3.3.1: ***Institution has created an ecosystem for innovations, Indian Knowledge System (IKS), including awareness about IPR, establishment of IPR cell, Incubation centre and other initiatives for the creation and transfer of knowledge/technology and the outcomes of the same are evident.***

(Write description in maximum of 500 words)

The Institute provides a conducive environment for promotion of Innovation and Incubation. All required facilities are provided and guidance is extended to the students. Students are encouraged to actively involved in the application of Technology for societal needs. Necessary support is provided for Documentation, Publication of Research Papers and also for obtaining patents. Awareness meets, workshops, seminars and guest lectures on Entrepreneurship are organized. Students are provided opportunities to directly interact with outstanding entrepreneurs excelling in their field. Product service training is provided for creating awareness on marketing the products.

The Innovation Eco System works through the following facilities.

- Institution Innovation Council (IIC)
- Entrepreneurship Promotion and Incubation Center (EPIC)
- Intellectual Property Rights Cell(IPRC)

Institution Innovation Council:

The IIC has been established to systematically foster the culture of Innovation in young learning minds. The primary mandate of IIC is to encourage, inspire and nurture young students by supporting them to work with new ideas and transform them into prototypes. The IIC envisions by encouraging creations, establish to promote innovation in the Institution through infinite modes leading to an invention of upgrading eco-system in the campus. A number of activities are conducted through this Council to motivate and promote creativity and innovation among students and faculty members.

The Council has been awarded **3 star rating during 2022-23, 2 star rating during 2021-22 by Ministry of Education (MoE), Govt of India**. Faculty members have been trained as ambassadors in product design, product development, IPR and entrepreneurship. All these have helped in promoting innovative ideas for technology development and commercialization.

Entrepreneurship Promotion and Incubation Center (EPIC)

Entrepreneurship Promotion and Incubation Center at NRIIT believes that the entrepreneurship is not just about starting companies, but a pathway towards India's socio-economic development. E.P.I.C also partnered with **APSCHE, Govt. of Andhra Pradesh** and created a platform for the world of entrepreneurship. Our vision is to make students and faculty, 'entrepreneurial' in every work that they do. NRIIT is not only the institute pioneering with blossoming innovations, but also the swarm of ventures and the impact it has created and it will be creating the innovation and entrepreneurship ecosystem as a whole. Our Alumni have emerged as entrepreneurs, providing their hand in development to the society, economy and employment. To promote an entrepreneurial mindset and to encourage forging a relationship between the industry and the institution, individual department interacts with industry to ascertain its needs to fill the gap in curriculum.

Intellectual Property Rights Cell(IPRC)

For promoting research, extension and training in the field of intellectual property rights the institute established a center for Intellectual Property Rights in the year 2021. This center will incentivize innovative and cutting-edge academic research in the field of IP Laws and conducting various training and extension activities for creating more awareness in the field of IPR.With the continuous and sustained efforts of all the faculty and students and also with collaborative research 30 patents are published.

IQAC CO-ORDINATOR

I.Q.A.C. Coordinator
NRI INSTITUTE OF TECHNOLOGY
POTHAVARAPPADU (V), Agiripalli (M)
Eluru Dist., Vijayawada Rural - 521 212

HEAD OF THE INSTITUTION

PRINCIPAL
NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M)

NRI INSTITUTE OF TECHNOLOGY

(AUTONOMOUS)

Approved by AICTE, New Delhi: Permanently Affiliated to JNTUK, Kakinada
Accredited by NAAC with "A" GRADE, Accredited by NBA (CSE, ECE&EEE)
An ISO 9001:2015 Certified Institution
Pothavarappadu (V), Agiripalli (M), Eluru District, A.P., India, Pin: 521 212
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IPR CELL

Details of Patents Filed

S. No	Name of the Faculty	Department	Patent Application No	Title of IPR	Patent Filed Date	Patent Publication Date
1	Mr.ChintaVenkataMurali Krishna	CSE	202241072743	Internet of Things(IoT) Based Battery Energy distribution Management System and Method Thereof	16/12/2022	30/12/2022
2	Dr.VarakumariSamudrala	ECE	202241058169 A	Artificial Intelligence Based Earthquake Resisting	12-10-2022	21-10-2022
3	Dr. VarakumariSamudrala	ECE	202241058175 A	Artificial Intelligence Based Bionic Hand	12-10-2022	21-10-2022
4	Dr. VarakumariSamudrala	ECE	202241058097 A	Molecular Interactions In Binary Mixtures Of 2,6 Dimethyl Cyclohexanone And Correlation With JOU	12-10-2022	21-1-2022
5	Dr. VarakumariSamudrala	ECE	202241058095 A	Intelligent floor clearing robot	12-10-2022	21-10-2022
6	S. SudhakarBabu	MECH	370664	MultimediaBag	12/09/2022	Application Under Process(waiting for Technical Examination)
7	S. SudhakarBabu	MECH	370665	SeatingDevice	12/09/2022	Application Under Process(waiting for Technical Examination)
8	S. SudhakarBabu	MECH	370666	AnElectronicPaintingKit	12/09/2022	Application Under Process(waiting for Technical Examination)
9	S. SudhakarBabu	MECH	370667	ExerciseMachineforParalysisPatients	12/09/2022	Application Under Process(waiting for

						n)
18	S. SudhakarBabu	MECH	370676	Duster	12/09/2022	Application Under Process(waiting for Technical Examination)
19	S. SudhakarBabu	MECH	370677	ChestCompressionDevice	12/09/2022	Application Under Process(waiting for Technical Examination)
20	S. SudhakarBabu	MECH	370678	ExerciseMachineforParalysisPatients	12/09/2022	Application Under Process(waiting for Technical Examination)
21	S. SudhakarBabu	MECH	370679	MuscleActivationDevice	12/09/2022	Application Under Process(waiting for Technical Examination)
22	S. SudhakarBabu	MECH	370680	TablemateInsertForChair	12/09/2022	Application Under Process(waiting for Technical Examination)
23	S. SudhakarBabu	MECH	370681	MobileChargerHolder	12/09/2022	Application Under Process(waiting for Technical Examination)
24	S. SudhakarBabu	MECH	370682	BreatheAnalyzer	12/09/2022	Application Under Process(waiting for Technical Examination)
25	S. SudhakarBabu	MECH	370683	AlphanumericToy	12/09/2022	Application Under Process(waiting for Technical Examination)

						Process(waiting for Technical Examination)
35	S. SudhakarBabu	MECH	370693	ElectronicAlphabeticDevicefor Kids	12/09/2022	Application Under Process(waiting for Technical Examination)
36	Dr. S. SudhakarBabu	MECH	369999	AlphanumericToy	27/08/2022	Application Under Process(waiting for Technical Examination)
7	Mr. D. Usen	ECE	202241045989A	Facial Emotion Features Extraction Method on Hardware Using deep Learning Framework for Real Time	12-08-2022	21-10-2022
38	Mr. ChintaVenkataMurali Krishna	CSE	202241006699	A Novel Improved Integrated Sampling Strategy for Software Defect Prediction	08/02/2022	11/02/2022
39	Dr. V. Ramesh Babu	ECE	202241004368A	A Digital Signal Processing System for an Electronic Gaming Device	26/01/2022	04/02/2022
40	Mr. D. Usen	ECE	202141058452A	Face Recognition Using a Novel Deep Learning Techniques and its Impact on Human Resource Management of Profit- Oriented Organizations	15/12/2021	04/02/2022
.1	Dr.S. V.Rama Rao	ECE	202141038830A	Advanced Meta Surface Super state Structure for improvement of Antenna Performance	27/08/2021	10/09/2021
42	Dr. V. Ramesh Babu	ECE	202141023786	A Novel System Based on Random Sample Consensus(RANSAC) for IRIS Non-Ideal Imaging Conditions	28/05/2021	11/06/2021
43	Dr. P. RamaKoteswara Rao Dr. K. Swathi Dr. Ch. Surya Kiran	ECE CSE	202141018141A	Crowd Detection Camera to Maintain Distance and Identify the Subset using AI Based Programming	20/04/2021	14/05/2021
44	Dr. K. Prathyusha	ECE	2021100880	An Artificial Neural network system for Functional MRI Segmentation with CC-BPA	07/04/2021	07/04/2021
45	Dr. G.Shobana	CSE	202111006194A	Recognizing Human Facial Emotion and Detection Utilizing Deep Learning	14/02/2021	19/02/2021
46	Mr. ChintaVenkataMura	CSE	2021100088	A Block Chain Enabled Secure Big Data Computing for Smart	7/01/2021	17/03/2021

Name of the Applicant(s):

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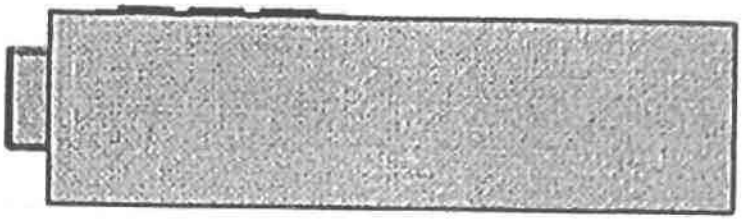
2. Dr. Suneetha Davuluri
3. Venugopal Boppana
4. Dr. M Vekateswara Rao
5. Mr. Sai Srinivas Vellela



Front View

The novelty resides in the shape and configuration of "Modern and User-Friendly Graphical User Interface (GUI) Design for Software" as illustrated.

No claim is made by virtue of this registration in respect of any action of the mechanism whatever or in respect of any mode or principle of construction of the article.

No claim is made by virtue of the registration to any right to the exclusive use of the words, letters, numbers, colour, combination or Trademarks as appearing in the representation.

Dated: 29/11/2023

INTELLECTUAL PROPERTY INDIA

ORIGINAL
क्रम सं/ Serial No. 151340

पेटेंट कार्यालय, भारत सरकार The Patent Office, Government Of India

डिजाइन के पंजीकरण का प्रमाण पत्र | Certificate of Registration of Design

डिजाइन सं. / Design No. : 398959-001

तारीख / Date : 01/11/2023

पारस्परिकता तारीख / Reciprocity Date* :

देश / Country :

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो *AMBIENT CYBERSECURITY ALERT LIGHT RING* से संबंधित है, का पंजीकरण, श्रेणी 26-07 में 1.Mr. Sai Srinivas Vellela 2. Dr. Nagagopiraju Vullam 3.Mr. Lakshma Reddy Vuyyuru 4.Mrs. Ch Sowjanya 5.Dr. M Vekateswara Rao के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class 26-07 in respect of the application of such design to *AMBIENT CYBERSECURITY ALERT LIGHT RING* in the name of 1.Mr. Sai Srinivas Vellela 2. Dr. Nagagopiraju Vullam 3.Mr. Lakshma Reddy Vuyyuru 4.Mrs. Ch Sowjanya 5.Dr. M Vekateswara Rao.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

जारी करने की तिथि :
Date of Issue : 29/12/2023

महानियंत्रक पेटेंट, डिजाइन और व्यापार चिह्न
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[See Rule 22(1)]
RECEIPT

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PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

Date/Time 01/11/2023

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	398959-001		1000	213455	FORM 1	Ambient Cybersecurity Alert Light Ring

TransactionID	Payment Mode	Challan Identification Number	Amount Paid	Head of A/C No
D-0000056568	Online Bank Transfer	01112300041462	1000.00	1475001020000001

Total Amount : ₹ 1000
Amount in Words: Rupees One Thousand Only

* This is a computer generated receipt, hence no signature required.

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FORM 1

APPLICATION FOR REGISTRATION OF DESIGNS

[See section 5 and 44]

(For Fee see First Schedule)	
[A] Insert number of class [B] Insert (in full) address and nationality [B1] Category of applicant [Please tick (✓) for the appropriate category]	You are requested to register the accompanying in Class: 15-00- Machines, not elsewhere specified and Sub-Class 15-03-agricultural and forestry machinery. in the name of: 1. Mr. Sai Srinivas Vellela, an Indian Citizen, Address: Asst. Professor, Dept. of CSE-Data Science, Chalapathi Institute of Technology, Abburi Ragavaiah Nagar, Mothadaka, Guntur District, A.P, Pin-522016. 2. Mrs. Sunkara Santhi Priya, an Indian Citizen, Address: Associate Professor, Dept. of CSE- AI & AIML, Chalapathi Institute of Technology, Abburi Ragavaiah Nagar, Mothadaka, Guntur District, A.P, Pin-522016. 3. Dr. Naga Malleswara Rao Purimetla, an Indian Citizen, Address: Associate Professor, Dept. of CSE, Chalapathi Institute of Technology, Abburi Ragavaiah Nagar, Mothadaka, Guntur District, A.P, Pin-522016. 4. Dr. M Vekateswara Rao, an Indian Citizen, Address: Professor, Dept. of CSE, NRI Institute of Technology, Pothavarappadu, Vijayawada, A.P, India, Pin-521212. 5. Mrs. Sravanthi Javvadi, an Indian Citizen, Address: Asst. Professor, Dept. of CSE, Chalapathi Institute of Technology, Abburi Ragavaiah Nagar, Mothadaka, Guntur District, A.P, Pin-522016.

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS | GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/index.htm)

Application Details

APPLICATION NUMBER	202241072743
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	16/12/2022
APPLICANT NAME	1 . Baburao Markapudi 2 . Kavitha Chaduvula 3 . Ch. V. Murali Krishna 4 . K. V. Daya Sagar
TITLE OF INVENTION	Internet of Things (IoT) Based Battery Energy Distribution Management System and Method Thereof
FIELD OF INVENTION	ELECTRICAL
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ADDITIONAL-EMAIL (As Per Record)	hima@novelpatent.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	16/12/2022
PUBLICATION DATE (U/S 11A)	30/12/2022
REPLY TO FER DATE	12/08/2023

Application Status

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022

(21) Application No.202241058169 A

(43) Publication Date : 21/10/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED EARTHQUAKE RESISTING

(51) International classification :E04H0009020000, G01V0001000000, E02D0027340000, H02B0001540000, A47C0031000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
ABSTRACT ARTIFICIAL INTELLIGENCE BASED EARTHQUAKE RESISTING The turf of seismic activity Engineering has existed in our nation for over 35 years now. Indian Earthquake Engineers have made momentous hand-outs to the seismic safety of a number of important structures in the country. However, as the recent earthquakes have shown, the performance of normal structures during past Indian earthquakes has been less satisfactory. This is mainly due to the lack of awareness amongst most practicing engineers of the special provisions that need to be followed in earthquake resistant design and thereafter in construction. Earthquakes compose one of the supreme hazards of living and assets on the earth. Due to abruptness of their happening, they are least understood and most dreaded. The earthquake resistant construction is considered to be very important to mitigate their effects. This paper presents the concise prerequisites of earthquake resistant construction and a few techniques to improve the resistance of building and building materials to earthquake forces, economically.

No. of Pages : 14 No. of Claims : 3

Head, ECE Department
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POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishna Dist

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(21) Application No.202241058175 A
(22) Date of filing of Application :12/10/2022
(43) Publication Date : 21/10/2022

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED BIONIC HAND

(51) International classification :A61F0002580000, A61F0002720000, A61F0002700000, A61F0002760000, A61F0002500000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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) Abstract :
ABSTRACT ARTIFICIAL INTELLIGENCE BASED BIQNIC HAND Describes the development of a prosthetic hand based on human hand anatomy. The hand phalanges are printed with 3D printing with Polylactic Acid material. One of the main contributions is the investigation on the prosthetic hand joins; the proposed design enables one to create personalized joins that provide the prosthetic hand a high level of movement by increasing the degrees of freedom of the fingers. Moreover, the driven wire tendons show a progressive grasping movement, being the friction of the tendons with the phalanges very low. Another important point is the use of force sensitive resistors (FSR) for simulating the hand touch pressure. These are used for the grasping stop simulating touch pressure of the fingers. Surface Electromyogram (EMG) sensors allow the user to control the prosthetic hand-grasping start. Their use may provide the prosthetic hand the possibility of the classification of the hand movements. The practical results included in the paper prove the importance of the soft joins for the object manipulation and to get adopted to the object surface. Finally, the force sensitive sensors allow the prosthesis to actuate more naturally by adding conditions and classifications to the Electromyogram sensor.

No. of Pages : 28 No. of Claims : 3

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POTHAVARAPPADU (Vill)
Agiripalli (Mdl), Krishna Dist.

(3)

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(57) Abstract :
ABSTRACT MOLECULAR INTERACTIONS IN BINARY MIXTURES OF 2,6 DIMETHYL CYCLOHEXANONE AND CORRELATION WITH THE JOUYBAN-ACREE MODEL The densities (ρ), speeds of sound (u) and viscosities (η) of binary mixtures of 2,6-dimethylcyclohexanone (2,6-DMCY) with substituted anilines (N,N-dimethylaniline (N,N-DMA), N-methylaniline (N-MA)) and aniline (A) measured over the entire composition range at temperatures (303.15, 308.15 and 313.15) K and 0.1 MPa. Using the experimental data, the excess [illegible], excess isentropic compressibility, and deviation in viscosity, excess partial properties of the components at infinite dilution were calculated. Prigogine-Flory-Patterson (PFP) theory is [illegible] to identify the predominant molecular interaction. Jouyban-Acree model, results are discussed in terms of mean relative deviation (MRDs) and individual relative deviation (IRD) between calculated and experimental densities, speeds of sound and viscosities as an accuracy criterion. A good agreement is observed among the excess parameters and FT-IR spectroscopic properties. Fig0]

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(54) Title of the invention : INTELLIGENT FLOOR CLEANING ROBOT

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(57) Abstract :
ABSTRACT INTELLIGENT FLOOR CLEANING ROBOT Automatic floor cleaner is a system that enables cleaning of the floor by the help of highly stabilized and rapidly functionalized electronic and mechanical control system. Current project work targets to use automatic floor cleaner for large floor in house-hold purposes and office floors. The cleaning purpose is specifically carried out by continuous relative motion between a scrubber and the floor surface. During the cleaning and moving operation of vehicle a propulsion mechanism such as driven wheels and guide wheels for the dry tracking on the floor surface to be cleaned, suction of water is carried out by vacuum pump, scrubbing action is done by the scrubber directing water towards rear end. Preferably, a sweeper mechanism is mounted on the body forwarded by propulsion mechanism and operated with such control system for advance sweeping of a debris-laden floor surface. A PID controller is used to govern the motion of system which takes the input from sensor circuit and feeds it back to microcontroller which gives rise to the maintion of wheel in a synchronized manner. The new automatic floor cleaner will save huge cost of labor in future. The basic advantage of this product is that it will be cost effective and no human control is needed. Once it in on mode it will clean the whole room without any omission of surface.

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Design Application Details

Application Number:

370664-001

Cbr Number:

205860

Cbr Date:

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Applicant Name:

1. K V Narasimha Rao **2. M. Naga Swapna Sri** **3. P. Anusha** **4. K. Raja Sekhar**
5. S. Sudhakar Babu **6. Anna Eswara Kumar**

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Application Status:

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Design Application Details

Application Number:

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Applicant Name:

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5. S. Sudhakar Babu **6. Anna Eswara Kumar**

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Design Application Details

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370666-001

Cbr Number:

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Cbr Date:

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5. S. Sudhakar Babu **6. Anna Eswara Kumar**

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Application Number:

370667-001

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Design Application Details

Application Number:

370668-001

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Application Number:

370669-001

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Design Application Details

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370671-001

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Design Application Status

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Design Application Details

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Design Application Details

Application Number:

370678-001

Cbr Number:

205860

Cbr Date:

12/09/2022 13:42:21

Applicant Name:

1. K V Narasimha Rao **2. P. Anusha** **3. M. Naga Swapna Sri** **4. K. Raja Sekhar**
5. S. Sudhakar Babu **6. Anna Eswara Kumar**

Design Application Status

Application Status:

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Design Application Details

Application Number:

370680-001

Cbr Number:

205860

Cbr Date:

12/09/2022 13:42:21

Applicant Name:

1. K V Narasimha Rao 2. P. Anusha 3. M. Naga Swapna Sri 4. K. Raja Sekhar 5. S. Sudhakar Babu 6. Anna Eswara Kumar

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Design Application Details

Application Number:
370681-001

Cbr Number:
205860

Cbr Date:
12/09/2022 13:42:21

Applicant Name:
1. K V Narasimha Rao **2. P. Anusha** **3. M. Naga Swapna Sri** **4. K. Raja Sekhar**
5. S. Sudhakar Babu **6. Anna Eswara Kumar**

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Design Application Details

Application Number:

370682-001

Cbr Number:

205860

Cbr Date:

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Applicant Name:

1. K V Narasimha Rao 2. P. Anusha 3. M. Naga Swapna Sri 4. K. Raja Sekhar 5. S. Sudhakar Babu 6. Anna Eswara Kumar

Design Application Status

Application Status:

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Design Application Details

Application Number:

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Cbr Number:

205860

Cbr Date:

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Applicant Name:

1. K V Narasimha Rao **2. P. Anusha** **3. M. Naga Swapna Sri** **4. K. Raja Sekhar**
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Design Application Status

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Design Application Details

Application Number:

370684-001

Cbr Number:

205861

Cbr Date:

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Applicant Name:

1. K V Narasimha Rao **2. M. Naga Swapna Sri** **3. P. Anusha** **4. K. Raja Sekhar**
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Design Application Details

Application Number:
370685-001

Cbr Number:
205861

Cbr Date:
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Applicant Name:
1. K V Narasimha Rao 2. M. Naga Swapna Sri 3. P. Anusha 4. K. Raja Sekhar
5. S. Sudhakar Babu 6. Anna Eswara Kumar

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Applicant Name:

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Applicant Name:

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5. S. Sudhakar Babu **6. Anna Eswara Kumar**

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THE PATENT OFFICE
डिजाइन के पंजीकरण का प्रमाणपत्र
CERTIFICATE OF REGISTRATION OF DESIGN

डिजाइन सं. / Design No.	:	369999-001
तारीख / Date	:	27/08/2022
पारस्परिकता तारीख / Reciprocity Date*	:	
देश / Country	:	

प्रमाणित किया जाता है कि संलग्न प्रति में वर्णित डिजाइन जो **ALPHANUMERIC TOY** से संबंधित है, का पंजीकरण, श्रेणी **21-01** में 1.M. Venkatesulu 2. Kode Jaya Prakash 3.Dr. S. Sudhakar Babu 4.Dr. Koteswararao Seelam 5.Anna Eswara Kumar के नाम में उपर्युक्त संख्या और तारीख में कर लिया गया है।

Certified that the design of which a copy is annexed hereto has been registered as of the number and date given above in class **21-01** in respect of the application of such design to **ALPHANUMERIC TOY** in the name of 1.M. Venkatesulu 2. Kode Jaya Prakash 3.Dr. S. Sudhakar Babu 4.Dr. Koteswararao Seelam 5.Anna Eswara Kumar.

डिजाइन अधिनियम, 2000 तथा डिजाइन नियम, 2001 के अध्यधीन प्रावधानों के अनुसरण में।
In pursuance of and subject to the provisions of the Designs Act, 2000 and the Designs Rules, 2001.

निर्गमन की तारीख/Date of Issue : 26/12/2022

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/08/2022

(21) Application No.202241045989 A
(43) Publication Date : 19/08/2022

(54) Title of the invention : FACIAL EMOTION FEATURES EXTRACTION METHOD ON HARDWARE USING DEEP LEARNING FRAMEWORK FOR REAL-TIME

(51) International classification :G06K0009000000, G06K0009620000, G06N0003040000, G06T0001200000, G06N0003063000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA
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(57) Abstract :
A facial emotion features extraction method on hardware using deep learning framework for real-time emotion detection, wherein CNN building framework for designing real-time CNN's, therein focuses on implementing face detection, face recognition and face emotion recognition through Facial emotion features based algorithms on GPU, and FPGA frame work.Three phases that is features extraction on FPGA, features extraction on GPU, and is a real-time computer vision applications matching features which are created by models.

No. of Pages : 10 No. of Claims : 2

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Application Details

APPLICATION NUMBER	202241006699
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	08/02/2022
APPLICANT NAME	1 . Prof.M.James Stephen 2 . Mr.K.Nitalaksheswara Rao 3 . Prof. P.V.G.D. Prasad Reddy 4 . Mr.Ch.V.Murali Krishna
TITLE OF INVENTION	A Novel Improved Integrated Sampling Strategy for Software Defect Prediction
FIELD OF INVENTION	COMPUTER SCIENCE
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (U/S 11A)	11/02/2022

Application Status

APPLICATION STATUS	Awaiting Request for Examination

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/01/2022

(21) Application No.202241004368 A
(43) Publication Date : 04/02/2022

(54) Title of the invention : A Digital Signal Processing System for an Electronic Gaming Device

(51) International classification :G07F0017320000, G06N0003020000, A63F0013980000, A63F0013350000, G06F0012140000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Mr.P.Karthik
4)Dr.A.Sathishkumar
5)Dr.Ramesh Babu Vallabhaneni
6)Dr.S.China Venkateswarlu
7)Dr.Vikas Thada
8)Dr.Utpal Shrivastava
9)Mr.P.S.Subhashini Pedalanka
10)Dr.J.V.K.Ratnam
Name of Applicant : NA
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(57) Abstract :
[035] The present invention discloses a digital signal processing system for an electronic gaming device and method thereof. The system includes, but not limited to, an input-output interface adapted to receive and process an input signal from a user device; an artificial intelligence-based interface provided with a processing unit suitable for receiving data communication representing a plurality of game states and game output from the input-output interface interface; a display unit to animate an automated virtual assistant on the input-output interface. Further, a smart game output console adapted to convert and translate the plurality of game states and game output from the input-output interface into animated behavior information and digital signal information for input to the user device. Accompanied Drawing [FIG. 1]

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(21) Application No.202141058542 A
(22) Date of filing of Application :15/12/2021
(43) Publication Date : 04/02/2022

(54) Title of the invention : Face Recognition using a Novel Deep Learning Techniques and its Impact on human resource management of profit-oriented organizations

(51) International classification :G06K0009000000, G06K0009620000, G06Q0010060000, G06Q0010100000, G06Q0020400000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present invention relates to face recognition using a novel deep learning techniques and its impact on human resource management of profit-oriented organizations. Said method consisting the steps of: detecting face and acquisition of face image database (masked faces, unmasked faces, and partially masked face images) using smart devices; pre-processing and filtering of the captured face database; processing the pre-processed grayscale image ; extracting discriminatory features from the pre-processed and enhanced by the deep learning models/frameworks; storing captured face image database obtained in step with other user's recorded information and assigning an unique number to each users in a server based database; identifying/classifying the test face image of individuals by comparing the stored face image database in step to a extracting features from the captured in real time using deep learning techniques; wherein the method and system utilize the web services/interfaces for getting face images as test data from users for accurate matching with stored facial features; after the matching of facial features, and wherein the learning system enables users to use it as working Android system to detect people in crowd near. Face recognition assist an effective HRM which further in developing human resources into high quality and efficient workforce thus enabling the organisation to obtain a competitive advantage through their people. In contrast, inefficient workforce can increase labour cost and decrease organisation productivity.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/08/2021

(21) Application No.202141038830 A
(43) Publication Date : 10/09/2021

(54) Title of the invention : ADVANCED METASURFACE SUPERSTRATE STRUCTURE FOR IMPROVEMENT OF ANTENNA PERFORMANCE

(51) International classification	:B05D0003060000, H01Q0001320000, H01Q0015000000, H01M0010040000, H01Q0019060000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
ABSTRACT Our development Metasurface Superstrate Advanced Structure for just Antenna Performance Enhancement is a metasurface progressed superstrate structure stacked twofold band microstrip line-dealt with little fix recieving wire. The creation recieving wire was moved toward a mud filled bioplastic sandwich substrate with a high dielectric predictable. The created 7 — 6 part, square-shaped, single-sided on a very basic level dealt with the information move limit and gain of the proposed recieving wire. The creation joined an opened fix recieving wire that suitably extended the intentional working information transmission from 12.98% to 18.887% and from 13.82% to 22.9% in the lower and upper gatherings, independently. The ordinary increment of the proposed recieving wire was improved from 2.121 dBi to 3.012 dBi in the lower band and from 4.110 dBi to 5.2348 dBi in the upper band appeared differently in relation to the fix radio wire alone.

No. of Pages : 13 No. of Claims : 5

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion
Ministry of Commerce & Industry,
Government of India

INTELLECTUAL PROPERTY INDIA

Application Details

APPLICATION NUMBER	202141023786
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	28/05/2021
APPLICANT NAME	1 . Mr.G R Anil 2 . Dr.Dumala Anveshini 3 . Dr.Shaik Meera Sharief 4 . Dr Ramesh Babu Vallabhaneni 5 . Dr.Karthikeyan Palaniappan 6 . Mrs.R.Janaki 7 . Dr.T.Sheela 8 . Dr.Sushma Jaiswal 9 . Mr.Tarun Jaiswal 10 . Mr.Miranji Katta
TITLE OF INVENTION	A NOVEL SYSTEM BASED ON RANDOM SAMPLE CONSENSUS (RANSAC) FOR IRIS RECOGNITION IN NON-IDEAL IMAGING CONDITIONS
FIELD OF INVENTION	COMPUTER SCIENCE
E-MAIL (As Per Record)	harshva@live.com
ADDITIONAL-EMAIL (As Per Record)	harshvats20@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	-
PUBLICATION DATE (U/S 11A)	11/06/2021

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(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/04/2021

(21) Application No.202141018141 A

(43) Publication Date : 14/05/2021

(54) Title of the Invention : CROWD DETECTION CAMERA TO MAINTAIN DISTANCE AND IDENTIFY THE SUSPECT USING AI-BASED PROGRAMMING

(51) International classification	:G06K0009000000, G06K0009200000, G09B0007000000, F16M0011420000, A61P0037020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Our invention Crowd Detection Camera to Maintain the Distance and Identify the Suspect using AI- Based Programming is a Smart appliance with built-in advanced cameras, such as the moveable Nest Cam and Amazon Echo Look, are becoming pervasive. The invention is also a hold the promise of bringing high fidelity rich sensing into our complex home system and the workplaces and other environments like office, university, engineering, meeting room, etc. The invention is also including a Despite recent and impressive unique advances, complex intelligent systems are still global in the types of open sensing questions they can answer and more importantly, do not generalize across diverse human environments.The invention is a researchers have investigated hybrid covered methods that collect human labels to advanced bootstrap automatic processes and the However, deployments and confined to institutional defined settings, leaving open complex questions about the scalability approach. The invention ibe our iterative unique development of Zensors++(Z++) a 1/1 full-stack Crowd-Artificial intelligent adsensing system that moves real-time significantly beyond prior global work in terms of scale, question tency, economic feasibility, unique feature. Delay feature, Real time function, etc.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/04/2021

(21) Application No.202141018141 A

(43) Publication Date : 14/05/2021

(54) Title of the Invention : CROWD DETECTION CAMERA TO MAINTAIN DISTANCE AND IDENTIFY THE SUSPECT USING AI-BASED PROGRAMMING

(51) International classification	:G06K0009000000, G06K0009200000, G09B0007000000, F16M0011420000, A61P0037020000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:NA :NA
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(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :
Our invention Crowd Detection Camera to Maintain the Distance and Identify the Suspect using AI- Based Programming is a Smart appliance with built-in advanced cameras, such as the moveable Nest Cam and rotation Amazon Echo Look, are becoming pervasive. The invention is also a hold the promise of bringing high fidelity, [illegible] ly rich sensing into our complex home systems and the workplaces and other environments like office, university, engineering, meeting room, etc. The invention is also including a Despite recent and impressive unique advances, complex [illegible] intelligent systems are still global in the types of open sensing questions they can answer and more importantly, do not generalize across diverse human environments.The invention is a researchers have investigated hybrid [illegible] powered methods that collect human labels to advanced bootstrap automatic processes and the However, deployments have [illegible] and confined to institutional defined settings, leaving open complex questions about the scalability approach. The invention [illegible] ibe our iterative unique development of Zensors++(Z++) a 1/1 full-stack Crowd-Artificial intelligent advanced [illegible] using system that moves real-time significantly beyond prior global work in terms of scale, question [illegible] tency, economic feasibility, unique feature. Delay feature, Real time function, etc.

No. of Pages : 19 No. of Claims : 6

Australian Government

IP Australia

CERTIFICATE OF GRANT

INNOVATION PATENT

Patent number: 2021100880

The Commissioner of Patents has granted the above patent on 7 April 2021, and certifies that the below particulars have been registered in the Register of Patents.

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Title of Invention:

AN ARTIFICIAL NEURAL NETWORK SYSTEM FOR FUNCTIONAL MRI SEGMENTATION WITH CC-BPA

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Term of Patent:

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Dated this 7th day of April 2021

Commissioner of Patents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2021
(21) Application No.202111006194 A
(43) Publication Date : 19/02/2021

(54) Title of the invention : RECOGNIZING HUMAN FACIAL EMOTION AND DETECTION UTILIZING DEEP LEARNING

(51) International classification :G06K0009620000, G06K0009000000, C10GN0003040000, G06N0003080000, G06N0020000000
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :
Feelings are a major piece of human correspondence. Detecting and recognizing human emotion is a big challenge in computer vision and artificial intelligence. Though there are methods to identify expressions using machine learning and Artificial Intelligence techniques, here we use deep learning and image classification method to recognize expressions and classify the expressions according to the images. With the remarkable success of Deep Learning the different types of architecture techniques are exploited to achieve a better performance. We give an extensive learning of Facial appearance recognition with Deep Learning techniques which incorporates diverse Neural Network Algorithms utilized with various datasets and its productivity result.

No. of Pages : 10 No. of Claims : 6

Government

ustralia

CERTIFICATE OF GRANT
INNOVATION PATENT

ent number: 2021100088

Commissioner of Patents has granted the above patent on 17 March 2021, and certifies that the below ticulars have been registered in the Register of Patents.

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Title of invention:

A BLOCKCHAIN ENABLED SECURE BIG DATA COMPUTING FOR SMART CITIES AND SMART HEALTHCARE SYSTEM USING INTERNET OF THINGS

Name of Inventor(s):

Ankalu Vuyyuru; Veera; Subhahan, D. Abdus; Naureen, Ayesha; Anjanamma, Chappidi; Rao, N. Srinivasa; M., Maravarman; Vemula, Punnarao; Krishna Chinta, Murali; Sivakumaran, A.R. and Thatavarti, Satish

Term of Patent:

Eight years from 7 January 2021

Dated this 17th day of March 2021

Commissioner of Patents

COMMONWEALTH OF AUSTRALIA
AUSTRALIA
PATENT OFFICE

PATENTS ACT 1990

The Australian Patent Office is the official record and should be referred to for the full details [illegible] Right

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2020

(21) Application No.202041056988 A
(43) Publication Date : 19/02/2021

(54) Title of the invention : Secured Mutual authentication Protocol using Physical Unclonable function (PUF) for IOT smart home devices

(51) International classification :H04L0009320000, H04L0009080000, H04L0029080000, H04W0084180000, G06F0021720000
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The Internet of Things (IoT) is the collection of computing devices or things that have the capabilities to leverage the Internet to communicate messages. The interconnected entities involve advanced computing devices and daily gadgets equipped with sensing devices. The Internet of Things also has persuaded much of the emerging manufacturing sectors including smart cities, vehicles and medical advancements. This invention proposes the Physical Unclonable function (PUF) to develop the secured mutal authentication process for IOT smart home devices. This invention demonstrates that perhaps the recommended authentication method is safe toward varying sorts of countermeasures and is incredibly effective in aspects of storage space, dedicated servers and energy demand, with low cost variability and reduced marginal connectivity. In this context, the emerging authentication process is quite attractive and ideal for resource-restricted and security-critical smart home applications.

No. of Pages : 14 No. of Claims : 7

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

सत्यमेव जयते
GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	202041034966
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	14/08/2020
APPLICANT NAME	1 . Dr. B. NANCHARAIAH 2 . APPARAO TOLADA 3 . SK KHADER ZELANI 4 . MALLAMPATI PURNA KISHORE
TITLE OF INVENTION	GPS LOCATION BASED ONLINE VOTING: ONLINE VOTING USING GPS LOCATION AUTHENTICATION, BLUETOOTH ENABLED MOBILE PHONE.
FIELD OF INVENTION	ELECTRONICS
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E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	04/09/2020

Application Status

View Documents

INTELLECTUAL PROPERTY INDIA

GOVERNMENT OF INDIA

Controller General of Patents, Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	202041030621
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	17/07/2020
APPLICANT NAME	1 . Mr CHINTA VENKATA MURALI KRISHNA 2 . Mr. BALA BRAHMESWARA KADARU 3 . Mr. VEERA ANKALU VUYYURU 4 . Dr. SURESH J S. 5 . Dr.C.V.P.R.PRASAD 6 . Mrs V ANITHA 7 . Dr. RAVIKIRAN K 8 . Mr. K M RAYUDU 9 . V VAMSIKRISHNA T 10 . CH V SATYANARAYANA 11 . Mr. ARSHAD MOHAMMED 12 . Mr. K.NITALAKSHESWARA RAO
TITLE OF INVENTION	SMART FARM FENCE
FIELD OF INVENTION	COMMUNICATION
E-MAIL (As Per Record)	arshad.eee202@gmail.com
ADDITIONAL-EMAIL (As Per Record)	arshad.eee202@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	17/07/2020
PUBLICATION DATE (U/S 11A)	31/07/2020

Application Status

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INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

GOVERNMENT OF INDIA

Controller General of Patents,Designs and Trademarks
Department of Industrial Policy and Promotion
Ministry of Commerce and Industry

Application Details

APPLICATION NUMBER	202041029571
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	11/07/2020
APPLICANT NAME	1 . Dr.K.NAGESWARARAO 2 . Mr.CHINTA VENKATA MURALI KRISHNA 3 . Mr. VEERA ANKALU VUYYURU 4 . Mr. BALA BRAHMESWARA KADARU 5 . Mr. K SAI PRASANTH 6 . Mrs.B.SUNEETHA 7 . Mr. MOHAMMED UMAIR QUADRI 8 . Dr CH. SATYANANDA REDDY 9 . Dr SRINU NAIK RAMAVATHU 10 . Mr. K.NITALAKSHESWARA RAO 11 . Mr.ARSHAD MOHAMMED
TITLE OF INVENTION	SMART HAND SANITIZER MAKING AND DISPENSING MACHINE
FIELD OF INVENTION	CHEMICAL
E-MAIL (As Per Record)	arshad.eee202@gmail.com
ADDITIONAL-EMAIL (As Per Record)	arshad.eee202@gmail.com
E-MAIL (UPDATED Online)	naiknaiknaik@gmail.com
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	12/07/2020
PUBLICATION DATE (U/S 11A)	31/07/2020

Application Status

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :[illegible]/07/2020

(21) Application No.202041028[illegible] A

(43) Publication Date : 17/07/2020

(54) Title of the invention : VIRUS CONTROL IN SHRIMP CULTIVATION BASED ON INTERNET OF THINGS

(51) International classification	:H04L 29/08	(71)Name of Applicant : 1)Dr. Tummalapalli Subba Mastan Rao Address of Applicant :Mellempudi (PO), Tadepalli (Mandal), Guntur District, Andhra Pradesh, India, Pin-522303 Andhra Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. Tummalapalli Subba Mastan Rao
(33) Name of priority country	:NA	2)Dr.Vijaya Sri Kompalli
(86) International Application No Filing Date	:NA :NA	3)DIVYASRI KOMPALLI
(87) International Publication No	:NA	4)G.V.S.NARAYANA
(61) Patent of Addition to Application Number Filing Date	:NA :NA	5)Mr Dowlf Raju Kappala
(62) Divisional to Application Number Filing Date	:NA :NA	6)Dr. PILLI SHYAMALA MADHURI 7)Vallepupalli Ravi Raja 8)MADHU KRISHNA

(57) Abstract :
ABSTRACT: Title: Virus Control in Shrimp Cultivation based on Internet of Things The present invention discloses a system for the detection of virus formation in shrimp cultivation pond. The system comprises shrimp pond installed with a pond system 101 comprising in connection with the pond water that includes an underwater image capturing means 102, a wireless transmitter 103, a water parameter sensing means 104, a controller 105 and an alert means 106. The system 100 further comprises a cloud processing means 107 and an external terminal 108. The cloud processing means utilizes artificial intelligence to detect the virus formation. Thus, the proposed system provides a low cost investment to detect the virus formation and allows the farmer to take proactive decisions in advance to stop proliferation of virus.

No. of Pages : 18 No. of Claims : 9

INTELLECTUAL PROPERTY INDIA
PATENTS | DESIGNS | TRADE MARKS
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GOVERNMENT OF INDIA

Controller General of Patents, Design and Trade
Department of Industrial Policy and Pro
Ministry of Commerce and Ind

Application Details

APPLICATION NUMBER	202041028079
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/07/2020
APPLICANT NAME	1 . Mr K.NITALAKSHESWARA RAO 2 . Dr Ch. SATYANANDA REDDY 3 . Mr CHINTA VENKATA MURALI KRISHNA 4 . Mr. BALA BRAHMESWARA KADARU 5 . Ms O. ARUNA 6 . Dr AMIT SHARMA 7 . Mr.GUNTUKU RAVI KIRAN 8 . Mr ARSHAD MOHAMMED
TITLE OF INVENTION	PLANT GROWTH MANAGEMENT SYSTEM
FIELD OF INVENTION	AGRICULTURE ENGINEERING
E-MAIL (As Per Record)	arshad.eee202@gmail.com
ADDITIONAL-EMAIL (As Per Record)	arshad.eee202@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	01/07/2020
PUBLICATION DATE (U/S 11A)	10/07/2020

Application Status

View Documents

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(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/04/2020

(21) Application No.[illegible] A

(43) Publication Date : [illegible]

(54) Title of the invention : SYSTEM AND METHOD FOR AN AUTOMATIC DETECTION OF [illegible]

(51) International classification	:[illegible], [illegible], [illegible], [illegible], [illegible]	(71)Name of Applicant : 1)Dr. VENKATA DAYA SAGAR KETARAJU Address of Applicant :Flat No.[illegible] , [illegible] Heights, Panchayat Office Back, [illegible], [illegible] Mandal, Krishna District. Andhrapradesh-521 137. India Andhra Pradesh India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	1)Dr. VENKATA DAYA SAGAR KETARAJU
(33) Name of priority country	:NA	2)P.S.G.Aruna Sri
(86) International Application No	:NA	3)Dr. D.B.K.Kamesh
Filing Date	:NA	4)BALA BRAHMESWARA KADARU
(87) International Publication No	: NA	5)SRIDEVI SAKHAMURI
(61) Patent of Addition to Application Number	:NA	6)KRISHNAVENI KOMMURI
Filing Date	:NA	7)Dr. M.Siva Ganga Prasad
(62) Divisional to Application Number	:NA	8)Dr. S.Narayana
Filing Date	:NA	9)Chinta Venkata MuraliKrishna
		10)M. TRINATHBASU
		11)Dr. RAMESH KUMAR MOJJADA
		12)Dr. Mohammed Ali Hussain

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for an automatic inspection and continuous monitoring of a rail track comprising: a plurality of rail segments interconnected with a plurality of sensor nodes, whereby the plurality of sensor nodes configured to detect the conditions of the plurality of rail segments; a processing device configured to receive the conditions of the plurality of rail segments from the plurality of sensor nodes and the processing device configured to transmit the conditions of the plurality of rail segments to a cloud server, whereby the cloud server configured to update the time to time conditions of the plurality of rail segments; and a computing device configured to receive the conditions of the plurality of rail segments through the cloud server.

No. of Pages : 19 No. of Claims : 8

(13)

(18)

Form 3
THE PATENTS ACT.1970
(39 OF 1970) &
THE PATENTS RULES, 2003
STATEMENT AND UNDERTAKING UNDER SECTION 8
(See section 8: Rule 12)

Patent Title: **"FA-IATM : FINGERPRINT AND PIN(6-DIGIT) AUTHENTICATION TO ENHACE SECURITY THE INTELLIGENT AUTOMATIC TELLER MACHINE"**

Modify Patent Title:" **FA-ATM : FINGERPRINT & PIN AUTHENTICATION TO ENHANCE SECURITY OF THE AUTOMATIC TELLER MACHINE"**

Patent No: 201941045814 Apply Date: 11/11/2019 Modification Date: 12/11/2019

1. I/We hereby declare:

Name	Nationality	Address
DR.B.RAJA RAO (B.E.,M.TECH.,PH.D. ASSOCIATE PROFESSOR & H.O.D, E.C.E DEPARTMENT)	AN INDIAN NATIONALITY	DADI INSTITUTE OF ENGINEERING AND TECHNOLOGY,ANAKAPALLE-531002, VISAKHAPATNAM, ANDHRA PRADESH,INDIA.
DR.S.VIJAYARAGHAVAN (M.TECH., MISTE., PH.D. ASSISTANT PROFESSOR-II, E.C.E DEPARTMENT)	AN INDIAN NATIONALITY	SRI CHANDRASEKHARENDRA SARASWATHI VISWA MAHAVIDYALAYA, KANCHIPURAM , TAMILNADU - 631561. INDIA.
DR.B.B.M .KRISHNA KANTH (M.TECH.,MISTE.,PH.D.)	AN INDIAN NATIONAL	DOOR NO :13-5-38,GUNUPUDI, BHIMAVARAM-534201, ANDHRA PRADESH ,INDIA.
S.V.RAMA RAO (M.TECH.,(PH.D). ASSOCIATE PROFESSOR IN E.C.E DEPARTMENT)	AN INDIAN NATIONAL	NRI INSTITUTE OF TECHNOLOGY, AGIRIPALLI,VIJAYAWADA- 521212,ANDHRA PRADESH,INDIA.
J.V SURESH BABU (ASSOCIATE PROFESSOR IN CIVIL ENGINEERING DEPARTMENT)	AN INDIAN NATIONAL	K.K.R & K.S.R INSTITUTE OF TECHNOLOGY & SCIENCES, GUNTUR, ANDHRA PRADESH--522017,INDIA.

2. Name, Address and nationality of a joint applicant. NA

(1) That i/we have not made any applicant for the same/ substantially the same invention outside India.

Or

(2) That i/we who have made this application no:.....dated.....along / joint with ....., made for the same/ substantially same invention, application(s) for patent in the other countries, the particulars of which are given below:

Name of country	Date of application	Application no.	Status of the application	Date of publication	Date of grant

3. Name and address of the Assignee	(3) That the rights in the application(s) have/have been assigned. to..... that I/We undertake that upto the date of grant of the patent by the controller, i/we would keep him informed in writing the details regarding corresponding applications for patents filed outside India within six months from the date of filing of such application. Dated 12/11/19
4. To be signed by the applicant or his authorized registered patent agent.	DR.B.RAJA RAO (B.E.,M.TECH.,PH.D. ASSOCIATE PROFESSOR & H.O.D, E.C.E DEPARTMENT)

Head, ECE Department
NRI Institute of Technology
POTHAVARAPPADU (VIII)
Agiripalli (Mdl), Krishna Dist.

Office of the Controller General of Patents, Designs & Trade Marks
Department of Industrial Policy & Promotion,
Ministry of Commerce & Industry,
Government of India

(http://ipindia.nic.in/index.htm)

INTELLECTUAL PROPERTY INDIA (http://ipindia.nic.in/index.h

Application Details

APPLICATION NUMBER	201941039845
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	01/10/2019
APPLICANT NAME	1 . DR.D.RATHNA KISHORE 2 . D SUNEETHA 3 . DR. RIZWAN PATAN 4 . DR. K.SURESH
TITLE OF INVENTION	SYSTEM AND METHOD FOR DATA SECURITY USING DNA CRYPTOGRAPHY BASED ENCRYPTION
FIELD OF INVENTION	COMMUNICATION
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ADDITIONAL-EMAIL (As Per Record)	prizwan5@yahoo.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	18/10/2019

Application Status

APPLICATION STATUS	Awaiting Request for Examination

View Documents

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/05/2019

(21) Application No.201941020783 A
(43) Publication Date : 07/06/2019

(54) Title of the invention : A DEEP LEARNING MODEL FOR STUDENT FUTURE PREDICTION

(51) International classification :G08B21/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)Dr. Tummapudi Subha Mastan Rao
Address of Applicant :# 7-22, Mellempudi (PO), Tadepalli Mandal, Guntur District, Andhra Pradesh, India- 522303. Andhra Pradesh India
(72)Name of Inventor :
1)Dr. Tummapudi Subha Mastan Rao
2)Dr.G.Syam Prasad
3)Dr.Chitta Venkata Phani Krishna
4)Dr.Rajendra Kumar Ganiya
5)Dr.L.Ravi Kumar
6)Dr.Mula Malyadri
7)Dr.J.S.V.R.S.Sastry
8)Dr.Dileep Kumar Padidem
9)Dr.Amarendra Kothalanka
10)Dr.P.Rama Koteswara Rao
11)Dr.Narasimha Banothu
12)Dr.B.Raja Srinivasa Reddy

(57) Abstract :
Title: A Deep Learning Model for Student Future Prediction The present disclosure discloses a deep learning model that can predict student future by considering scores under various essential skills such as critical thinking, creative thinking and behavior skills like explaining way, expressions, confidence levels, eye contact, body language, and thereof along with other personal details that impact on placements and increases the employability of the student. The deep learning model record video of multiple parameters of the student during the test and assign, extract and processes weights under each skill category into processed data. The model trains the Artificial Neural Network (ANN) using the training set and evaluates testing set. The deep learning model understands and predicts the student where he/she can fit in the industry based on student capabilities and behavior skills scores.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA

(21) Application No.201841031036 A

(22) Date of filing of Application :20/08/2018

(43) Publication Date : 21/02/2020

(54) Title of the invention : AUTOMATIC BIKE TURNING INDICATOR USING 555 IC

(51) International classification	:B60Q1/34; B60Q9/00; B62J6/005	(71)Name of Applicant : 1)DR. PAMARTHI RAMA KOTESWARA RAO Address of Applicant :1-397/B, OPP GOVT JR COLLEGE, AGIRIPALLI (PO & MD), KRISHNA DIST, ANDHRA PRADESH-521211, INDIA. Andhra Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)DR. PAMARTHI RAMA KOTESWARA RAO
(87) International Publication No	:NA	
(61) Patent of Addition to Application Number Filing Date	: NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :
An intelligent turn signal control System for turning on and off left and right turn signals in a vehicle includes a control unit, such as an antilock braking system, with designed hardware operably disposed on a vehicle, a driver interface switch assembly as input to the control unit. One accelerometer sensor transmits differential wheel movement data as input to the control unit, a circuit drives turn signal indicator lamps from conditionally computed output data from the control unit to turn on and off turn signals in a situation-appropriate manner. Upon turn signal indication intent data input from the driver, extensive travel and turn data is computed, including yaw rotation and steering system position to turn off or cancel the turn signal at the appropriate point.

No. of Pages : 10 No. of Claims : 7

NRI INSTITUTE OF TECHNOLOGY

(Autonomous)
(Accredited by NAAC with A-Grade:: ISO 9001-2015 Certified)
(Approved by AICTE, New Delhi)
POTHAVARAPPADU (V), (via) Nunna, Agiripalli (M), Krishna District, A.P.,E-mail: principal@nriit.edu.in,nriit.edc@gmail.com, iic@nriit.edu.in , epic@nriit.edu.in
Website: http://nriit.edu.in/innovation-entrepreneurship/

INSTITUTION'S INNOVATION COUNCIL

"E.P.I.C & I.I.C"

(Entrepreneurship Promotion and Incubation Center & Institution Innovation Council)

About Entrepreneurship Development Cell @ NRIIT

Entrepreneurship and Innovation are critical for the growth of any economy, in a continuously increasing competitive world. They become even more critical for India as its demographic dividend can only be realized with rapid creation of employment and income generation opportunities.

Incubation is a process which tends to be activated whenever there is a need to support Entrepreneurs in developing their own business. The process, or parts of it, is put in place whenever there is a need of nurturing would-be entrepreneurs to think over and further develop the business idea and transforming it into a viable and sustainable activity.

Entrepreneurship Development Cell (E.D.C) in NRI Institute of Technology was started as N.E.A.N (Nurturing Entrepreneurs At NRI) in the year 2013 with the aim of developing and strengthening the entrepreneurial qualities in the budding professionals who are passionate in starting their own startup/ventures. In February 2020 N.E.A.N was renamed as ***"E.P.I.C"*** (Entrepreneurship Promotion & Incubation Center) to outreach the stake holders more effectively. The goal of Entrepreneurship Promotion & Incubation Center (E.P.I.C) at NRI Institute of Technology (here after represented by NRI-E.P.I.C) is to

Mission

1. To make the students vigilant about the Entrepreneurial path by inspiring them through various activities.
2. To serve as a catalyst for entrepreneurship by supporting and incubating entrepreneurial ideas.
3. To become the center of excellence to motivate and enable the students to become entrepreneurs and achieve success in initiating and developing their own enterprises.

Objectives of NRI-E.P.I.C & I.I.C

1. To organize Entrepreneurship Awareness Camps, Entrepreneurship Development Programmes, Boot camps, Seminars, Guest lectures and Faculty Development Programmes.
2. To guide and assist prospective entrepreneurs on various aspects such as preparing project reports, obtaining project approvals, loans and facilities from agencies of support system, information on technologies, etc.
3. To arrange Industry visits for the prospective entrepreneurs to gain practical knowledge about the production/services.
4. To conduct skill development training Programmes leading to self-employment.
5. To create and promote the Entrepreneurial culture in the Institution.
6. To foster the linkages between the Institution, Industries and other related organization's engaged in promoting Small & Medium Enterprises (SMEs) and Non-Government Organizations (NGOs).
7. To catalyze the knowledge-based enterprises for promoting employment opportunities with the innovative ideas.
8. To address the emerging challenges and opportunities relating to SMEs and micro enterprises.

NRI-E.P.I.C & I.I.C facilitates the following for the young generation entrepreneurs.

- Arrange skill development sessions for the budding Entrepreneurs to increase their confidence level.
- Arrange webinars/seminars and online/offline training sessions for students to get used to the technical's of Entrepreneurship

Significant Achievements

Collaborations / Linkages

S.No	Name of the Unit/Organization	Year of Collaboration
1	BIS Standards Clubs	2022 – 2023
2	Atal Tinkering Lab Schools	2021 – 2022
3	Entrepreneurship, Innovation and Start-Up Centre (E.I.S.C) - APSCHE	2020 – 2021
4	National Rural Entrepreneurship Mission - Rural Entrepreneurship Development Cell	2020 – 2021
5	Venture Development Center (VDC) - APSSDC	2019 – 2020
6	Institution Innovation Council (IIC)	2018 – 2019

Funds / Grants Received

S.No	Name of the Unit/Organization	Grant Year	Amount
1	National Commission for Women, Govt. of India	2022 – 2023	Rs 1,00,000/- (One Lakh Rupees)
2	KVIC, Govt. of India	2022 – 2023	Rs 50,000/- (Fifty Thousand Rupees)
3	IIC -MoE, Govt. of India	2021 – 2022	Rs 12,000/- (Twelve Thousand Rupees)
4	KVIC, Govt. of India	2019 – 2020	Rs 15,000/- (Fifteen Thousand Rupees)
5	NSTEDB, DST – NIMAT Project 2019 – 2020	2019 – 2020	Rs 40,000/- (Forty Thousand Rupees)
6	NSTEDB, DST – NIMAT Project 2018 – 2019	2018 – 2019	Rs 60,000/- (Sixty Thousand Rupees)

Exposure And Field Visit for Problem Identification	To help students understand about the practical aspects of production, marketing, labour relations. Industrial visits helped them gain hands-on experience of how industry operations are executed, provided opportunity for active /interactive learning	(01 Day) 14-09-2023	99 Students from Science & Technology background from NRI Institute of Technology
Standards Writing Competition	To create awareness about standards and how standards are written	(01 Day) 07-09-2023	42 Students from Science & Technology background from NRI Institute of Technology
Standards Writing Competition	To create awareness about standards and how standards are written	(01 Day) 02-09-2023	51 Students from Science & Technology background from NRI Institute of Technology
Standards Writing Competition	To create awareness about standards and how standards are written	(01 Day) 01-09-2023	40 Students from Science & Technology background from NRI Institute of Technology
A.Y: 2022 – 2023			
Inter/Intra Institutional Start-up Competition and Reward Best Start-ups – Manage through YUKTI-NIR	To make them aware of Creation Ideas that leads to Entrepreneurship	(01 Day) 28-07-2023	84 Students from Science & Technology background from NRI Institute of Technology
National Commission for Women – Capacity Building and Personality Development Programme	Course will focus on preparing students for the employment market. Sometimes because of lack of confidence individual may not be able to demonstrate their professional and communication skills. This course will focus on learning	(01 Day) 19-04-2023	300 Female Students from Science & Technology background from NRI Institute of Technology

	any country by bringing new ideas and innovation to the market.		prototypes which were very inspiring.
One day webinar on Azadi Ka Amrit Mahotsav	The main objective of this program is to sensitize the faculty members, researchers and students about the concept of Innovation in India.	(01 Day) 15-08-2022	56 Students from Science & Technology background from NRI Institute of Technology
Exhibition on creative Ideas, innovations and prototypes	The main objective of this program is to sensitize the faculty members, researchers and students about the concept of entrepreneurship	(01 Day) 13-08-2022	94 Students from Science & Technology background from NRI Institute of Technology
Participation of IIC Institutions in IIC Regional Meets	The objective of the meet was to foster innovation and entrepreneurship culture among the students.	(01 Day) 12-08-2022	525 faculty representatives from over 135 IIC institutions from the South Sero Region (Telangana) took part in the meet to promote a culture of innovation and entrepreneurship in Higher Educational Institutions (HEIs)
Innovation Ambassadors Training Program 2022 - "Foundation Level"	MIC started Innovation Ambassador Program with an aim to train the faculties and students in four highly sought-after themes viz. Design Thinking; IPR & Technology Transfer; Pre- Incubation & Incubation Management; and Entrepreneurship Development.	Total 15 Sessions of 30 contact hours	08 Faculty benefited of this training program and will join the network of IIC-Innovation Ambassador and perform the role of mentor in their respective IICs and nearby Institutions, which will provide

Council			
Impact Lecture Series-Session: I organised by I.I.C in collaboration with E.P.I.C, sponsored by MoE's Innovation Council	The Impact lecture series scheme requires IIC institution to organise at least two sessions in the field of innovation, IPR, and start up by inviting successful innovators, patent expert and entrepreneurs and resource persons from innovation and start-upecosystem.	(01 Day) 17-06-2022	274 Students from Science & Technology background from NRI Institute of Technology & other Institutions
A.Y: 2021 – 2022			
Field Visit of Technology Transfer Centre- ATL Narasapuram	Objective of this program is to sensitize the faculty members, researchers and students about the concept of Innovation and entrepreneurship	(01 Day) 24-04-2022	06 Students from Science & Technology from NRI Institute of Technology
World Earth Day 2022	To raise awareness about protecting our planet, Earth, to take corrective actions to save our plane and to instill a sense of moral responsibility	(01 Day) 22-04-2022	55 Students from Science & Technology from NRI Institute of Technology
Poster presentation contest on Idea and Innovations	The main objective of this program is to sensitize the students and researchers about the Idea generation and poster presentations	(01 Day) 22-04-2022	43 Students from Science & Technology from NRI Institute of Technology
National Science Day-2022	National Science Day is celebrated every year on February 28, the day when CV Raman discovered the Raman Effect, a phenomenon in spectroscopy	(01 Day) 28-02-2022	35 Students from Science & Technology from NRI Institute of Technology
Seminar on My Story" by Smt.T.Anuradha, C.E.O, Black Bucks Engineers Pvt. Ltd.	The presenter who herself is a source of motivation to students gave encouraging examples from her own life and inspired students to be a self-motivator.	(01 Day) 17-01-2022	110 Students from Science & Technology background & M.B.A from NRI Institute of Technology

& Technology, Govt of India	towards Entrepreneurship		
Online EDP on How to Start Your Own Business	The programme aims at imparting to the learners a thorough insight into the various aspects of enterprise creation, technical know-how, credit sources, marketing of products and changing trends of marketing global scenario	(03 Days) 16-03-2021 to 18-03-2021	06 Students from M.B.A background from NRI Institute of Technology
Webinar on "Understanding Stock Market- Myths & Facts"	The webinar aimed to increase awareness amongst participants on how to effectively manage your savings by investing in stock market and other available investment options	(01 Day) 24-01-2021	45 Students from M.B.A background from NRI Institute of Technology
Online Meeting on Establishment of Entrepreneurship, Innovation and Start-Up Centre in the Institutions	Online workshop to create awareness to all the EISC Coordinators & Directors on the functioning of EISCs' and the various programmes to be taken up by the centers and organizational structure to be maintained in the EISCs' with Directors & Expert panels	01 Day (06-01-2021)	ESIC Director from NRI Institute of Technology
Online workshop on Rural Entrepreneurship Development Cell (REDC)	To create awareness about Functionality of Rural Entrepreneurship Development Cell, preparation and Implementation of Business Plan; Strengthening the way for Business Plan Competitions	01 Day (25-11-2020)	20 Students from M.B.A background from NRI Institute of Technology
Webinar on Entrepreneurship Idea Evaluation and Marketing Strategies	To motivate and create awareness about the Idea evaluation and various marketing strategies	(02 Days) 27-06-2020 to 28-06-2020	29 Participants from Science &Technology and MBA background from various

Entrepreneurial Leadership Workshop in collaboration with i2E, APSSDC	To create awareness among the students about the skill set required to become an Entrepreneur	01 Day (20-05-2019)	05 Students & Faculty from Science & Technology background from NRI Institute of Technology
Entrepreneurship Development by working on Startup Idea – Internship	To create awareness about phases from idea generation to setting up a startup	1 Month (14-05-2019 to 14-06-2019)	01 Student from Science & Technology background from NRI Institute of Technology
Briefing Session to nurture and encourage Entrepreneurship culture	To mold the direction of thinking about Entrepreneurship and creation of opportunities as a career option.	01 Day (26-03-2019)	01 EDC Coordinator
Entrepreneurship Awareness Camp	To create awareness among the students about various facts of entrepreneurship as an alternative career option with technical factors involved.	03 Days (14-03-2019 to 16-03-2019)	86 Students from Science & Technology background from NRI Institute of Technology
Entrepreneurship Awareness Camp	To create awareness among the students about various facts of entrepreneurship as an alternative career option with technical factors involved.	03 Days (11-03-2019 to 13-03-2019)	75 Students from Science & Technology background from NRI Institute of Technology
Market Makers Contest	Pitching Business/Start up Ideas	01 day (08-03-2019)	18 Students from Science & Technology background from NRI Institute of Technology
Entrepreneurship Awareness Camp	To create awareness among the students about various facts of entrepreneurship as an alternative career option with technical factors involved.	03 Days (26-02-2019 to 28-02-2019)	79 Students from Science & Technology background from NRI Institute of

Inspirational Speech	Interaction with Successful Entrepreneurs	01 Day (02-08-2018)	28 Students from Science & Technology background from NRI Institute of Technology
A.Y: 2017 – 2018			
iB Hubs Boot Camp	Awareness about various facts of entrepreneurship as an alternative career option.	02 Days (25-02-2018 to 26-02-2018)	32 Students from Science & Technology background from NRI Institute of Technology
Inspirational Speech	Interaction with Successful Entrepreneurs	01 Day (17-07-2017)	266 Students from Science & Technology background from NRI Institute of Technology
A.Y: 2016 – 2017			
Developing Entrepreneurial Mindset	Awareness about various facts of entrepreneurship as an alternative career option.	01 Day (28-01-2017)	296 Students from Science & Technology background from NRI Institute of Technology
Make in India - Paper presentation Contest	Paper on Innovative startup idea	01 Day (12-11-2016)	05 Students from Science & Technology background
Entrepreneurship Skill Fest-2k16	Pitching Business plan	01 Day (15-07-2016)	01 Student from Science & Technology background.
A.Y: 2015 – 2016			
Startup India Workshop	Awareness about Entrepreneurship Skills	01 Day (27-02-2016)	125 Students from Science & Technology background.
Automobile Training Program	Training on Hybrid Electric Vehicle	03 Days (18-02-2016	01 Student from Science &

Some photographs showing the Activities of the Entrepreneurship Development Cell – E.P.I.C& I.I.C at NRIIT

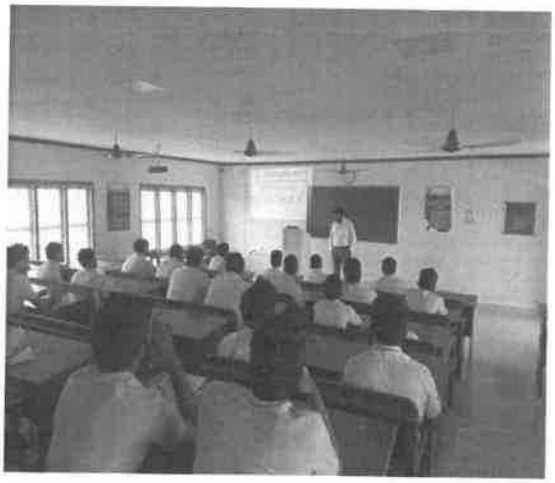
Entrepreneurship Awareness Camp—14-03-2019 to 16-03-2019

Entrepreneurship Awareness Camp—11-03-2019 to 13-03-2019

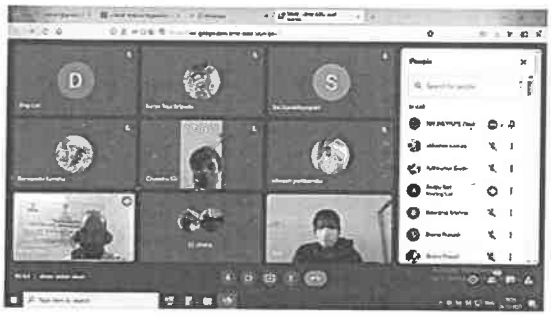
Market Makers—08-03-2019


Developing Entrepreneurial Mindset—15-12-2018


Venture Development Center—04-12-2018

Inspirational Speech—02-08-2018



E-NLAP - 26-11-2021

CHUNAUTI—21-07-2022

Ministry of Education
Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL
(Ministry of Education Initiative)

AICTE

CERTIFICATE

Institution's Innovation Council (IIC) established at

NRI Institute of Technology, Vijayawada

had undertaken various activities prescribed by Innovation Cell, Ministry of Education, Govt. of India to promote Innovation and Start-up in campus during the IIC calendar year 2021-22.

Abhay Jere

Dr. Abhay Jere
Chief Innovation Officer
MOE, Innovation Cell

Dipan Sahu

Mr. Dipan Sahu
Assistant Innovation Director
MOE, Innovation Cell

Certificate No : 2395

Issued On : 2022-11-17

Ministry of Education
Government of India

MoE's INNOVATION CELL
(GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL
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Dr. Abhay Jere
Chief Innovation Officer
MOE, Innovation Cell

Mr. Dipan Sahu
Assistant Innovation Director
MOE, Innovation Cell

Certificate No : 2395

Issued On : 2023-11-16

NRI INSTITUTE OF TECHNOLOGY
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Pothavarappadu (V), Agiripalli (M), Eluru District, A.P., India, Pin: 521 212
URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444

Ref: NRIIT/Circulars/NRIA20/Community service project Date: 23-09-2023

CIRCULAR

Sub : Guidelines for Implementation Of Community Service Project - NRIA20 Regulations– Reg

1. Every student should work **a minimum of 180 hours** for the Community Service Project during the summer vacation.
2. Each class/section should be **assigned with a mentor**.
3. The mentor should be **a faculty member**. Incentive could be given to the faculty mentors in terms of Academic Performance Indicators (API) scores. Or could even be made a compulsory in the service conditions laid down at the time of appointment.
4. 4 Credits to be allocated for **Community Service Project within the Choice Based Credit System (CBCS)**.
5. The **180 hours of Community Service Project could be done in different areas**.
6. Specific Departments **could concentrate on their major areas of concern**. For example, Dept. of Computer Science can take up activities related to Computer Literacy to different sections of people like - youth, women, house-wives, etc... Dept. of Zoology or other life sciences departments could concentrate on health awareness, blood groupings, awareness on blood donation or organ donation, etc. Dept. of Mathematics and Statistics could dwell upon empowering the youth with analytical skills, Dept. of Commerce could create awareness on GST or Income Tax Returns or other taxes or consumerism.
7. Sky will be the limit for organizing **different programmes**, provided the faculties are sufficiently motivated.
8. A log book has to be maintained by each of the student, **where the activities undertaken/involved to be recorded**.
9. The log book has to be countersigned by the **concerned mentor/faculty incharge**.
10. Evaluation to be done based on the active participation of the student and grade could **be awarded by the mentor/faculty member**.
11. The final evaluation to be reflected in the **grade memo of the student**.
12. The Community Service Project should be **different from the regular programmes of NSS/NCC/Green Corps/Red Ribbon Club**, etc.
13. Minor project report should be submitted by each student. **An internal Viva shall also be conducted by a committee constituted by the principal of the college**.
14. Award of marks shall be made **as per the guidelines of Internship/ apprentice/ on the job training.**

TIME FRAME FOR THE COMMUNITY SERVICE PROJECT

Duration: 8 weeks

Schedule:

Socio-Economic Survey of the Village/Habitation (Two weeks): A group of students under the guidance of faculty mentors conduct a Socioeconomic Survey of the Village/habitation. They will interact with people to acquire basic knowledge on the project chosen for study and conduct the survey using a structured questionnaire.

Community awareness campaign (one week): The students group takes up community awareness campaigns based on the above survey conducted by identifying the problems or vulnerable issues. They may also conduct house to house campaign on socially relevant theme. Ex: Government welfare programs, health care, consumer protection, food adulteration, digital transactions, information sources, etc.

Main Project (4 weeks): A group of students choose a topic related to their subject area and conduct a Project which includes, Data collection, interviews, internship in any select unit or department.

Report preparation (one week): The student should submit a project report duly signed by the mentor.

ASSESSMENT METHODOLOGY FOR COMMUNITY SERVICE PROJECT

Learning outcomes:

- To facilitate an understanding of the issues that confronts the vulnerable / marginalized sections of the society.
- To initiate team processes with the student groups for societal change.
- To provide students an opportunity to familiarize themselves with urban / rural community they live in.
- To enable students to engage in the development of the community.
- To plan activities based on the focused groups.\
- To know the ways of transforming the society through systematic programme implementation.

The following is the evaluation methodology for awarding marks/grades.

There will be only internal evaluation for this Community Service Project. Each faculty member is to be assigned with 10 t0 15 students depending upon availability of the faculty members. The faculty member will act as a faculty-mentor for the group and is in-charge for the learning activities of the students and also for the comprehensive and continuous assessment of the students.

The assessment is to be **conducted for 100 marks**. The number of credits assigned is 4. Later as per the present practice the marks are converted into grades and grade points to include finally in the SGPA and CGPA.

The weightings shall be:

Project Log 20%
Project Implementation 30%
Project report 25%,
Presentation 25%

Each student is required to maintain an individual logbook, where he/she is supposed to record day to day activities. The project log is assessed on an individual basis, thus allowing for individual members within groups to be

assessed this way. The assessment will take into consideration the individual student's involvement in the assigned work.

While grading the student's performance, using the student's project log, the following should be taken into account -

a. The individual student's effort and commitment.
b. The originality and quality of the work produced by the individual student.
c. The student's integration and co-operation with the work assigned.
d. The completeness of the logbook.

The assessment for the ***Community Service Project implementation*** shall include the following components and based on the entries of Project Log and Project Report:

a. Orientation to the community development
b. Conducting a baseline assessment of development needs
c. Number and Quality of Awareness Programmes organised on beneficiary programmes and improvement in quality of life, environment and social consciousness, motivation and leadership, personality development, etc.
d. Number and Quality of Intervention Programmes (Prevention or promotion programs that aim to promote behavioural change in defined community contexts to address social problems) organised.
e. Follow-up Programmes suggested (Referral Services, Bringing Community Participation)
f. Developing short and mid-term action plans in consultation with local leadership and local government officers.

The **Project Report** shall be prepared as per the guidelines given in the Model Project Report.

The **Project Presentation** is to be made by the student after he/she reports back to the College. The components for assessment are –

a. assessing the involvement in the project
b. presentation skills
c. final outcome of the project as evinced by the student.

Example: Name of the Student:	X. YY ZZZ	
Class & Year of Study	II B.Tech. 2021 - 2022	
Registered Number	20KN1A04XX	
Assessment Component	**Max Marks**	**Marks Secured**
1. Project Log	20	15
2. Project Implementation	30	20
3. Project Report	25	20
4. Presentation	25	20
TOTAL OUT OF 100	**100**	**75**

23/9/23

CONTROLLER OF EXAMINATIONS

CONTROLLER OF EXAMINATIONS
NRI INSTITUTE OF TECHNOLOGY
AUTONOMOUS

PRINCIPAL

PRINCIPAL
NRI Institute of Technology
Pothavarappadu (V), Agiripalli (M).

A Community Service Project Report On

AWARNESS ON CYBERCRIMES

Submitted to

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY, KAKINADA

For Partial Fulfilment of Award of the Degree of

BACHELOR OF TECHNOLOGY IN

COMPUTER SCIENCE AND ENGINEERING(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

Submitted By

SOHAIL MOHAMMED (20KN1A4238)

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING (ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

NRI INSTITUTE OF TECHNOLOGY

Autonomous

(Approved by AICTE, Permanently Affiliated to JNTUK, Kakinada) Accredited by NBA(CSE, ECE & EEE), Accredited by NAAC with 'A' Grade, ISO 9001: 2015 Certified Institution

Pothavarappadu (V), (Via) Nunna, Agiripalli (M), Krishna Dist., PIN: 521212, A.P, India.

2023-2024

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Model Program Book

COMMUNITY SERVICE PROJECT

Designed & Developed by

ANDHRA PRADESH

STATE COUNCIL OF HIGHER EDUCATION

(A STATUTORY BODY OF GOVERNMENT OF ANDHRA PRADESH)

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PROGRAM BOOK
FOR
COMMUNITY SERVICE PROJECT

Name of the Student: SOHAIL MOHAMMED

Name of the College: NRI INSTITUTE OF TECHNOLOGY

Registration Number: 20KN1A4238

Period of CSP: 8 WEEKS From: 19-06-2023 To: 13-08-2023

Name and Adress of the Community/ Habitation: KRISHNA DISTRICT

2020 - 2024
YEAR

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Community Service Project Report

Submitted in accordance with the requirement for the degree of Bachelor of Technology

Name of the College: NRI INSTITUTE OF TECHNOLOGY

Department: COMPUTER SCIENCE AND ENGINEERING (AI&ML)

Name of the Faculty Guide: S. SRIDHAR BABU

Duration of the CSP: 8 WEEKS From: 19-06-2023 To: 13-08-2023

Name of the Student: SOHAIL MOHAMMED

Program of Study: 4 - 1

Year of Study: 2020-2024

Register Number: 20KN1A4238

Date of Submission:

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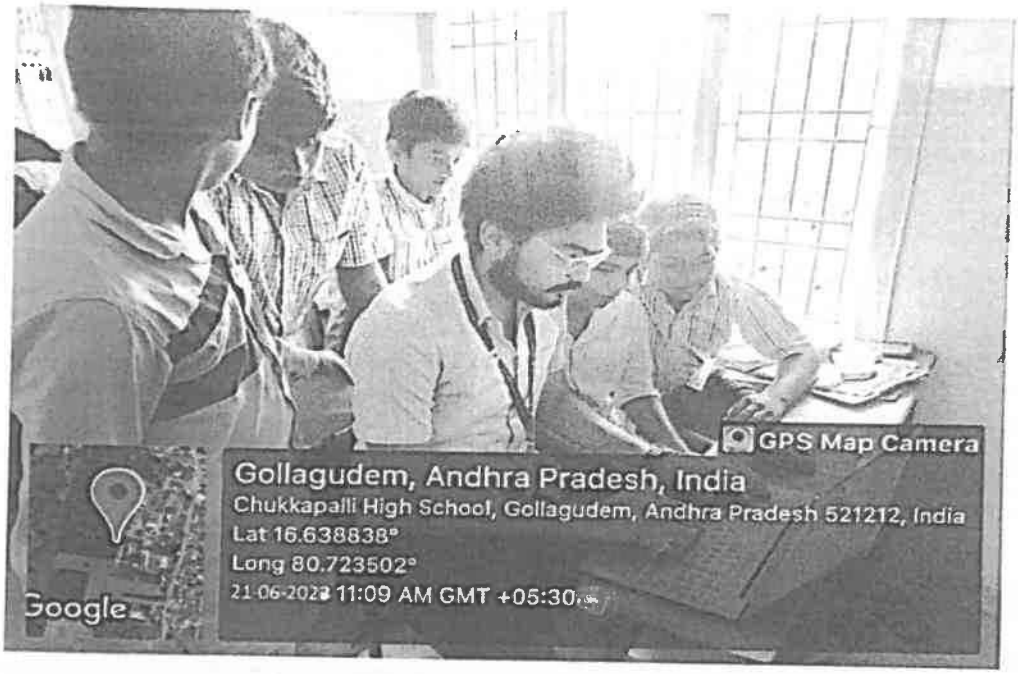
PICTURES



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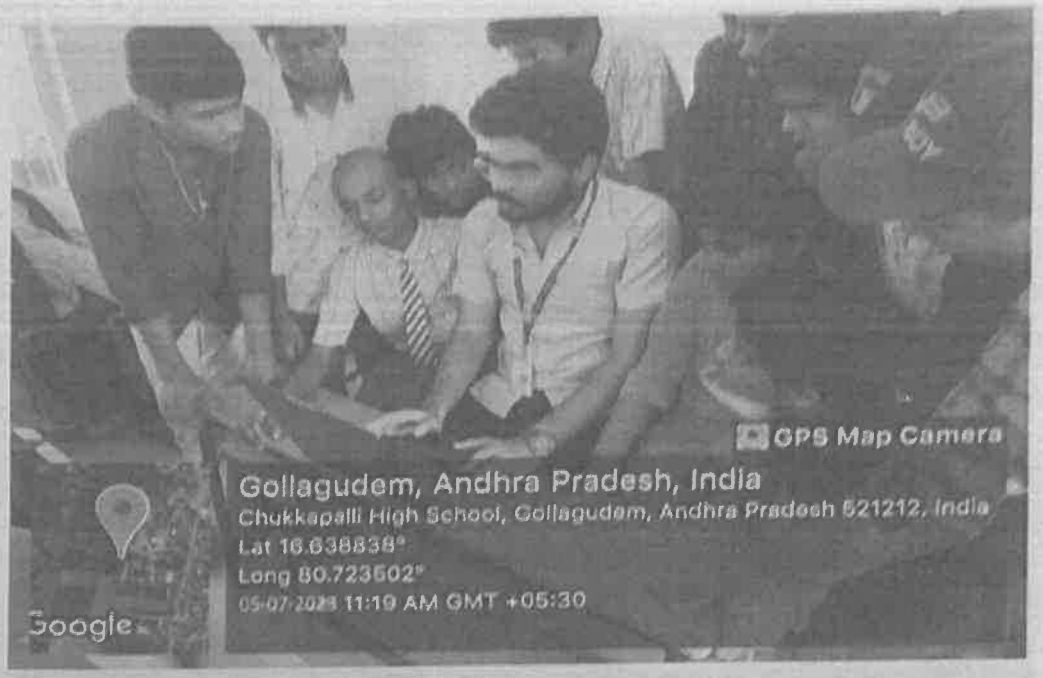

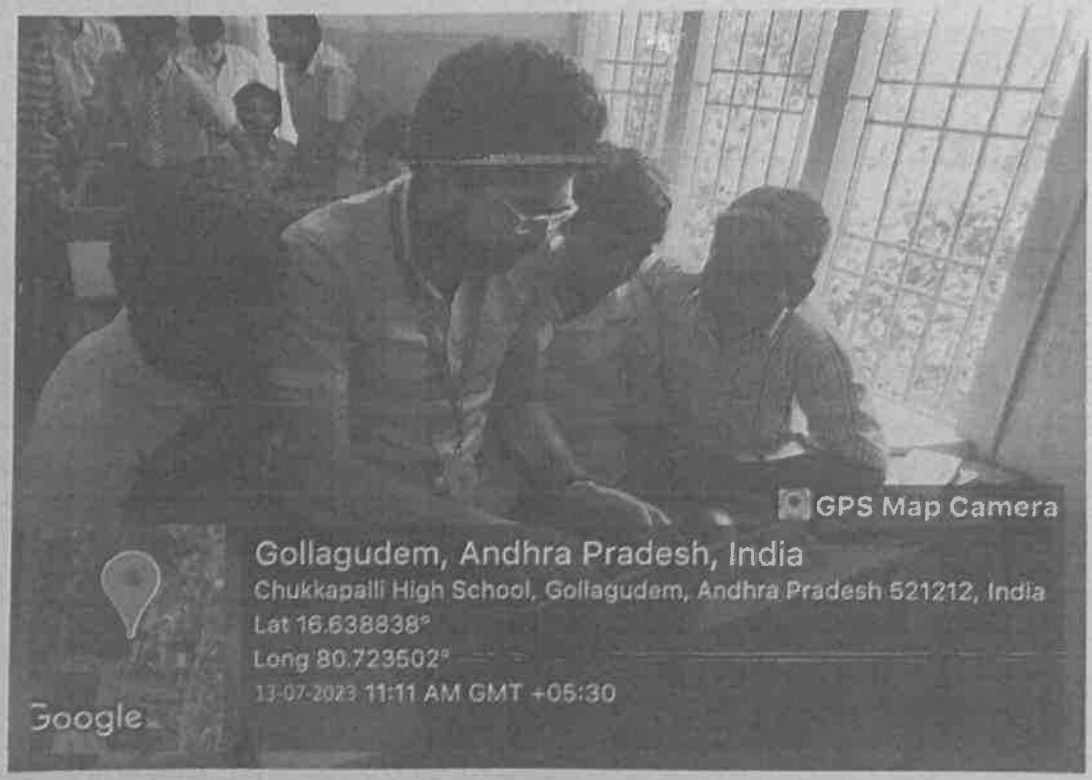

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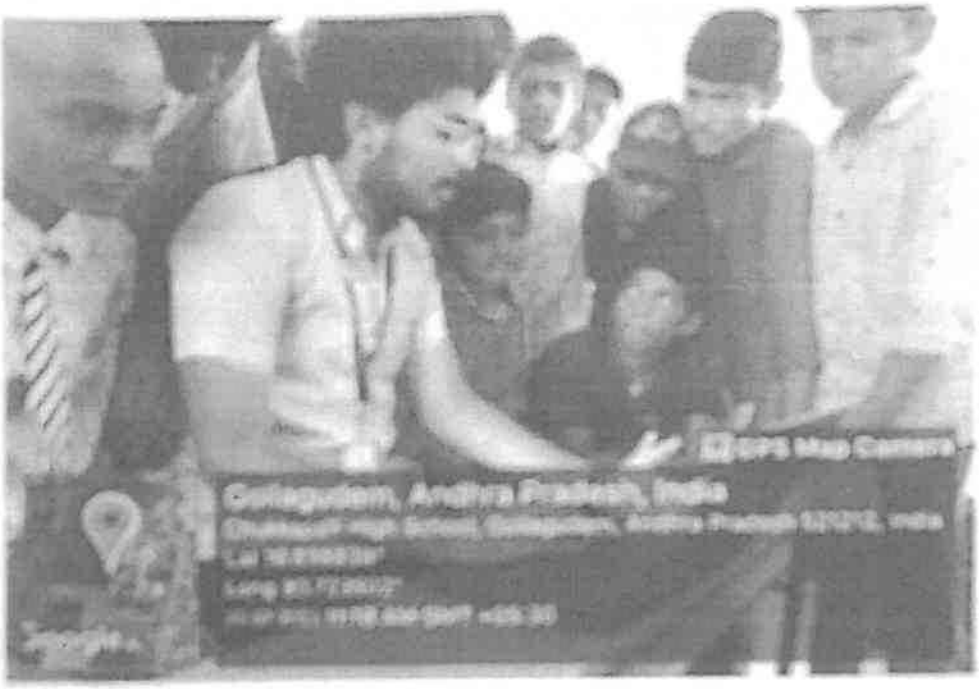

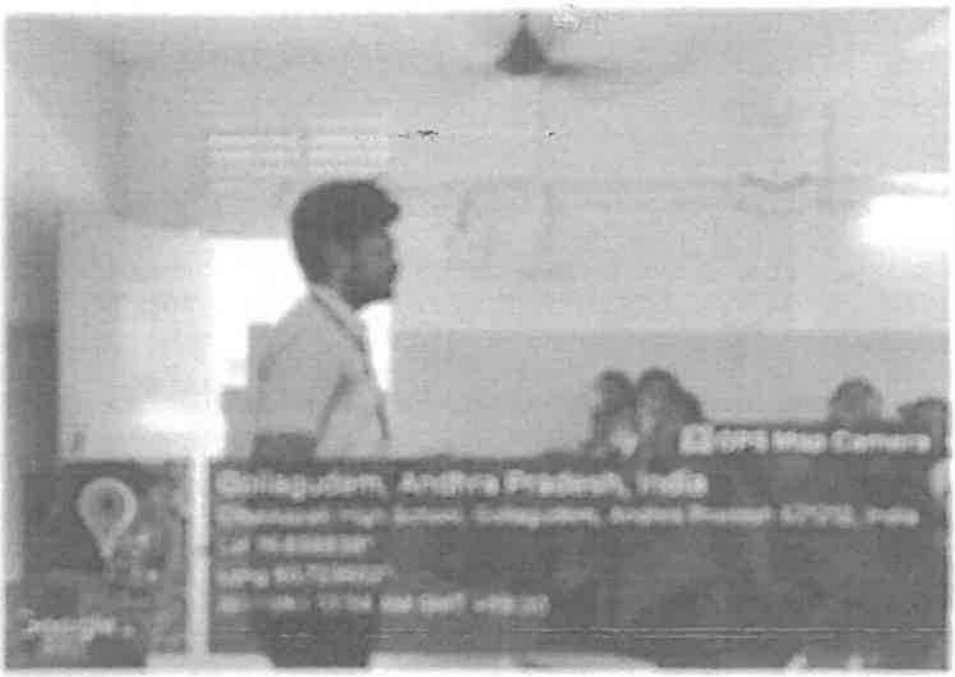

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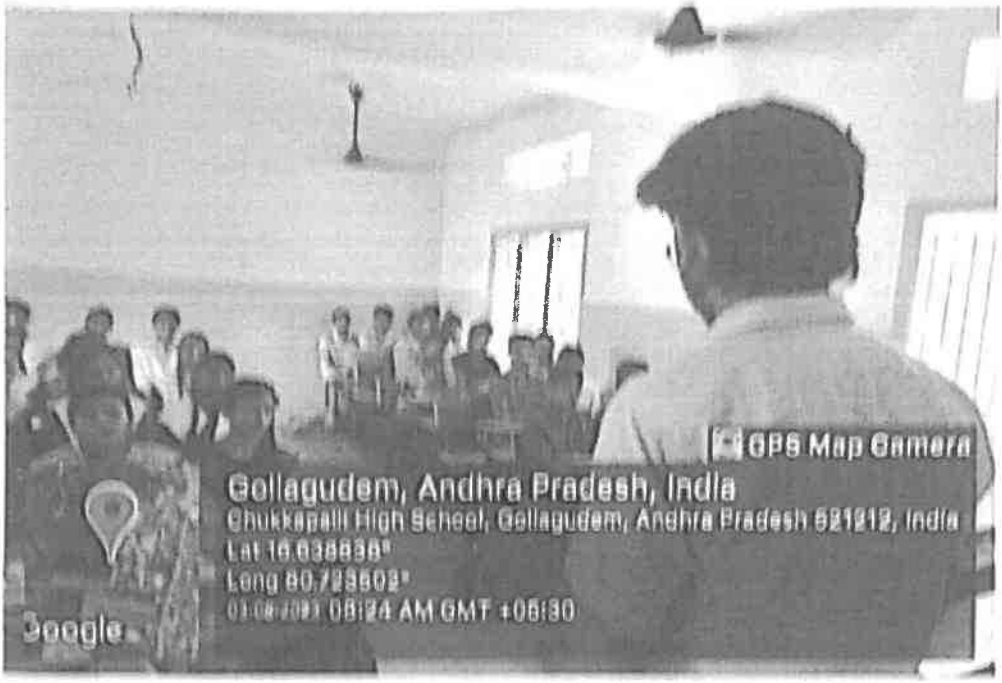

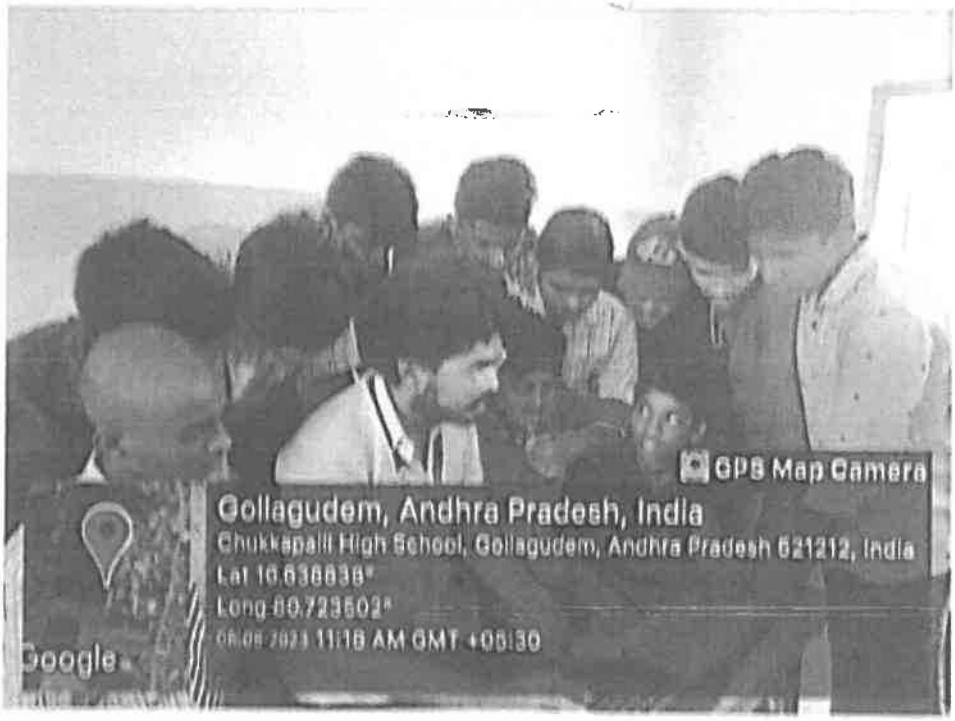

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Internal Evaluation for the Community Service Project

Objectives:

- To facilitate an understanding of the issues that confront the vulnerable / marginalized sectionsof society.
- To initiate team processes with the student groups for societal change.
- To provide students an opportunity to familiarize themselves with the urbanrural community they live in.
- To enable students to engage in the development of the community.
- To plan activities based on the focused groups.
- To know the ways of transforming society through systematic program implementation.

Assessment Model:

- There shall only be internal evaluation.
- The Faculty Guide assigned is in-charge of the learning activities of the students and for the comprehensive and continuous assessment of the students.
- The assessment is to be conducted for 100 marks.
- The number of credits assigned is 4. Later the marks shall be converted into grades and grade pointsto include finally in the SGPA and CGPA.
- The weightings shall be:
    - Activity Log 20 marks
    - Community Service Project Implementation 30 marks
    - Mini Project Work 25 marks
    - Oral Presentation 25 marks
- Activity Log is the record of the day-to-day activities. The Activity Log is assessed on an individual basis, thus allowing for individual members within groups to be assessed this way. The assessment willtake into consideration the individual student's involvement in the assigned work.

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- While evaluating the student's Activity Log, the following shall beconsidered -

  a) The individual student's effort and commitment
  b) The originality and quality of the work produced by the individual student.
  c) The student's integration and co-operation with the work assigned
  d) The completeness of the Activity Log.

- The assessment for the Community Service Project implementation shall include the followingcomponents and based on Weekly Reports and Outcomes Description.

Outcomes Description

a) Details of the Socio-Economic Survey of the village/habitation.
b) Problems identified.
c) Community Awareness Programs organized.
d) Suggested Short-Term and Long-Term Action Plan.

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URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 8333882444

NSS Summary Report

Sl.No	Academic Year	Total No. of events Conducted	Total No. of Students Participated
1	2022-23	21	2064
2	2021-22	19	1448
3	2020-21	14	1363
4	2019-20	12	1232
5	2018-19	17	2584

K. Bhaskar Sai
NSS coordinator

Principal

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Intellectual Property Rights Cell

(IPR Cell)

Policy document

NRI INSTITUTE OF TECHNOLOGY

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Pothavarappadu (V), Agiripalli (M), Eluru District, A.P., India, Pin: 521 212.

URL: www.nriit.edu.in, email: principal@nriit.edu.in, Mobile: + 91 833388244

Contents

1. PREAMBLE:

NRI Institute of Technology is constantly endeavouring to train high- quality scientific and technical man- power and provide solutions to a variety of challenging technological problems that may arise in different fields, through its well qualified faculty and highly skilled supporting staff, with the goal of becoming one of the leading centres of teaching, research and extension in Engineering and Technology and totally committed to excel in every sphere of its activity. It has been constantly encouraging scholarship, research, academic excellence and innovation.

NRIIT recognizes that intangible assets like inventions, copy right, know-how, designs and other creative and innovative products generated during the scientific and intellectual pursuits of its faculty and its students provide a competitive edge to the Institute. It, therefore, has formulated its intellectual property policy to provide guidance to its faculty, staff, students, research scholars and outside agencies on the practices and rules of the Institute regarding intellectual property rights (IPR) and obligations which include its ownership, commercial exploitation, technology-transfer and end confidentiality requirements.

It is to be stressed that this IPR policy is to be treated more as a guideline than a strict rule in the legal sense in view of the evolutionary scenario in the nations IPR policy and is, therefore, subject to changes if a need arises. This document is prepared to give a wholesome picture of Intellectual Property (IP) management at NRIIT.

2. PURPOSE:

The purpose of the IPR cell is to facilitate, encourage, promote and safeguard scientific inquiry, research pursuits and the academic freedom of its faculty, researchers and students. IPR cell conducts activities to provide a clear understanding of the rights and responsibilities of the faculty, staff, and students to protect their IP's generated through research work. IPR cell is working towards creating an innovative culture which fosters the creation of IP and development of IPR. NRI Institute of Technology has a IPR management policy and has established procedure for converting the knowledge generated to wealth. The IPR cell ensures the speedy processing and filling of applications for patents, designs, copyrights etc.

3. OBJECTIVES OF IPR CELL:

- Conducting awareness programs for the specific needs of teachers, students, inventors, creators and entrepreneurs.
- Providing awareness to teachers, researchers and students about to protect the reinventions before publishing.
- Encouraging high quality and cost-effective innovation and research leading to prospective intellectual property.
- Identifying specialized areas and specific sectors to focus on innovation and research for generating Intellectual Property.
- Creating culture and facilities that encourage the institution for new knowledge generation and its applications through IPR.
- Providing continuous training to staff of the IPR Cell to update them of developments in procedures, substantive laws, and technologies.

4. ESTABLISHMENT OF IPR CELL AT NRIIT:

The Intellectual Property Rights (IPR) Cell of the Institution is a subordinate body under IIC (Institution Innovative Council). The Intellectual Property Rights (IPR) Cell of the Institution was established in the year 2022 for the purpose of creating awareness on IPR and conducting programs on patents, trademarks, copyrights and other aspects of IPR for faculty and students to gain expertise and apply it in their fields. Faculty are encouraged to prioritize consultancy services as part of the transfer of knowledge and skills.

The members of IPR Cell:

S.NO	Name of the Faculty	Designation	Department
1	Dr.C.Naga Bhaskar	Chairman	Principal
2	Dr.P.Rama Koteswara Rao	IIC president	Convener
3	Dr.V.Ramesh Babu	Coordinator	E.C.E
4	Dr.I.V.Kasi Viswanath	Member	FED
5	Mr.Syed Usman	Member	E.C.E
6	Mr.CH.V.Murali Krishna	Member	C.S.E.
7	Mrs.P.Manasa	Member	M.B.A
8	Mr.E.Siva Krishna	Member	M.E.
9	Mr.P.Srinivas	Member	C.E.
10	Mr.B.Naga Raju	Member	IT
11	Mr.I.Prasanna Kumar	Member	E.E.E

5. DEFINITION OF IPR:

Intellectual Property (IP) is an intangible knowledge product and shall mean and include all results, conclusions, deductions, inventions, ideas, improvements, discoveries, enhancements, solutions, processes, modifications, know-how, data and information of every kind and description conceived, generated, made, or reduced to practice as the case may be, designs, software programmes, genetically engineered microorganisms, business models and copyrightable work -resulting from the intellectual output of the faculty, staff, students, research scholars and other employees of the Institute IP is, thus, an outcome of the Institute supported research or sponsored research, industrial consulting or other forms of joint research and development work.

Intellectual Property Rights (IPR) denotes the specific legal right to hold and exercise Patents, Trademarks, Copyrights, Industrial Designs, etc. IP confers of exclusive rights in relation to the particular form in which ideas/information are expressed or manifested in the following manner.

1. New and useful scientific and technical advancements in the form of innovations, inventions, products and processes, computer hardware and software, materials, biological varieties and others that are patentable.
2. Industrial and architectural designs, models, drawings, creative, artistic and literary works, teaching resource materials, generated records of research including thesis, dissertations, and others which are copyrightable like Trademarks, service marks, logos, etc

6. KEY DEFINITIONS OF IPR:

- **Patent:** The exclusive right granted for a particular invention, which may be a product or a process for providing a new way of execution or bring a new technical solution to a problem.
- **Copyright:** An exclusive right given to the author of the original literary, architectural, dramatic, musical and artistic works, cinematograph films, and sound recordings.
- **Trade mark:** A trademark is a recognizable sign, phrase, or symbol that denotes a product or service and legally differentiates it from all others of its kind.

7. TECHNOLOGY TRANSFER:

i). The Institute shall take all necessary steps for the commercial exploitation of the IPR obtained either in its name or jointly with other agencies, to the fullest possible extent that is reasonably practicable, without undue delay. The marketing of the IPR will be done under the agreements involving technology transfer, licensing (exclusive or non- exclusive) and revenue sharing models.

ii). The Institute shall try to identify the potential licensee(s) for commercial exploitation of the IP to which it has absolute ownership. In case of joint ownership, the Institute will offer the first right to commercially exploit the joint IP, whether or not the same has been formally protected by patent(s). The licensing in this case would involve payment of a lump sum in the beginning as technology transfer fee and payment of royalty from the first date of the commercial exploitation for mutually agreed period. If the collaborator refuses to exercise this option, the Institute will proceed to commercialize the IP in a manner that it deems fit.

iii). In the event of the other collaborating organization/industry not undertaking the commercial exploitation within a period of two years from the first date of development of technology, the Institute reserves the right to license the use of IP to a third party.

iv). To promote and encourage entrepreneurial activities by its staff, the Institute may reassign, under an agreement, its ownership of an intellectual property to the inventor(s) or creator(s) of the property, who opt to market, protect and license it on their own with minimal involvement of the Institute. The fees to be paid to the Institute by the assignee consist of all patenting and licensing expenses and appropriate amount of royalties, equity or other value received by the inventor(s) or creator(s).

v). The Institute would endeavour to exploit the IP either by itself or by commissioning a Technology Management Agency to bring to fruition the IP produced by its personnel.

8. REVENUE SHARING:

A). When NRIIT facilities / funds are used substantially or when IPR is developed as a part of curriculum/ academic activity, IPR is to be jointly owned by inventors and the NRIIT.

i. Inventors and NRIIT could together license the product / IPR to any commercial organization, with inventors having the primary say. License fees could be either / or a mix of 1. Upfront fees or one-time technology transfer fees 2. Royalty as a percentage of sale-price 3. Shares in the company licensing the product.

ii. NRIIT may not be allowed to hold the equity as per the current statute, so SPV may be requested to hold equity on their behalf.

iii. If one or more of the inventors wish to incubate a company and license the product to this company, the royalties would be no more than 4% of sale price, preferably 1 to 2%, unless it is pure software product. If it is shares in the company, shares will again be 1% to 4%. For a pure software product licensing, there may be a revenue sharing to be mutually decided between NRIIT and the incubated company.

B). On the other hand, if product/ IPR is developed by innovators not using any NRIIT facilities, outside office hours (for staff and faculty) or not as a part of curriculum by student, then product/ IPR will be entirely owned by inventors in proportion to the contributions made by them. In this case, inventors can decide to license the technology to third parties or use the technology the way they deem fit.

C). If there is a dispute in ownership, a minimum five-member committee consisting of two faculty members (having developed sufficient IPR and translated to commercialization), two of the NRIIT's alumni/ industry experts (having experience in technology commercialization) and one legal advisor with experience in IPR, will examine the issue after meeting the E.P.I.C - NRI Institute of Technology .

D). NRIIT IPR cell or incubation center will only be a coordinator and facilitator for providing services to faculty, staff and students. It will have no say on how the invention is carried out, how it is patented or how it is to be licensed. If NRIIT is to pay for patent filing, it can have a committee which can examine whether the IPR is worth patenting. The committee should consist of faculty who have experience and excelled

in technology translation. If inventors are using their own funds or non-institute funds, then they alone should have a say in patenting.

E). All NRIIT's decision-making body with respect to incubation / IPR / technology-licensing will consist of faculty and experts who have excelled in technology translation. Other faculty in the department / institute will have no say, including heads of department, heads of institutes, deans or registrars.

9. INFRINGEMENTS, DAMAGES, LIABILITY AND INDEMNITY INSURANCE:

As a matter of policy, the Institute, in any contract between the licensee and the Institute, seek indemnity from any legal proceedings including but not limited to manufacturing defects, production problems, design guarantee, up gradation and debugging obligation. The Institute personnel shall have an indemnity clause built-into the agreements with licensee(s) while transferring technology or copyrighted material to licensees. The Institute shall retain the right to engage or not in any litigation concerning patents and license infringements.

10. CONFLICT OF INTEREST:

The inventor(s) are required to disclose any conflict of interest or potential conflict of interest, if the inventor (s) and/or their immediate family have a stake in a licensee or potential licensee company, then they are required to disclose the stake they and/or their immediate family have in the company. A license or an assignment of rights for a patent to a company in which the inventor(s) have a stake shall be subject to the approval of the IPR Cell.

11. DISPUTE RESOLUTION:

In case of any disputes between the Institute and the inventors regarding the implementation of the IP policy, the aggrieved party may appeal to the Head of the Institute. Efforts shall be made to address the concerns of the aggrieved party. The Institute decision in this regard would be final and binding.

12. APPLICATION OF POLICY:

This policy shall be deemed a part of the conditions of employment for every employee of the institute and a part of the conditions of enrolment and attendance of

students at the institute. Further, the College reserves the right to amend the IPR Policy as and when such a need arises/deemed fit. All potential creators who participate in a sponsored research project and/or make use of institute-sponsored resources shall abide by this policy and shall accept the principles of ownership of intellectual property as stated in this policy unless an exception is approved in writing by the institute.

a).Right to Regulate Policy: The IPR Cell shall have the responsibility for interpreting the policy, resolving disputes, the application of the policy and recommending changes to the policy from time to time for the approval of the Convener of IPR Cell. The Convener shall consider such changes/ recommendations and take such decision thereon as he/she deems fit. The IPR policy may be reviewed after three years or earlier if a major change in the same takes place at the National Level.

b).Legal Jurisdiction: As a policy, all agreements signed by the institute and dispute(s) arising there from, will be subject to the legal jurisdiction of the Court of Adjudicator at Vijayawada only and shall be governed by the appropriate laws of India.

13. FAQ's on PATENTS AND COPYRIGHT:

1. What is Intellectual Property Right (IPR) IPR is a general term covering patents, registered design, trademarks, copyright, and layout design of integrated circuits, trade secrets, geographical indicators and anti-competitive practices in contractual licenses.

2. What are the legislations covering IPRs in India? Patents:

The Patents Act 1970. It has been amended in 2005

Ref.Link:http://www.ipindia.nic.in/ipr/patent/eVersion_ActRules/sections-index.htm

The Design Act 2000

Ref.Link: http://www.ipindia.nic.in/ipr/design/design_act.

PDF Trademarks:

The Trade and merchandise Marks Act.1999 (amended in 2010)

http://www.ipindia.nic.in/IPActs_Rules/tmrAct/TMRAct1999.htm

Copyright: The Copyright Act, 1957 and Copyright rules 2013

Ref.Link: http://copyright.gov.in/Documents/CopyrightRules1957.pdf

Layout Design of Integrated Circuits: No Legislation exists.

3. Who are responsible for administration of IPRs in thecountry?

Patents, designs and trademarks are under the charge of the Controller General of Patents, Designs and Trademarks which is under the control of department of industrial Development, Ministry of Industry. Copyright is under the care of Ministry of human Resource Development.

4. What is a patent?

A patent is a legal monopoly which is granted for a limited time to the owner of an invention. Patent rights are granted by the state. Merely to have a patent does not give the owner the rights to use or exploit a patented invention: that right may still be affected by other laws such as health and safety regulation, or the food and drugs regulation or even by away, inherited, sold, licensed and can even be abandoned. As it is conferred by the state, it can be revoked by the state, it can be revoked by the state in certain cases even after grant, and world patent.

5. What is the distinction between patented invention and know-how

The law does not require that the information disclosed in the patent specification be sufficient for commercial exploitation of the invention. Thus, a patent usually will not disclose sufficient information for commercialization. Known-how on the other hand, covers all information necessary to commercialize the invention e.g. setting up a production plant. Such information would include for example, details of the production methods, the design drawings etc. It is this known-how developed around an existing patent and commercialized subsequently will be an infringement of the patent unless the patentee had agreed to commercialization on mutually agreed terms.

6. How is an invention interpreted?

To be patentable the invention must not only be novel but must involve an inventive step. An invention involves an inventive step if it is not obvious to a person 'skilled in the art' having regard to any matter which forms part of the state of the art but

disregarding unpublished pending patent applications. Simplicity is not necessarily an objection for securing a patent. The means whereby the object is attained may be perfectly simple and common, yet there may be an inventive step if the inventor has developed a variant which will render more useful results as disclosed.

7. How is the novelty of and invention determined?

The novelty is judged taking into consideration the knowledge available in India and elsewhere in the time of filling the application for a patent. In other words, the invention should not be known anywhere in the world prior to filing of the application for a patent.

8. What are the types of inventions which are not patentable?

a. An invention which is frivolous or which claims anything obviously contrary to well established natural laws e.g. different types of perpetual motion or machines which violate the third law of thermodynamics.

b. An invention the primary or intended use of which be contrary to law or morality or injurious to public health e.g. a process for the preparation of a beverage which involves use of a carcinogenic substance, although the beverage may have higher nourishment value.

c. The mere discovery of a scientific principle of formulation of an abstract theory e.g. Raman Effect.

d. The mere discovery of any new property or new use of a known substance or the mere use of a known process, machine or apparatus unless such a known process results in a new product or employs at least one new reactant.

e. A substance obtained by a mere admixture resulting only in the aggregation of the properties of the components thereof or a process for producing such substance.

f. The mere arrangement or rearrangement or duplication of features of known devices each functioning independently of one another in a known way.

g. A method or process of testing applicable during the process of manufacture for rendering the machine, apparatus or other equipment more efficient.

h. A method of agriculture or horticulture

i. Any process for medicinal, surgical, curative, prophylactic or other treatment of human 'beings, or any process for a similar treatment of animals or plants.

j. Invention relating to atomic energy.

9. When should an application for a patent be filed?

Filing of an application for a patent should be completed at the earliest possible date and should not be delayed until the invention is fully developed for commercial working. An application filed with provisional specification disclosing the essence of the nature of the invention helps to register the priority by the applicant.

Coordinator

(IPR CELL)

Principal

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