nirf-Innovation
National Institutional Ranking Framework for Innovation
Ministry of Education, Government of India

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Government of India

Full Data Report

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National Institutional Ranking Framework for Innovation
Ministry of Education, Government of India

Vivekanandha College of Engineering for Women [ARI-C-37022][C-37022]

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	No
Institute has Action Plans for Implementation of the I&E Policy	No

Contact:

Faculty Name:	Dr.R.JAYAVADIVEL
Designation:	ASSOCIATE PROFESSOR

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)	1,2,3,4
IIC 2.0 (2019-20)	4.5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	3.5

Contact:

IIC President of the Institute:	Dr. KCK. Vijayakumar
Designation:	Principal

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.Jayavadivel	Advance	0
2	Mrs. C. Rithika	Advance	2
3	Dr G VIJAYAKUMAR	Basic	0
4	Dr. M. Sethu	Advance	0
5	Sinduja. S	Basic	0
6	Dr. P. T. Kalaivani	Basic	0
7	Dr.K.VENKATARAMANAN	Basic	0
8	Dr. E. Kamalavathi	Basic	0
9	Mr. E. Thangadurai	Basic	0

Sr. No.	Name of the Faculty IA	Level of Training	No of I&E Expert Talks/Sessions Conducted
10	Dr.A. Muthukumara Pandian	Advance	0
11	Mrs. S. Fowjiya	Basic	0
12	Mr.S.Balakrishnan	Basic	0
13	Dr. S. Kokila	Basic	0
14	Dr.K.Satheshkumar	Basic	0
15	Mr. P. Magudeswaran	Basic	0
16	A.Saranya	Basic	0
17	T.Saravanan	Basic	0
18	R.Dhanapal	Advance	0
19	A.Anjali	Advance	0
20	P.Yogashree	Basic	0
21	Ms. P. Bhavatharani	Basic	0
22	Mr. P. Magudeswaran	Basic	0
23	Dr.K.Satheshkumar	Basic	0

1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-37022	Yes
HEI Participated in the Smart India Hackathon (2022)	C-37022	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 Offe Departmen Centre/ Uni Name
1	Design Thinking	U19ITE11	2021-22	Elective Course	Bachelor,Master	Information Technology
2	Internet of Things	U19CS627	2021-22	Core Course	Bachelor	Computer S and Enginee
3	Open Source Software	U19CS412	2020-21	Core Course	Bachelor	Computer S and Enginee
4	WebTechnology	U19CS414	2020-21	Core Course	Bachelor	Computer S and Enginee
5	Microprocessor and Interfacing	U19CS521	2021-22	Core Course	Bachelor	Computer S and Enginee
6	Fundamental Skills in Integrated Product Development	U15ECE47	2020-21	Elective Course	Bachelor	Electronics a Communical Engineering
7	Testing and Verification of VLSI Circuits	P19VD207	2021-22	Core Course	Master	Electronics a Communical Engineering
8	Digital System Design With FPGA	P19VDE16	2021-22	Elective Course	Master	Electronics a Communical Engineering
9	Entrepreneurship Development	U15EEE24	2021-22	Elective Course	Bachelor	Electrical an Electronics Engineering
10	Industrial Safety	P19PSOE2	2020-21	Elective Course	Master	Electrical an Electronics Engineering

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offe Departmen Centre/ Uni Name
11	Entrepreneurship	U15BT725	2021-22	Core Course	Bachelor	Biotechnolo
12	Research Methodology and IPR	P19CSAC1	2020-21	Elective Course	Master	Computer Se and Enginee Information Technology System Engineering VLSI
13	Computer Networks	U19CS520	2021-22	Core Course	Bachelor	Computer Se and Enginee
14	Python Programming	U19CS203	2021-22	Core Course	Bachelor	Computer Se and Enginee
15	Data Science and Analytics	U19CSE08	2021-22	Elective Course	Bachelor	Computer Se and Enginee
16	Smart Sensor Technologies	U19CSE05	2021-22	Elective Course	Bachelor	Computer Se and Enginee
17	Electromagnetic Fields	U19EC412	2021-22	Core Course	Bachelor	ELECTRONIC AND COMMUNIC ENGINEERIN
18	Computer Communication Networks	U19IT621	2021-22	Core Course	Bachelor	Information Technology
19	Plant and Animal Biotechnology	U19BT619	2021-22	Core Course	Bachelor	BIO TECHNC
20	Immunology and Immunotechnology	U19BT515	2021-22	Core Course	Bachelor	BIO TECHNC

Srno	Title of Course	Course Code	Academic Year	Type of Course	Level of Course	Course Offered Department/ Centre/ Unit Name
21	Computational Biology	U19BT513	2021-22	Core Course	Bachelor	BIO TECHNO
22	Power System Protection and Switch gear	U19EE517	2021-22	Core Course	Bachelor	ELECTRICAL ELECTRONIC ENGINEERIN
23	Bio Sensors and Measurement Devices	U19BM302	2021-22	Core Course	Bachelor	BIOMEDICA ENGINEERIN
24	Medical Physics	U19BM406	2021-22	Core Course	Bachelor	BIOMEDICA ENGINEERIN

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	Certifica Program Offering Departm Centre/ U Name
1	Women Entrepreneurship Development Programme	2020-21	Entrepreneurship Development Program (EDP)	Central Govt. Agency	EDC Cell

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) (>= 600 Sq. Ft. Floor Area)

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Govt. Schemes
1	AICTE-IDEALab	VCEW AICTE IDEA LAB	Dr. C. Poongodi	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development),Incubation Facility Support (Innovative Business Model to Startup and Market Linkage & Growth Stage)
2	IEDC	VCEW IEDC Cell	Dr. N. Mohanapriya	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)
3	Start-Up Cell	VCEW Startup Cell	Dr. C. Poongodi	Mentoring Support,Pre-Incubation Facility Support (Idea to Prototype and Innovative Business Plan Development)

3.2) Existence of Incubation Facility (>= 1500 Sq. Ft. Floor Area)

Sr. No.	Name of Unit	In-charge Name	Govt. Schemes
1	VCEW EDC CELL	Mrs. A. Thamaraiselvi	DST/NSTEDB/NIDHI,MSME,Own Resource,Other Central/State Government
2	Vivekanandha Innovation Centre	Dr. KCK. Vijayakumar	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	Govt. Schemes
1	IPR Cell	VCEW IPR CELL	Dr. K. Satheshkumar	Mentoring Support,Seed Grant Support

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	Cu Er of Le In
1	Toilet in Buses	Independent Assignment/Non-academic Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Atmakuri Lakshmi Sumana	St
2	Menstrual Hygiene Management	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Janashri N	St
3	UV Sterilization box using XT546 Timer	Academic Requirement/Study Project	2021-22	TRL 4 : Small scale prototype built in a laboratory environment ("ugly" prototype)	Rishita. A	St
4	VRITUAL DOCTOR ROBOT	Academic Requirement/Study Project	2021-22	TRL 5 : Large scale prototype tested in intended environment	MEGAVARSHINI G	St

Sr. No.	Innovation Name	Developed as part of	FY of Development (FY. 2020-21,2021-22)	TRL Stage	Team Lead/Innovator Name	Cu Er of Le In
5	Smart Gloves for Physically Challenged Person	Academic Requirement/Study Project	2021-22	TRL 6 : Prototype system tested in intended environment close to expected performance	Nathera E	St

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	Startuµ Recogr DPIIT/! India
1						

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
1	Namakkal District Small and Tiny Industries Association, Namakkal	Corporate/Industry Association	5	Active	01-08-2020

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(Copyrigh Designs Only) been Commercialized/Tra to Industry/Startup/So
No Data Found					

7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	A full stack approach to develop industrial refrigerator unit using IoT	202141058571A	15-12-2021
2	Employment Seeking System over the Cloud Using Machine Learning Approach	202141057748	12-12-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
3	An Iot Based Smart Cooker That Is Pre-Programmed For Various Recipes	202141060465	24-12-2021

7.3 & 7.4) 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 t Patent a
1	202041022909	AN APPARTUS FOR GENERATING ELECTRICITY FROM DRY LEAVES	01-06-2020	Published	2020	Applicant
2	202141042654	A METHOD AND A SYSTEM FOR DETECTING ODOURLESS AND HAZARDOUS GAS EMISSION FROM CLOSED DRAINAGE STORAGE LOCATIONS	21-09-2021	Published	2021	Co-Appli
3	202041022902	SMART FLAT SECURITY SYSTEM	01-06-2020	Published	2020	Applicant
4	202041022905	AN APPARATUS FOR WASTE WATER PURIFICATION	01-06-2020	Published	2020	Applicant
5	202141037285	DESIGN AND IMPLEMENTATION OF INTELLIGENT PARKING SYSTEM USING IOT	17-08-2021	Published	2021	Co-Appli

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied t Patent a
6	202141059421	An IOT based industrial waste Management monitoring techniques	31-12-2021	Published	2021	Co-Applic
7	202141060760	A machine learning based approach to study the fertility of particular variety of plant species	10-12-2021	Published	2021	Co-Applic
8	202041048829	Railway Track Safety Monitoring and Control System using IOT	20-11-2020	Published	2020	Co-Applic
9	202141059430	An IOT fan along with speed control mechanism	21-12-2021	Published	2021	Co-Applic
10	202041022900	Portable Agriculture Testing Device	01-06-2020	Published	2020	Co-Applic
11	202041022903	Smart Opaque Glass Device for Blind	01-06-2020	Published	2020	Applicant
12	2021101995	Method for monitoring the bridge using IoT	18-04-2021	Granted	2021	Co-Applic
13	2020101733	An Iot Based Smart And Efficient Wireless Power Transmission System	09-08-2020	Granted	2022	Co-Applic
14	202041022903	Smart Opaque Glass Device for Blind	01-06-2020	Published	2020	Applicant

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied t Patent a
15	202141017805	ARTIFICIAL INTELLIGENCE BASED ROBOTICS FOR DETERMINING QUALITY OF BATTERY IN MANUFACTURING INDUSTRY	16-04-2021	Published	2021	Other(Ind
16	202011015819	SENSOR BASED SYSTEM AND METHOD FOR AUTOMATIC MIRROR ADJUSTMENT IN VEHICLES	11-04-2020	Published	2020	Other(Ind
17	202041050708	SYSTEM AND METHOD FOR EVALUATING PACKET DETECTION ATTACK (PDA) FOR IMPROVING A DELIVERY RATIO	21-11-2020	Published	2020	Other(Ind
18	202141055011	METHOD FOR ENERGY EFFICIENT ROUTING USING SUPPORT VECTOR MACHINE IN WIRELESS SENSOR NETWORKS	28-11-2021	Published	2021	Other(Ind
19	202041047525	IMPROVED ENERGY-EFFICIENT FAULTY INFORMATION EXTRACTION SYSTEM AND METHOD	30-10-2020	Published	2020	Other(Ind

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied t Patent a
20	202141059148	COMPARING AND CONTRASTING THE IMMUNITY LEVELS FOR BOTH VACCINATED AND NON-VACCINATED PEOPLE WITH COVID-19 VACCINE USING MACHINE LEARNING APPROACH	18-12-2021	Published	2021	
21	202141056296	AN IOT BASED SELF PHASED HEATING BLANKET	12-04-2021	Published	2021	
22	202141055574	TECHNIQUES TO CATEGORIZE THE STAGES OF LUNG CANCER IN DEPTH USING MACHINE LEARNING APPROACH	12-01-2021	Published	2021	
23	202141055121	MACHINE LEARNING BASED APPROACH TO ANALYZE THE CROWD FOR COVID 19 POSSIBILITIES	29-11-2021	Published	2021	
24	202141054736	GEO FENCING OF AGRICULTURAL LANDS BASED ON SOIL QUALITY USING DRONES AND SMART DEVICES	26-11-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied t Patent a
25	202141042017	An investigation into E-commerce and its impact on the Indian market and retailers	17-09-2021	Published	2021	
26	202131038977	SMART SHOPPING SYSTEM WITH INTELLIGENCE CART MODULE BASED ON ARTIFICIAL INTELLIGENCE AND INTERNET OF THINGS	27-08-2021	Published	2021	
27	202141030799	Portable device for Chronic Kidney Disease analysis by using Raspberry-Pi camera	07-09-2021	Published	2021	
28	202141021636	SYSTEM AND METHOD OF PRODUCING BIOGAS USING ORGANIC WASTE FOR HOUSEHOLD PURPOSE	13-05-2021	Published	2021	
29	202141020704	MACHINE LEARNING BASED LIFESTYLE COACHING SYSTEM TO MONITOR HEALTH RISK OF LIFESTYLE DISEASES	05-06-2021	Published	2021	

Sr. No.	Patent Registration Application No	Patent Title	Patent Application Date	Status of Patent Applications	Patent Published / Granted Calendar Year	Institute applied t Patent a
30	202141018763	AN APPARATUS AND A METHOD FOR THE AUTOMATIC SEGREGATION AND RECYCLING OF WASTE MATERIAL	23-04-2021	Published	2021	
31	202041000376	Design of an Autonomous Mobile Robot using Sensor Fusion for Dynamic Interaction	04-01-2020	Published	2020	

7.5) 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	
No Data Found					

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