

## 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.V.S.Lalitha
Designation:	Professor
Email ID:	rvslalitha@acet.ac.in
Mobile No.	8008379819

### 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)	3.5
IIC 3.0 (2020-21)	4
IIC 4.0 (2021-22)	0 ( On Progress )

#### Contact:

IIC President of the Institute:	Dr.T.K.Ramakrishna Rao
---------------------------------	------------------------

Designation:	Principal
Email ID:	principal@acet.ac.in
Mobile No.	9000276662

### 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	RELANGI ANIL KUMAR	Advance	0
2	Dr. R. V. S. LALITHA	Advance	0
3	V.S.SURYA PRAKASH	Advance	0
4	D Kishore	Basic	0
5	Dr.Ch V Raghavendra	Basic	0
6	SRINIVASA RAO JAJULA	Basic	0
7	T ANJIAH	Basic	0
8	CH S V V S N MURTHY	Basic	0
9	A Chiranjeevi	Basic	0
10	B Manikyala Rao	Basic	0
11	A RAMA KRISHNA	Basic	0
12	Dr.T.S.KARTHIK	Advance	0
13	Dr.T.K.Ramakrishna Rao	Basic	0
14	J. Divya Lalita Sri	Basic	0

### 1.4) Participation in KAPILA/SIH Program

HEI Registered in the KAPILA Portal	C-18060	Yes
HEI Participated in the Smart India Hackathon (2022)	C-18060	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	COMMUNITY SERVICE PROJECT	R2031019	2021-22	Core Course	Bachelor	civil engineering electronics and Communication Engineering Mechanical engineering Electronics and Electrical Engineering Computer Science Engineering Information Technology Engineering	4	01-08-2022 00:00:00	

### 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	Program Start Date	Program End Date
1	Workshop on design thinking and innovation	2020-21	Short-term Certificate Program	Self Sponsored/Supported	Institute innovation council-ACET	13-09-2021 00:00:00	25-09-2021 00:00:00

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

Sr. No.	Type of the Unit	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
No Data Found						

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

Sr. No.	Name of Unit	In-charge Name	Contact no	Email	Govt. Schemes
No Data Found					

### 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. Schemes
No Data Found						

## 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	Contact No	Em
---------	-----------------	----------------------	---	-----------	--------------------------	--	------------	----

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	Contact No	Ema
No Data Found								

## 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
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
No Data Found						

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	EDZ one International Private Limited	Corporate/Industry Association	05	Active	19-12-2020	<a href="#">View (/Uplc</a>
2	Manihamsa Power projects	Corporate/Industry Association	6	Active	28-09-2020	<a href="#">View (/Uplc</a>
3	Hero vired	Corporate/Industry Association	5	Active	21-10-2021	<a href="#">View (/Uplc</a>
4	ELECTROPRO	Corporate/Industry Association	5	Active	13-09-2021	<a href="#">View (/Uplc</a>
5	SMD IT Solutions Pvt Limited	Corporate/Industry Association	4	Active	29-12-2021	<a href="#">View (/Uplc</a>
6	Agumentik Consultancy Private Limited	Corporate/Industry Association	5	Active	24-12-2021	<a href="#">View (/Uplc</a>
7	Agumentik Educamp Private	Knowledge/Mentoring Agency	4	Active	24-12-2021	<a href="#">View (/Uplc</a>
8	Krify Software Technologies (P) Limited	Knowledge/Mentoring Agency	6	Active	28-12-2021	<a href="#">View (/Uplc</a>

## Section 7: Intellectually Property (IP) Generated and Commercialization

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

Title/Name of IP	IP Registration	Has this IP(Copyright & Designs Only) been
------------------	-----------------	--

Sr. No.	(Copyright/Design Only) Name of IP	Type of IP	Number of Copyright/Design IP Registration	Date of Filed/Published	Commercialized/Transferred to Industry/Startup/Society? (Copyright & Designs Only) Yes/No
Sr. No.	(Copyright/Design Only)	Type of IP	Number of Copyright/Design	Date of Filed/Published	Commercialized/Transferred to Industry/Startup/Society?
No Data Found					

## 7.2) Patents Filed by HEI

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
1	Smart Spectacles with Display and Reminder Techniques	2021105809	18-08-2021
2	A Connected Module for a VLSI circuit with a Battery Pack	202141043814	21-09-2021
3	Portable Incense Burner with Automatic Ash Disposal	202141033818	28-07-2021
4	The method of controlling dynamic vibration of drill bit	202141007888	25-02-2021
5	DEVELOPMENT OF IOT BASED UNDERGROUND WIRE FAULT DETECTION SYSTEM	202141000118	02-01-2021
6	L-Type Bi-Directional Roller Conveyors for Glass Hauling in Production Industries	202141054023	23-11-2021
7	Inverse Reinforcement learning based security mechanism against adversarial attacks for industrial IoT systems	202241032350	06-06-2022
8	Instance based transfer learning system for multivisual and language categorization	202211034122	14-06-2022
9	Intelligent agriculture system to assist farmers in choosing better decisions using data science.	202141054340	24-11-2021
10	Body vitals monitoring smart mobility assistance walker	202141003016	24-11-2021
11	Artificial Intelligence based early detection system for intestine cancer	202141050439	03-11-2021
12	A Method for A Fraud Detection in A Bank Transaction with A Wrapper Model and A Harris Water Optimization-Based Deep Recurrent Neural Network	2021106075	20-08-2021
13	Night Vision Patrolling Robotic Intelligent Framework utilizing Cloud-based Internet of Things.	202141054349	24-11-2021
14	CONVERTIBLE TRI BICYCLE FOR KIDS	352632-001	04-11-2021
15	An intelligent vision gadget for visually handicapped people based on the IoT.	202141054629	25-11-2021
16	Integrated Airless wheel	347386-001	05-08-2021

Sr. No.	Title/Name of Patent	IP Registration Number	Date of Filed/Published
17	Integrated Airless wheel	353546-001	23-10-2020
18	IOT based Biometric System and Method for Automotive Applications	202041046403	26-11-2020
19	DESIGN AND DEVELOPMENT OF SOIL INSPECTION ROBOT FOR AGRICULTURAL FIELDS	202041051571	03-03-2020
20	System and Method for Generating a MIMO-GFDM	202041009065	03-03-2020
21	Method and Monitoring Driver Alertness using IOT	202041047537	30-10-2020
22	Modular Assembly of a Nutritional Health Assessment Device for Children	202041034021	07-08-2020
23	EMOTION ANALYSIS BASED ASSESSMENT SYSTEM	202041025516	17-06-2020
24	ATM CARD AND FINGERPRINT BASED AUTHENTICATION SYSTEM FOR ONLINE BANKING USING SMARTPHONE	202041015194	07-04-2020
25	METHOD AND SYSTEM FOR MONITORING USAGE OF A USER-DEVICE BY A USER	202041049831	16-11-2020
26	Autonomous Drone with Rapid Response Surveillance System	202041046405	23-10-2020
27	System for Thermoelectric Power Generation from massive Kitchen waste heat	202041034782	13-08-2020
28	Development of IOT Based System to Detect and Prevent Child Abuse	202041027328	26-09-2020
29	QUANTIZED TAPERED FRACTAL RHOMBIC SUB-ARRAY ANTENNA	202041046766	27-07-2020

### 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
1	202141007888	The method of controlling dynamic vibration of drill bit	25-02-2021	Published	2021	Other(Individual)

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
2	202141000118	Development of IOT based underground water fault detection system	02-01-2021	Published	2021	Other(Individual)
3	202141054023	L-Type Bi-Directional Roller Conveyors for Glass Hauling in Production Industries	23-11-2015	Published	2021	Other(Individual)
4	202241032350	Inverse Reinforcement learning based security mechanism against adversarial attacks for industrial IoT systems	06-06-2022	Published	2022	Other(Individual)
5	202211034122	Instance based transfer learning system for multivisual and language categorization	14-06-2022	Published	2022	Other(Individual)
6	202141054340	Intelligent agriculture system to assist farmers in choosing better decisions using data science.	24-11-2021	Published	2021	Other(Individual)
7	202141003016	Body vitals monitoring smart mobility assistance walker	24-11-2021	Published	2021	Applicant
8	202141050439	Artificial Intelligence based early detection system for intestinecancer	03-11-2021	Published	2021	Co-Applicant
9	202141054349	Night Vision Patrolling Robotic Intelligent Framework utilizingCloud-based Internet of Things.	24-11-2021	Published	2021	Other(Individual)
10	202141054629	An intelligent vision gadget for visually handicapped peoplebased on the IoT.	25-11-2021	Published	2021	Other(Individual)

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
11	202041046403	IOT based Biometric System and Method for AutomotiveApplications	26-11-2020	Published	2020	Other(Individual
12	202041051571	DESIGN AND DEVELOPMENT OF SOIL INSPECTION ROBOT FORAGRICULTURAL FIELDS	03-03-2020	Published	2020	Other(Individual
13	202041009065	System and Method for Generating a MIMO-GFDM	03-03-2020	Published	2020	Other(Individual
14	202041047537	Method and Monitoring Driver Alertness using IOT	03-10-2020	Published	2020	Other(Individual
15	202041025516	EMOTION ANALYSIS BASED ASSESSMENT SYSTEM	17-06-2020	Published	2020	Other(Individual
16	202041015194	ATM CARD AND FINGERPRINT BASED AUTHENTICATION SYSTEMFOR ONLINE BANKING USING SMARTPHONE	07-04-2020	Published	2020	Other(Individual
17	202041049831	METHOD AND SYSTEM FOR MONITORING USAGE OF A USER-DEVICE BY A USER	16-11-2020	Granted	2020	Other(Individual
18	202041034782	System for Thermoelectric Power Generation from massiveKitchen waste heat	13-10-2020	Published	2020	Other(Individual
19	202041027328	Development of IOT Based System to Detect and Prevent ChildAbuse	26-09-2020	Published	2020	Other(Individual
20	202041046766	QUANTIZED TAPERED FRACTAL RHOMBIC SUB-ARRAY ANTENNA	27-07-2020	Published	2020	Other(Individual

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
21	2021106075	A Method for A Fraud Detection in A Bank Transaction with A Wrapper Model and A Harris Water Optimization-Based DeepRecurrent Neural Network	20-08-2021	Granted	2021	Other(Individual)
22	352632-001	CONVERTIBLE TRI BICYCLE FOR KIDS	11-04-2021	Published	2021	Other(Individual)
23	347386-001	Integrated Airless wheel	05-08-2021	Published	2021	Other(Individual)
24	353546-001	Integrated Airless wheel	23-10-2020	Published	2020	Other(Individual)
25	2021105809	Smart Spectacles with Display and Reminder Techniques	18-08-2021	Granted	2021	Other(Individual)
26	202141043814	A Connected Module for a VLSI circuit with a Battery Pack	21-09-2021	Published	2021	Other(Individual)
27	202141033818	Portable Incense Burner with Automatic Ash Disposal	28-07-2021	Published	2021	Co-Applicant

#### 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
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. Dr. T. K. Rama Krishna Rao** (Head of Institute) and **Mr. R ANIL KUMAR** (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 green ink, appearing to be 'Rama Krishna Rao', written over a white background.

Nodal officer

Dr. Dr. T. K. Rama Krishna Rao,  
Head of the Institution,  
Aditya College of Engineering & Technology,  
Kakinada, Andhra Pradesh



A handwritten signature in black ink that reads "Anil". The signature is stylized with a large loop and a long horizontal stroke at the end.

Mr. R ANIL KUMAR,  
Nodal Officer,  
Aditya College of Engineering & Technology,  
Kakinada, Andhra Pradesh