Industry Sponsored Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Vishnupriya B	Faculty	

Section 5: Start-ups/Ventures Established and Supported at HEI and & Recognitions Received (AY 2020-21 & 2021-22)

5) Total no of Ventures/Startups (Verified and Recommended) are Recorded in the YUKTI National Innovation Repository of the IIC Institute (Status as on 7th November 2022)

Sr. No.	Startup/Venture Name	Startup/Venture Registered as	CIN No/LLP/OPC/RC No	GST No	FY of Establishment	Startup/Venture Recognized by DPIIT/Startup India	FY Sta Re Suj fro Inc uni Ins
No Data Found							

Section 6: Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

6) Collaboration with Other Incubation Units, HEIs and Industry Associations to Strengthen Better Services and Support to Innovation & Startups at HEI (AY 2020-21 & 2021-22)

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
1	Millinialz Consultancy Pvt Ltd	Corporate/Industry Association	2	Active	07-03-2022	View (/Uploads/Ir
2	Lean Six Sigma Advanced Trainer Coimbatore	Corporate/Industry Association	1	Closed	05-12-2020	View (/Uploads/Ir

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
3	Data Software Research Company Private Limited (DSRC)	Corporate/Industry Association	1	Active	24-05-2022	View (/Uploads/Ir
4	Bannari Amman Institute of Technology	Educational Institute	3	Active	03-02-2021	View (/Uploads/Ir
5	Elies Biotech Private Ltd Erode	Corporate/Industry Association	5	Active	07-03-2022	View (/Uploads/Ir
6	Aquasub Engineering Coimbatore	Corporate/Industry Association	1	Closed	08-03-2021	View (/Uploads/Ir
7	Division of Biotechnology, College of Environmental and Bio-resource sciences, Chonbuk National University, South Korea	Educational Institute	3	Active	23-09-2020	View (/Uploads/Ir
8	Hackup Technology Pvt. Limited	Corporate/Industry Association	1	Closed	22-02-2021	View (/Uploads/Ir
9	Green Era Recyclers	Corporate/Industry Association	1	Inactive	12-08-2020	View (/Uploads/Ir
10	ICARKrish viyan kendra	Govt. Agency (Central)	1	Active	25-11-2022	View (/Uploads/Ir

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
11	MSME Technology Development Center Chennai	Govt. Agency (State)	2	Active	31-12-2020	View (/Uploads/Ir
12	Trawello Healthcare Services PVT Limited Bengaluru	Corporate/Industry Association	5	Active	21-02-2020	View (/Uploads/Ir
13	YUVA YI	Corporate/Industry Association	3	Active	21-09-2020	View (/Uploads/Ir
14	ICAR - Central Institute for Cotton Research, Nagpur	Govt. Agency (Central)	3	Active	15-11-2021	View (/Uploads/Ir
15	V TECH Solutions	Corporate/Industry Association	3	Active	21-09-2020	View (/Uploads/Ir
16	TiaC (Software Trainers for Corporates and Higher Educational Institutions)	Corporate/Industry Association	1	Closed	27-08-2021	View (/Uploads/Ir
17	Asian Fabrix Private Limited, Karur	Corporate/Industry Association	2	Active	10-03-2022	View (/Uploads/Ir
18	Bioline Laboratory Coimbatore	Corporate/Industry Association	1	Closed	01-02-2021	View (/Uploads/Ir

Sr. No.	Collaborated Agency Name	Collaborated Agency Type	Period of Collaboration (No. of Years)	Current Status of Collaboration	Date of MOU / Agreement Signed on	View
19	Department of Wildlife Biology, Government Arts college, OOTY	Educational Institute	3	Active	28-02-2020	View (/Uploads/Ir
20	Spectrum Skills Yard	Corporate/Industry Association	3	Active	13-03-2020	View (/Uploads/Ir

Section 7: Intellectually Property (IP) Generated and Commercialization

7.1) IPR Filed and Published (Copyrights & Design only)

Sr. No.	Title/Name of IP (Copyright/Design Only)	Type of IP	IP Registration Number of Copyright/Design	Date of Filed/Published	Has this IP(Copyright & Designs Only) been Commercialized/Transferred to Industry/Startup/Society?
1	Formulation of Herbal Toothpaste-Saptapoorna	Design	335701-001	30-11-2020	No
2	Artificial Intelligence based snail capturing agriculture machine	Design	36407-001	22-07-2022	No

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	Design and Energy saving Management System based on Internet of Things	202141027555	20-06-2021
2	Hybrid Fuzzy Association rule to detect anomalies in health care data(Indian Patent)	202241025524A	13-05-2022
3	Method of inducing tetraploidy in Citrus reticulata and extraction of limonene	202241019909	01-04-2022
4	Identify the main success criteria and key methods that an Industry should pursue	202141044811	03-10-2022
5	Secured Data Transmission using Improved Crypto Coding VLSI Architecture	2021310034322	30-07-2021
6	Enhanced Approach for Prediction of Diabetic Retinopathy using Classifier Model	202141040631	07-09-2021
7	Cyber Security Framework for Digital Banking, Threats, Challenges and Solution	202241004203	25-01-2022
8	"An Efficient Method For Developing High Corrosion Resistant Al 6205 Alloy Using Hexamethylcyclotrisiloxane Inhibitor"	202041028836	07-07-2020
9	"Fiber To Sugar Free Jelly From By Product Of Beetroot"	202141025316	07-06-2021
10	"AN APPARATUS FOR COLLECTING TREE SAP"	202141035618	06-08-2021
11	"A Method for preparing a Food thickener from jack fruit Perinath and Ocimumamericanum seed mucilage"	2021106433	24-11-2021
12	"A Composition for Treating Scaling Skin"	2021106925	01-12-2021
13	Eco-friendly Drinking Straw	202141043686	27-09-2021
14	IoT and AI based toll gate tax collection system and enhanced the fast moving of emergency vehicle to save patients using cloud database	202241030705	28-05-2022
15	"A System For Pit Hole Detection And Filling For Road Based On Artificial Intelligence"	2020101939	16-09-2020
16	Medicinal drug identification system and a method thereof	202241005584	02-02-2022

7.3) Patent Published / Granted Data

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
1	202141047024	MACHINE LEARNING BASED INTELLIGENT SENSOR FRAMEWORK TO ASSIST FARMERS IN WEATHER FORECASTING FOR APPROPRIATE CROP CULTIVATION	18-10-2021	Published	2021		
2	202141044811	Identify the main success criteria and key methods that an Industry should pursue-	03-10-2021	Published	2021		
3	202141041446	Impact of increasing e-commerce in India during covid 19	14-09-2021	Published	2021		
4	202141040631	ENHANCED APPROACH FOR PREDICTION OF DIABETIC RETINOPATHY USING CLASSIFIER MODEL	07-09-2021	Published	2021		
5	202131037513	A METHOD FOR PREPARING A FOOD THICKENER FROM JACKFRUIT PERIANTH AND OCIMUM AMERICANUM SEED MUCILAGE	18-08-2021	Published	2021		
6	202141035618	AN APPARATUS FOR COLLECTING TREE SAP	06-08-2021	Published	2021		

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied the Patent as	View
7	202131034322	SECURED DATA TRANSMISSION USING IMPROVED CRYPTO CODING VLSI ARCHITECTURE	30-07-2021	Published	2021		
8	202141027555	DESIGN AN ENERGY SAVING MANAGEMENT SYSTEM BASED ON INTERNET OF THINGS	20-06-2021	Published	2021		
9	202141025316	FIBER TO SUGAR FREE JELLY FROM BY-PRODUCT OF BEETROOT	07-06-2021	Published	2021		
10	201941021400	Synthesis of PEGylated Caffeic acid – a novel anti-cancer drug	30-05-2019	Published	2019		
11	2020101939	A SYSTEM FOR PIT HOLE DETECTION AND FILLING FOR ROAD BASED ON ARTIFICIAL INTELLIGENCE	21-08-2020	Granted	2020		
12	201941021400	Synthesis of PEGylated Caffeic acid – a novel anti-cancer drug	30-05-2019	Granted	2020		

7.4) IP Commercialized and Transferred to Industry/Startup

Sr. No.	Name of Technology Licenced/Transferred/Commercialized	Technology Type	Patent/Licence Holder name (Institute Co-ownership is Must)	Technology Transferred to	Name of Licensee	Date Tran: Tech
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No Data Found



Declaration

To,
The ARIIA Committee
MHRD's Innovation Cell
New Delhi

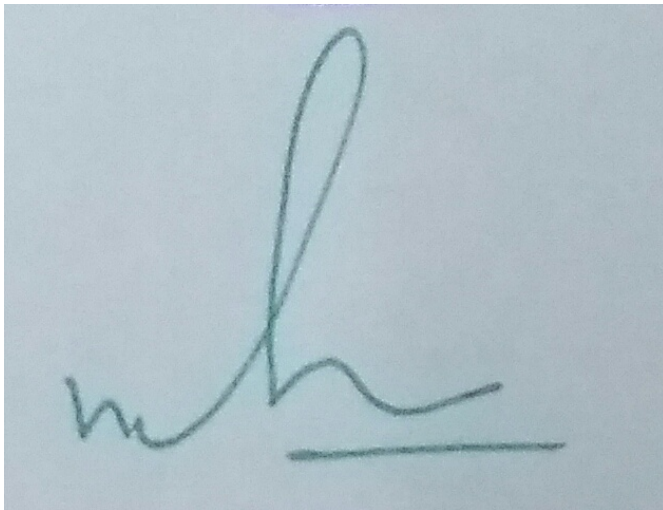
Joint Declaration by the Head of the Institute and Nodal Officer

Dear Sir,

Herewith, myself **Dr. M.Lekeshmanaswamy** (Head of Institute) and **Dr. K.Velmurugan** (Nodal Officer) jointly declaring on behalf of our institute is that all the information submitted are true and correct to best of our knowledge.

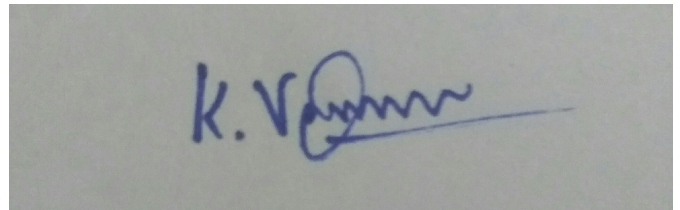
Thank you

The Head of Institute

A handwritten signature in blue ink on a light blue background. The signature is stylized, starting with a large loop and ending with a horizontal line.

Dr. M.Lekeshmanaswamy,
Head of the Institution,
KONGUNADU ARTS AND SCIENCE COLLEGE,
G.N MILLS POST, COIMBATORE - 641029, Tamil Nadu

Nodal officer

A handwritten signature in blue ink on a light blue background. The signature is stylized, starting with 'K.V.' followed by a series of loops and ending with a horizontal line.

Dr. K.Velmurugan,
Nodal Officer,
KONGUNADU ARTS AND SCIENCE COLLEGE,
G.N MILLS POST, COIMBATORE - 641029, Tamil Nadu